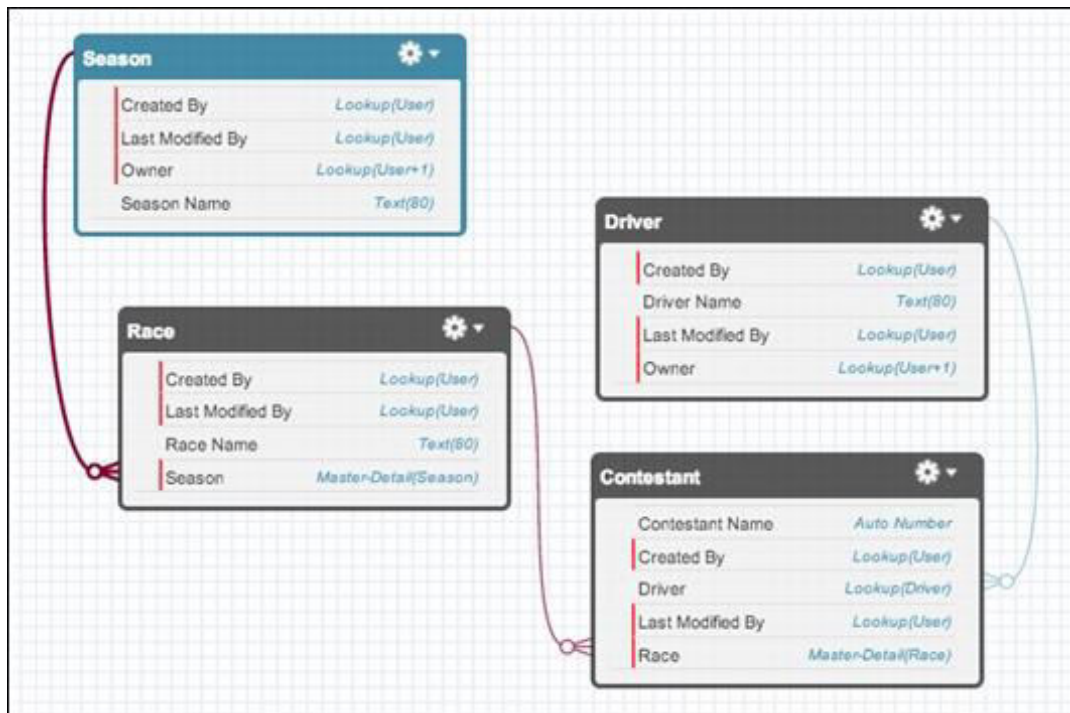


Chapter 1: Building, Publishing, and Supporting Your Application



Packages

Help for this Page ?

Developer Settings

Edit

Your current developer settings are listed below. These settings determine the types of packages you can create and upload. To change these settings, click Edit.

Package Types Allowed	Unmanaged Only	Your organization is configured to create unmanaged packages only. Unmanaged packages are not upgradeable.
Managed Package	None	Unable to select a package to be managed because your organization is configured to create unmanaged packages only. To create a managed package, change your developer settings.
Namespace Prefix	None	Unable to specify a namespace prefix for this organization because it is configured to create unmanaged packages only. To create a managed package, change your developer settings. What is this?

Packages

Help for this Page ?


Developer Settings

Edit

Your current developer settings are listed below. These settings determine the types of packages you can create and upload. To change these settings, click Edit.

Package Types Allowed	Managed and Unmanaged	Your organization is configured to contain one managed package and an unlimited number of unmanaged packages. Only managed packages can be upgraded.
Managed Package	None	You have not yet selected a package to be managed.
Namespace Prefix	force	Salesforce.com prepends this prefix (along with two underscores, "___") to components that need to be unique such as custom objects and fields.

Packages

[Help for this Page](#) 

Developer Settings

Your current developer settings are listed below. These settings determine the types of packages you can create and upload.


Package Types Allowed	Managed and Unmanaged	Your organization is configured to contain one managed package and an unlimited number of unmanaged packages. Only managed packages can be upgraded.
Managed Package	FormulaForce	You have selected the following as the only managed package for this salesforce.com organization: FormulaForce
Namespace Prefix	fforce	Salesforce.com prepends this prefix (along with two underscores, "__") to components that need to be unique such as custom objects and fields.

Packages

A package contains components such as apps, objects, reports, or email templates. These packages can be uploaded to share with others privately or posted on Force.com AppExchange to share publicly. The list below displays all packages created by your organization. To create a new package, click New.


Packages

[New](#)

Action	Package Name	Description
Edit	 FormulaForce	A native Force.com application for tracking Formula1 racing!

Package

FormulaForce

[Help for this Page](#) 

[« Back to Package List](#)

Package Detail

[Edit](#) [Delete](#) [Upload](#)

Package Name	FormulaForce	Type	Managed
Language	English	API Access	Unrestricted [Enable Restrictions]
Notify on Apex Error		Post Install Script	
Description	A native Force.com application for tracking Formula1 racing!	Uninstall Script	
Created By	Andrew Fawcett , 19/01/2014 23:54	Last Modified By	Andrew Fawcett , 19/01/2014 23:54

[Components](#) [Versions](#) [Patch Organizations](#) [Remote Access](#)

[Add](#) [View Dependencies](#) [View Deleted Components](#)

Action	Name	Parent Object	Type	Included By	Available in Versions	Owned By
Remove	Contestant		Custom Object	User Selected		
	Contestant Layout	Contestant	Page Layout	Contestant		
Remove	Driver		Custom Object	User Selected		
	Driver	Contestant	Custom Field	Contestant		
	Driver Layout	Driver	Page Layout	Driver		
	Race	Contestant	Custom Field	Contestant		
Remove	Race		Custom Object	User Selected		
	Race Layout	Race	Page Layout	Race		
Remove	Season		Custom Object	User Selected		
	Season	Race	Custom Field	Race		
	Season Layout	Season	Page Layout	Season		

Show Dependencies

No Dependency Information for Package FormulaForce

[« Back to Package: FormulaForce](#)


There are no dependencies.

Upload Package

[Help for this Page](#) 

Please provide details about this package before upload. These settings determine what requirements must be met in order to install this package.

Package Details


Version Name  Example: Spring 2014

Version Number Example: 1.2

This version number will be used until the version is uploaded as Managed - Released


Release Type

- Managed - Released:** use when you are ready to publish to Force.com AppExchange. **Note: you will not be able to edit some properties after release. [Tell me more](#)**
- Managed - Beta:** use to test and validate this package internally and with selected customers before release. **Note: this type of package can only be installed in Developer Edition, sandbox organizations, or testing organizations for registered partners.**

Package Version [Help for this Page](#) 

FormulaForce, Version 1.0

[« Back to Package](#)

 **Upload Complete**
Your package is now available for install using the installation URL below. To publish on [AppExchange](#), log on with your publisher login to access your public listings.

Version Detail

Package Name	FormulaForce	Uploaded By	Book Packaging , 22/06/2014 08:48
Version Name	1.0	Post Install Script	
Version Number	1.0 (Released)	Uninstall Script	
Description		Password Protected	<input type="checkbox"/> [Change Password]
Installation URL	https://login.salesforce.com/packaging/installPackage.apexp?p0=04t20000000UIUx		

 Partner Alerts

[View All Alerts](#)

- Refresh Trialforce Templates by Winter '17
- Promotional SPIFF for CBU DACH
- LockerService: Browser Security Architecture for the Lightning Platform (Updated)



The banner features the Salesforce Partner Community logo and the text "Featured Groups". Below the banner is a navigation menu with "Home" selected, and "Partner Program", "Partner User Groups", "Products", and "Industries". The main content area is titled "Featured Groups" and contains four cards: a warning sign icon, the Salesforce Partner Community logo, "Official: ISV Central" with a grid of app icons, and "Official: Consulting Central" with a photo of people in a meeting.

[LISTINGS](#) [PACKAGES](#) [TRIAL TEMPLATES](#) [ORGANIZATIONS](#) [COMPANY INFO](#) [ANALYTICS](#)

Listings allow you to sell apps, components, or consulting services on the AppExchange. [Learn More...](#)



All Listings ▾

Sorted by Name ▾

App Listings

[New Listing](#)

Listings · Declarative Lookup Rollup Summaries Tool

[Preview](#)
[Publish Listing](#)
[Delete](#)

[TEXT](#)
[MEDIA](#)
[APP](#)
[TRIALS](#)
[LEADS](#)
[PRICING](#)

Listing Title * [?](#)

Tagline * [?](#)

Brief Description * [?](#) 194 characters left

Terms & Conditions [?](#)

I'd like to give customers a way to contact us. [?](#)
 I'd like to give customers a way to get technical support. [?](#)

This information is visible to AppExchange users.

Install FormulaForce
 By undefined

Install for Admins Only


Install for All Users













Install for Specific Profiles...


[Install](#) [Cancel](#)

App Name	Publisher	Version Name	Version Number
FormulaForce	undefined	1.0	1.0

[Additional Details](#) [View Components](#)

+ [App Grid] ? [Help] [Settings] [Notifications] [Profile]





License Management App

DESCRIPTION

License Manager tracks the installs of your packages and allows you to manage the licenses for them. You can also access detailed insight about your subscribers and troubleshoot issues.

ITEMS

- Dashboards
- Home
- Leads
- Licenses
- Package Versions
- Packages
- Reports

Default License Settings

What organization do you use to manage your licenses (LMO)?

andyinthecloud.com (00D70000000JlxzEAG)

What type of default license does your application have?

- Default license is a free trial
 Default license is active

What is the length of your default license?

- License does not expire
 License length:

How many seats are available with your default license?

- License is site-wide
 Default number of seats:

Installed Packages

Action	Package Name	Publisher	Version Number	Namespace Prefix	Status	Allowed Licenses
Uninstall Manage Licenses	Declarative Lookup Rollup Summaries Tool	Home	1.4	dlrs	Active	3

salesforce

Search Salesforce

LICENSES

All

50+ items • Sorted by License Name • Last updated 07/30/2016 at 22:19

LICENSE NAME	LEAD	PACKAGE VERSION	LICENSED SEATS	INSTALL DATE
L-00001	Fred Blogs	Declarative Lookup Rollup Summaries Too...	Site License	09/04/2014

License Edit
L-00001

Save Cancel

License Information ! = Required Information

License Name	L-00001	Package Version	<u>Declarative Lookup Rollup Summaries Tool 1.4</u>
License Type	Editable	Install Date	23/07/2013
Seats	-1 <input checked="" type="checkbox"/> This is a Site License	Expiration	[18/01/2014] <input checked="" type="checkbox"/> Does not Expire
Used Licenses		Status	Active ▾

Save Cancel

Home Leads Licenses Packages Package Versions **Subscribers** Reports Dashboards +

Subscriber Organizations Help for this Page ?

Q Fred ✕

Organization Name	Organization ID	Edition	Type
Freds Company	00DG0000000CinX	Developer Edition	Production

« Previous Next »

Page 1 of 1

Subscriber Overview

[Help for this Page](#)

Freds Company

Organization Name	Freds Company	Organization ID	00DG0000000CinX
Primary Contact	Fred Blogs	Instance	NA11 (Production)
Address	Cloud Street Cloud City, Cloud State CLOUD1 23 GB	Edition	Developer Edition
Company Phone		Default Language	English
		Default Locale	English (United Kingdom)
		Currency Locale	English (Ireland,Euro)

Limits

Used Data Space	8%	API Requests, Last 24 Hours	0%
Used File Space	0%		

Login Access Granted


Action	User	User Name	Expiration Date
Login	Fred Blogs	fred@fredblogs.com	23/01/2014

Previous Next Page 1 of 1

Packages & Licensing




Package Name	Current Version	Namespace	Total Licenses	Used Licenses	Status	Aloha App	Install Date
Declarative Lookup Rollup Summaries Tool	1.4	dlrs	3	1	Active	<input checked="" type="checkbox"/>	23/07/2013

Grant Account Login Access

Let us know what you think | [Help for this Page](#) 

To assist with support issues, you may grant your administrator or support personnel the ability to login as you and access your data.

My Username: **andy-generaldev@financialforce.com**

Grant Access To	Access Duration
Your Company's Administrator	--No Access-- 
Salesforce.com Support	5 day(s) left. Expires on 23/01/2014. Change
andyinthecloud.com Support 	1 Week (exp. 25/01/2014) 

Save

Cancel

Login Access Granted

Action	User	User Name	Expiration Date
Login	Fred Blogs	fred@fredblogs.com	23/01/2014

[Previous](#) [Next](#) Page 1 of 1

Chapter 2: Leveraging Platform Features

Field Label

Please enter the maximum length for a text field below.

Length

Field Name

Description

Help Text

Required Always require a value in this field in order to save a record

Unique Do not allow duplicate values

- Treat "ABC" and "abc" as duplicate values (case insensitive)
- Treat "ABC" and "abc" as different values (case sensitive)

External ID Set this field as the unique record identifier from an external system

Default Value [Show Formula Editor](#)

Use [formula syntax](#): e.g., Text in double quotes: "hello", Number: 25, Percent as decimal: 0.10, Date expression: Today() + 7

Season Edit Help for this Page

New Season

Season Edit



Information ! = Required Information

Season Name Owner Andrew Fawcett

Year

Lookup Options

Related To	<u>Driver</u>	Child Relationship Name	<input type="text" value="Contestants"/>
Related List Label	<input type="text" value="Contestants"/>		
Required	<input checked="" type="checkbox"/> Always require a value in this field in order to save a record		
What to do if the lookup record is deleted?	<input type="radio"/> Clear the value of this field. You can't choose this option if you make this field required.		
	<input type="radio"/> Don't allow deletion of the lookup record that's part of a lookup relationship.		

 Deletion problems [Help for this Page](#) 

Lewis Hamilton

[Back to Previous Page](#)

Your attempt to delete Lewis Hamilton could not be completed because it is associated with the following contestants. If the following table is empty, it's because you don't have access to the records restricting the delete.

Contestant Name
<u>CONTESTANT-00000001</u>

Lookup Filter

Optionally, create a filter to limit the records available to users in the lookup field. [Tell me more!](#)

▼ [Hide Filter Settings](#)

Filter
Criteria

[Insert Suggested Criteria](#)

	Field	Operator	Value / Field	
	Driver: Active	equals	Value	True
AND	Begin typing to search for a field...	--None--	Value	

[Add Filter Logic...](#)

Filter Type **Required.** The user-entered value must match filter criteria.

If it doesn't, display this error message on save:

Only Active Drivers can be contestants in a race.

[Reset to default message](#)

Optional. The user can remove the filter or enter values that don't match criteria.

Lookup Window Text Add this informational message to the lookup window.

Only Drivers who's status is active are permitted.

Active Enable this filter.

Save

Cancel



Lookup

Only Drivers who's status is active are permitted.

Rubens Barrichello

Go!

You can use "*" as a wildcard next to other characters to improve your search results.

< [Clear Search Results](#)

Search Results

Driver Name

No records found due to one of the following:

- There are no records of this type
- You don't have permission to see any of the records
- Records do not fit the filter criteria set by your administrator



Contestant Edit

New Contestant

[Help for this Page](#) ?

Contestant Edit

Save

Save & New

Cancel

Error: Invalid Data.

Review all error messages below to correct your data.

Information

| = Required Information

Race | Spa

Driver | Rubens Barrichello

Error: Only Active Drivers can be contestants in a race.

Save

Save & New

Cancel

Lookup

Only Drivers who's status is active are permitted.

You can use "*" as a wildcard next to other characters to improve your search results.

< [Clear Search Results](#)

Search Results

Driver Name	Nationality
Lewis Hamilton	British

Step 3. Define the summary calculation Step 3 of 5

Select Object to Summarize I = Required Information

Master Object Race
Summarized Object

Select Roll-Up Type

COUNT
 SUM
 MIN
 MAX

Field to Aggregate

Filter Criteria

- All records should be included in the calculation
- Only records meeting certain criteria should be included in the calculation

Field	Operator	Value	
<input type="text" value="DNF"/>	<input type="text" value="equals"/>	<input type="text" value="True"/>	<input type="button" value="AND"/>
<input type="text" value="--None--"/>	<input type="text" value="--None--"/>	<input type="text"/>	<input type="button" value="AND"/>
<input type="text" value="--None--"/>	<input type="text" value="--None--"/>	<input type="text"/>	<input type="button" value="AND"/>
<input type="text" value="--None--"/>	<input type="text" value="--None--"/>	<input type="text"/>	<input type="button" value="AND"/>
<input type="text" value="--None--"/>	<input type="text" value="--None--"/>	<input type="text"/>	<input type="button" value="AND"/>

For checkbox fields, enter a value of True for checked or False for not checked. For picklist fields, enter the master picklist field value in your corporate language.

New Custom Label

Custom Label Edit

[Save](#) [Save & New](#) [Cancel](#)

Short Description	<input type="text" value="DriverDisqualified"/>	Name	<input type="text" value="DriverDisqualified"/>
Namespace Prefix	fforce	Protected Component	<input checked="" type="checkbox"/>
Language	English		
Categories	<input type="text"/>		
Value	<input type="text" value="The driver {0} was disqualified."/>		

[Save](#) [Save & New](#) [Cancel](#)

Sharing Settings

[Criteria-Based Sharing Rules Video Tutorial](#) | [Help for this Page](#)

This page displays your organization's sharing settings. These settings specify the level of access your users have to each others' data.

Manage sharing settings for:

Default Sharing Settings

Organization-Wide Defaults

[Edit](#)

[Organization-Wide Defaults Help](#)

Object	Default Access	Grant Access Using Hierarchies
Lead	Public Read/Write/Transfer	✓
Account, Contract and Asset	Public Read/Write	✓
Contact	Controlled by Parent	✓
Opportunity	Public Read/Write	✓
Case	Public Read/Write/Transfer	✓
Campaign	Public Full Access	✓
Activity	Private	✓
Calendar	Hide Details and Add Events	✓
Price Book	Use	✓
Contestant	Controlled by Parent	
Driver	Public Read/Write	✓
Race	Controlled by Parent	
Season	Public Read/Write	✓

Contestant Actions
New Action

Enter Action Information Save Cancel

Object Name i

Namespace Prefix

Action Type i

Label

Standard Label Type i

Name i

Description i

Icon [Change Icon](#) i

Save Cancel

Contestant Action [Help for this Page](#) ?

Out of Race

[Predefined Field Values](#) [1]

Action Detail Edit Delete Edit Layout

Label	Out of Race	Object Name	Contestant
Standard Label Type		Action Type	Update a Record
Name	OutOfRace	Icon	
Namespace Prefix	fforce		
Description	Update the records DNF field to True		
Created By	Andrew Fawcett, 03/02/2014 21:08	Modified By	Andrew Fawcett, 03/02/2014 21:08

Edit Delete Edit Layout

Predefined Field Values New

Action	Field Name	API Name	Field Type	Value
Edit Del	DNF	fforce_DNF_c	Checkbox	TRUE

[^ Back To Top](#) Always show me [more](#) records per related list



Contestant
CONTESTANT-00000003

Hide Feed

Post File Link

Out of Race ▾

Race

Spain

Poll

Out of Race

Follow

Followers

No followers.

Update

| Show **All Updates** ▾



CONTESTANT-00000003



- Edit
- Delete
- Clone

Contestant Name
CONTESTANT-00000003

Race
Spa

Dr

RU

Dr

RU

DN

Cr

Ar

Ar

Ar

Ar

Ar

Ar

Ar

Ar

Ar



Log a Call



Link



Poll



Out of Race



Last Modified By
Andrew Fawcett, 03/02/2014 20:54



Package Upgrade Details

[Help for this Page](#)

Package Name	FormulaForce
Version Name	1.1
Version Number	1.1
Publisher	Andrew Fawcett
Description	

Installed Version Information

Package Name	FormulaForce
Version Name	1.0
Version Number	1.0
Description	

[Continue](#) [Cancel](#)

Package Components

▼ Apps (2)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Race Analytics		App	This is a brand new component.
Create	Race Management		App	This is a brand new component.

▼ Resources (3)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Out of Race	Contestant	Action	This is a brand new component.
Create	All	Driver	List View	This is a brand new component.
Create	All	Season	List View	This is a brand new component.

▼ Permission Sets (3)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	FormulaForce - Race Analytics		Permission Set	This is a brand new component.
Create	FormulaForce - Race Management - Update DNF Status		Permission Set	This is a brand new component.
Create	FormulaForce - Race Management		Permission Set	This is a brand new component.

▼ Objects (2)

Action	Component Name	Parent Object	Component Type	Installation Notes
Update	Contestant		Custom Object	This is an upgraded component. It will be updated to the new version.
Update	Driver		Custom Object	This is an upgraded component. It will be updated to the new version.

▼ Fields (8)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Active	Driver	Custom Field	This is a brand new component.
Create	DNF	Contestant	Custom Field	This is a brand new component.
Create	Nationality	Driver	Custom Field	This is a brand new component.
Update	Driver	Contestant	Custom Field	This is an upgraded component. It will be updated to the new version.
Create	Total DNFs	Race	Custom Field	This is a brand new component.
Create	Fastest Lap By	Race	Custom Field	This is a brand new component.
Create	Driver and Race	Contestant	Custom Field	This is a brand new component.
Create	Year	Season	Custom Field	This is a brand new component.



CONTESTANT
CONTESTANT-00000003

+ Follow

Edit

Out of Race

Delete



RELATED

DETAILS

COLLABORATE



Race Data ID

2014-Spain-14

Contestant Name

CONTESTANT-00000003

Race

Spain

Driver

Fernando Alonso

Car

Out of Race

Race
Spain

Cancel

Save

Poll

Update...



Chapter 3: Application Storage

Custom Settings Help for this Page ?

Use custom settings to create and manage custom data at the organization, profile, and user levels. Custom settings data is stored in the application cache. This means you can access it efficiently, without the cost of repeated queries. Custom settings data can be used by formula fields, Visualforce, Apex, and the Force.com Web Services API.

Percentage of custom settings data used: 0.01%
 You are currently using 0 MB of custom settings data in your organization, out of an allowed limit of 10 MB.

View: All [Create New View](#)

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Other | All

Action	Label ↑	Visibility	Settings Type	Namespace Prefix	Description	Record Size	Number of Records	Total Size
Edit Del Manage	Track Lap Records	Public	List	force	Records the lap records for a given track	172	3	516

Select Object to Summarize

Master Object: Race

Summarized Object: Contestants

Select Roll-Up Type

COUNT
 SUM
 MIN
 MAX

Field to Aggregate: Qualification 1 Lap Time

Edit Field Mapping: Races



Your file has been auto-mapped to existing Salesforce fields, but you can edit the mappings if you wish. Unmapped fields will not be imported.

Edit	Mapped Salesforce Object	CSV Header	Example	Example	Example
Change	Fastest Lap By	Fasted Lap By	LewisHamito	LewisHamito	LewisHamilton
Change	Race Name	Name	Spa	Melbourne	Shanghai
Change	Season	Year	2014	2014	2014

Track Lap Records

[Help for this Page](#) 

View: [All](#)  [Edit](#) | [Create New View](#)

New							
Action	Label ↑	Track Lap Record Name	Namespace Prefix	Protected Component	Time	Driver Name	Year
Edit	 Circuit Spa-Francorchamps	Circuit_Spa_Francorchamps	ff2	<input type="checkbox"/>	105.108	Kimi Räikkönen	2004
Edit	 Nürburgring	Nurburgring	ff2	<input type="checkbox"/>	84.468	Michael Schumacher	2004
Edit	 Silverstone Circuit	Silverstone_Circuit	ff2	<input type="checkbox"/>	90.874	Fernando Alonso	2010

Storage Usage

[Help for this Page](#) ?

Your organization's storage usage is listed below.

Storage Type	Limit	Used	Percent Used
Data Storage	256.0 MB	284 KB	0%
File Storage	902.0 MB	13 KB	0%

Current Data Storage Usage

Record Type	Record Count	Storage	Percent
Opportunities	31	62 KB	22%
Cases	26	52 KB	18%
Leads	22	44 KB	15%
Contacts	20	40 KB	14%
Campaigns	4	32 KB	11%
Accounts	12	24 KB	8%
Solutions	10	20 KB	7%
Drivers	2	4 KB	1%
Races	1	2 KB	1%
Seasons	1	2 KB	1%
Contestants	1	2 KB	1%
Tasks	0	0 B	0%
Photos	2	0 B	0%



Race Data
RD-00000001

[Edit Layout](#) | [Printable View](#) | [Help for this Page](#)

[Back to List: Custom Apps](#)

Race Data Detail [Edit](#) [Delete](#) [Clone](#)

Race Data Name	RD-00000001	Owner	Andrew Fawcett [Change]
Race	Spa		
Created By	Andrew Fawcett , 15/02/2014 18:07	Last Modified By	Andrew Fawcett , 15/02/2014 18:07

[Edit](#) [Delete](#) [Clone](#)

Apex Test Execution Options ✕

Store Only Aggregated Code Coverage

Stores code coverage results aggregated for all test methods; you can't view code coverage results for individual test methods. Use only to reduce code coverage calculation time when executing many tests on large volumes of code.

Disable Parallel Apex Testing

Executes test methods one at a time.

Independent Auto-Number Sequence

Ensures that auto-numbers in your organization's records don't have gaps due to test records created in Apex tests.

Race Data

RD-000000001

[« Back to List: Custom Object Definitions](#)

Race Data Detail

Race Data Name	RD-000000001
Alternative Race ID	MYID-000000001
Race	Spa
Created By	Andrew Fawcett , 15/02/2014 18:07

Data Import Wizard

[Get Started](#) | [Give us feedback](#) | [Help for this page](#) ?



Before you import
your data . . .

[Collapse](#)

Clean up your data import file

You'll have fewer errors to resolve if your data file is clean and free of duplicates. [Watch video](#)

Make sure your field names match Salesforce field names

You'll be required to map your data fields to Salesforce data fields. Data in unmapped fields is not imported. [View a list of Salesforce data fields.](#)

Make sure you're not importing too many records

Using the Data Import Wizard, you can import up to 50,000 records at a time.

▼ Tabs (1)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Race Data		Tab	This is a brand new component.

▼ Resources (3)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	All	RaceData__c	List View	This is a brand new component.
Create	Race Data Layout	RaceData__c	Page Layout	This is a brand new component.
Create	Track Lap Record Layout	TrackLapRecord__mdt	Page Layout	This is a brand new component.

▼ Objects (2)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Race Data		Custom Object	This is a brand new component.
Create	Track Lap Record		Custom Metadata Type	This is a brand new component.

▶ Permission Sets (3)				
-----------------------	--	--	--	--

▼ Fields (9)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Twitter Handle	Driver	Custom Field	This is a brand new component.
Create	Race	RaceData__c	Custom Field	This is a brand new component.
Create	Qualification 3 Lap Time	Contestant	Custom Field	This is a brand new component.
Create	Driver Name	TrackLapRecord__mdt	Custom Field	This is a brand new component.
Create	Qualification 1 Lap Time	Contestant	Custom Field	This is a brand new component.
Create	Year	TrackLapRecord__mdt	Custom Field	This is a brand new component.
Create	Time	TrackLapRecord__mdt	Custom Field	This is a brand new component.
Create	Qualification 2 Lap Time	Contestant	Custom Field	This is a brand new component.
Create	Poll Position Lap Time	Race	Custom Field	This is a brand new component.

	A	B	C
1	Year	Name	Fasted Lap By
2	2014	Melbourne	LewisHamilton
3	2014	Shanghai	LewisHamilton
4	2014	Monte Carlo	LewisHamilton
5	2014	Budapest	LewisHamilton

What do you want to do? ?

Add new records ✓

Match by: ?

↓

Which Season field in your file specifies the Master/Detail relationship? ?

↓

Which Driver field in your file do you want to match against to set the Fastest Lap By lookup field? ?

↓

Trigger workflow rules? ?

Trigger workflow rules for new and updated records

Where is your data located? ?

Drag CSV file here to upload

CSV

File

Races.csv ✓

Character Code ?

↓

Custom Metadata Type **Track Lap Record** [Help for this Page](#)

[Standard Fields](#) [6] | [Custom Fields](#) [0] | [Page Layouts](#) [1]

Custom Metadata Type Detail [Edit](#) [Delete](#) [Manage Track Lap Records](#)

Singular Label	Track Lap Record	Description	
Plural Label	Track Lap Records	Visibility	Public
Object Name	TrackLapRecord	Record Size	141
API Name	TrackLapRecord__mdt		
Created By	Book Second , 06/08/2016 10:29	Modified By	Book Second , 06/08/2016 10:29

Standard Fields

Action	Field Label	Field Name	Data Type	Indexed
	Created By	CreatedBy	Lookup(User)	
Edit	Track Lap Record Name	DeveloperName	Text(40)	
Edit	Label	MasterLabel	Text(40)	
	Last Modified By	LastModifiedBy	Lookup(User)	
Edit	Namespace Prefix	NamespacePrefix	Text	
Edit	Protected Component	IsProtected	Checkbox	

Custom Fields [New](#)

No custom fields defined

Page Layouts [New](#) [Page Layout Assignment](#)

Action	Page Layout Name	Created By	Modified By
Edit Del	Track Lap Record Layout	Book Second , 06/08/2016 10:29	Book Second , 06/08/2016 10:29

Field Manageability Who can change field values after records are installed via managed package?

- Only the package developer (via package upgrade)
- Any user with the Customize Application permission (package upgrades won't overwrite the value)
- No one

Custom Fields [New](#)

Action	Field Label	API Name	Data Type	Field Manageability	Indexed	Controlling Field	Modified By
Edit Del	Driver Name	DriverName__c	Text(60)	Upgradable			App Developer , 06/08/2016 13:26
Edit Del	Time	Time__c	Number(5, 3)	Upgradable			App Developer , 06/08/2016 13:27
Edit Del	Year	Year__c	Text(4)	Upgradable			App Developer , 06/08/2016 13:28

All Custom Metadata Types

[Help for this Page](#) 


Custom metadata types enable you to create your own setup objects whose records are metadata rather than data. These are typically used to define application configurations that need to be migrated from one environment to another, or packaged and installed.

Rather than building apps from data records in custom objects or custom settings, you can create custom metadata types and add metadata records, with all the manageability that comes with metadata: package, deploy, and upgrade. Querying custom metadata records doesn't count against SOQL limits.

New Custom Metadata Type						
Action	Label	Namespace Prefix	Visibility	Api Name	Record Size	Description
Del Manage Records	Track Lap Record		Public	TrackLapRecord__mdt	213	


Add to Package

FormulaForce

[Help for this Page](#) 

A package contains components such as apps, objects, reports, or email templates. These packages can be uploaded to share with others privately or posted on Force.com AppExchange to share publicly. The list below displays all packages created by your organization. To create a new package, click New.

[Add to Package](#) [Cancel](#)

Component Type: 

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Other | **All**

<input checked="" type="checkbox"/>	Name ↑
<input checked="" type="checkbox"/>	Circuit Spa Francorchamps
<input checked="" type="checkbox"/>	Nurburgring
<input checked="" type="checkbox"/>	Silverstone Circuit

[Add to Package](#) [Cancel](#)

▼ Custom Metadata Record (3)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Circuit Spa-Francorchamps		Track Lap Record [ff2]	This is a brand new component.
Create	Silverstone Circuit		Track Lap Record [ff2]	This is a brand new component.
Create	Nürburgring		Track Lap Record [ff2]	This is a brand new component.

Track Lap Record (Managed) Help for this Page ?

This Track Lap Record is managed, meaning that you may only edit certain attributes. [Display More Information](#)

Track Lap Record Edit

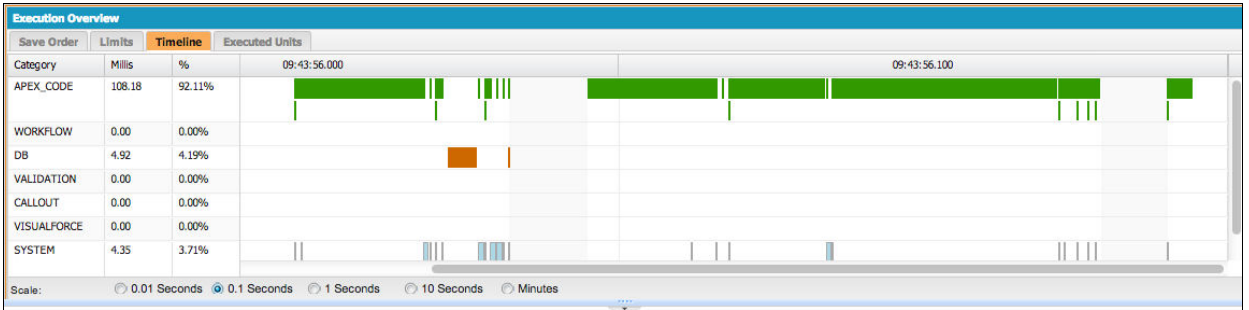
Information ! = Required Information

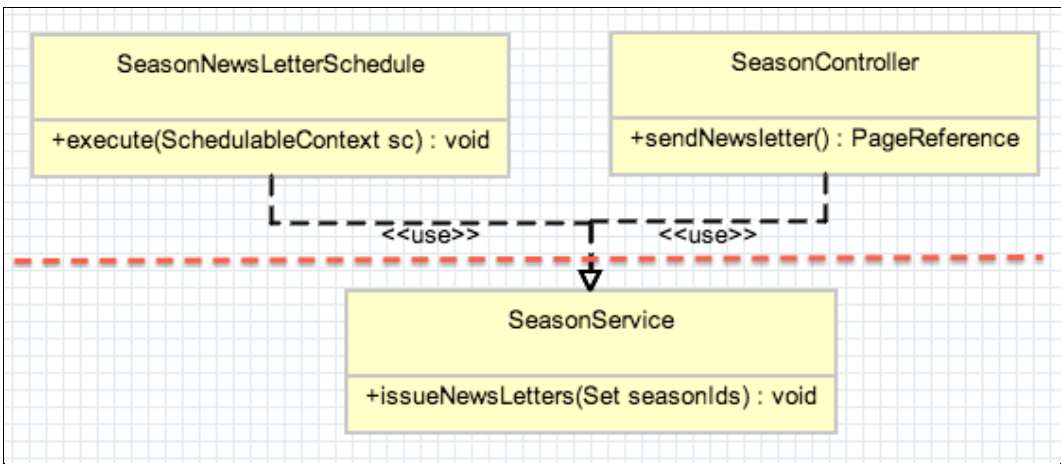
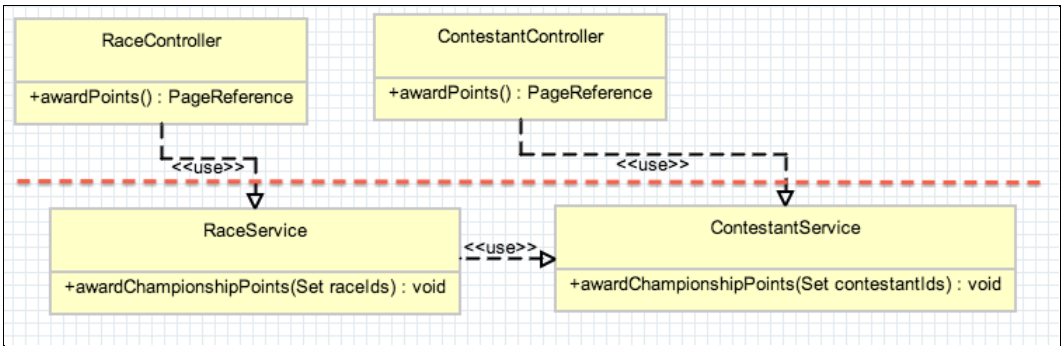
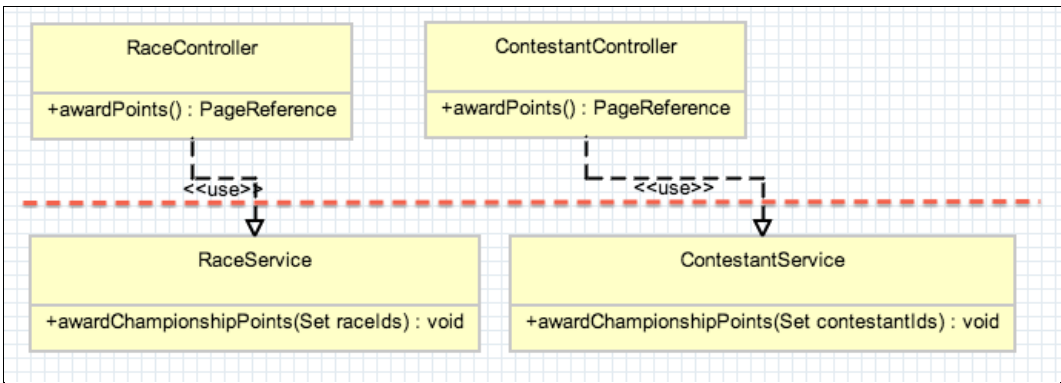
Label	<input type="text" value="Circuit Spa-Francorchar"/>	Protected Component	<input type="checkbox"/> <input type="button" value="i"/>
Track Lap Record Name	<input type="text" value="Circuit_Spa_Francorchar"/> <input type="button" value="i"/>	Namespace Prefix	ff2
Driver Name	<input type="text" value="Kimi Räikkönen"/>		
Time	<input type="text" value="105.108"/>		
Year	<input type="text" value="2004"/>		

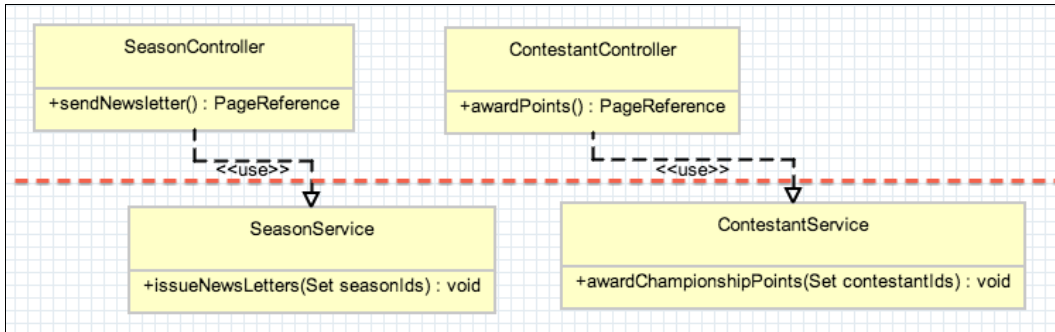
Chapter 4: Apex Execution and Separation of Concerns

Log		
Text	Category	Line
EXECUTION_STARTED	EXECUTION_STARTED	
execute_anonymous_apex	CODE_UNIT_STARTED	[EXTERNAL]
<init>(Integer)	SYSTEM_CONSTRUCTOR_ENTRY	[1]
RaceService.RaceService()	METHOD_ENTRY	[1]
fforce.RaceService.awardChampionshipPoints(SET<Id>)	METHOD_ENTRY	[1]
fflib_SObjectUnitOfWork.fflib_SObjectUnitOfWork()	METHOD_ENTRY	[54]
<init>()	SYSTEM_CONSTRUCTOR_ENTRY	[9]
<init>(LIST<Schema.SObjectType>)	CONSTRUCTOR_ENTRY	[9]
Aggregations:1 select id, (select Id, fforce__ChampionshipPoints__c from Contestants__r) from Race__c	SQL_EXECUTE_BEGIN	[14]
QueryLocatorIterator.QueryLocatorIterator()	SYSTEM_METHOD_ENTRY	[7]
fforce.fflib_SObjectUnitOfWork.registerDirty(SObject)	METHOD_ENTRY	[23]
fforce.fflib_SObjectUnitOfWork.registerDirty(SObject)	METHOD_ENTRY	[23]
fforce.fflib_SObjectUnitOfWork.commitWork()	METHOD_ENTRY	[28]
SavepointValue0	SAVEPOINT_SET	[166]
fforce.fflib_SObjectUnitOfWork.Relationships.resolve()	METHOD_ENTRY	[172]
Op:Update Type:SObject Rows:2	DML_BEGIN	[177]
fforce.ContestantsTrigger on Contestant trigger event BeforeUpdate for [a03b0000006WVph, a03b00000072xx9]	CODE_UNIT_STARTED	[EXTERNAL]
fforce.ContestantsTrigger on Contestant trigger event AfterUpdate for [a03b0000006WVph, a03b00000072xx9]	CODE_UNIT_STARTED	[EXTERNAL]
CUMULATIVE_LIMIT_USAGE	CUMULATIVE_LIMIT_USAGE	
(default)	LIMIT_USAGE_FOR_NS	
fforce	LIMIT_USAGE_FOR_NS	
CUMULATIVE_LIMIT_USAGE_END	CUMULATIVE_LIMIT_USAGE_END	
EXECUTION_FINISHED	EXECUTION_FINISHED	

Log		
Text	Category	Line
EXECUTION_STARTED	EXECUTION_STARTED	
TRIGGERS	CODE_UNIT_STARTED	[EXTERNAL]
fforce.ContestantsTrigger on Contestant trigger event BeforeUpdate for [a03b0000006WVph]	CODE_UNIT_STARTED	[EXTERNAL]
fforce.ContestantsTrigger on Contestant trigger event AfterUpdate for [a03b0000006WVph]	CODE_UNIT_STARTED	[EXTERNAL]
EXECUTION_FINISHED	EXECUTION_FINISHED	






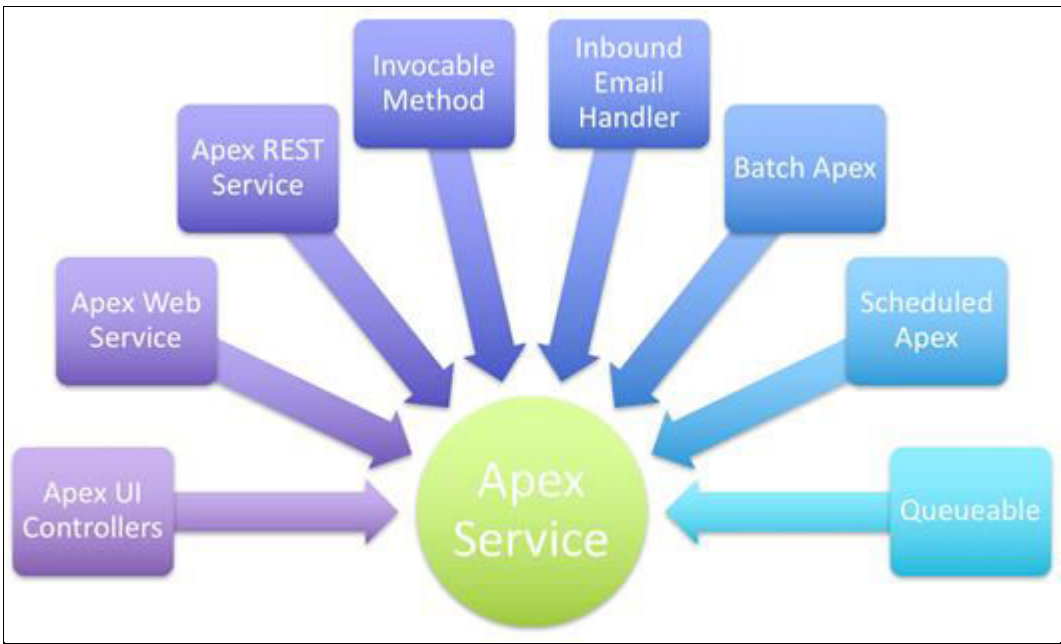


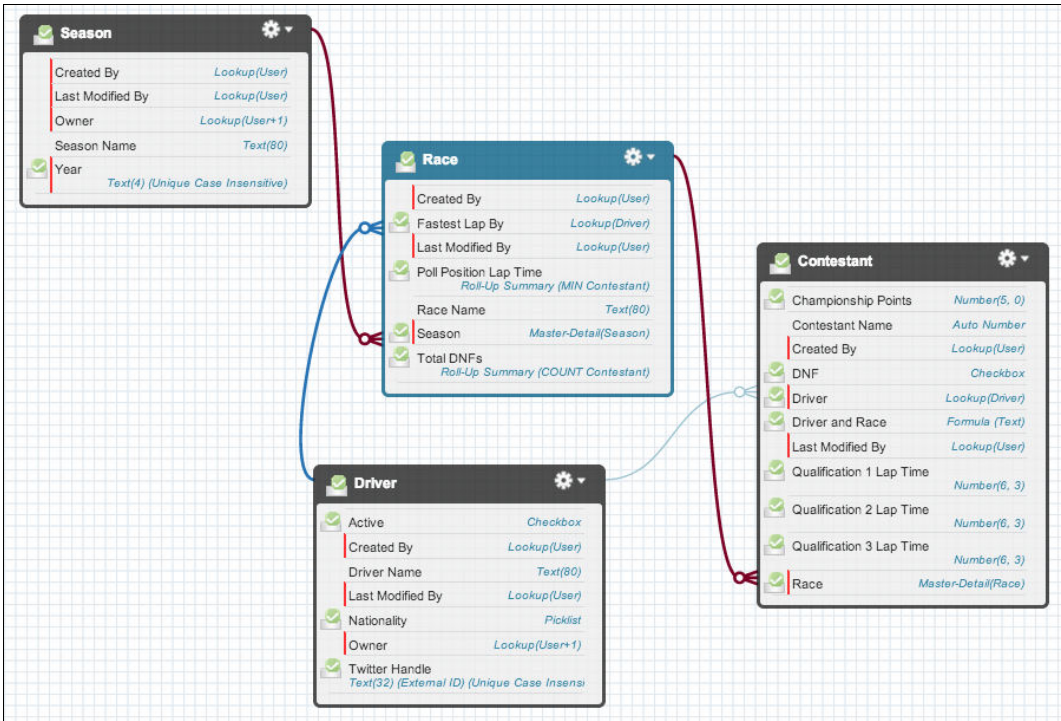
▼ Code (14)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	SeasonNewsletterScheduler		Apex Class	This is a brand new component.
Create	SeasonController		Apex Class	This is a brand new component.
Create	SeasonService		Apex Class	This is a brand new component.
Create	RaceService		Apex Class	This is a brand new component.
Create	RaceServiceTest		Apex Class	This is a brand new component.
Create	SeasonNewsletterSchedulerTest		Apex Class	This is a brand new component.
Create	RaceController		Apex Class	This is a brand new component.
Create	ContestantServiceTest		Apex Class	This is a brand new component.
Create	SeasonControllerTest		Apex Class	This is a brand new component.
Create	ContestantControllerTest		Apex Class	This is a brand new component.
Create	ContestantController		Apex Class	This is a brand new component.
Create	RaceControllerTest		Apex Class	This is a brand new component.
Create	SeasonServiceTest		Apex Class	This is a brand new component.
Create	ContestantService		Apex Class	This is a brand new component.

DriverStats 		
Ctrl + Shift + 1	COMPONENT	
Ctrl + Shift + 2	CONTROLLER	Create
Ctrl + Shift + 3	HELPER	Create
Ctrl + Shift + 4	STYLE	Create
Ctrl + Shift + 5	DOCUMENTATION	Create
Ctrl + Shift + 6	RENDERER	Create
Ctrl + Shift + 7	DESIGN	Create
Ctrl + Shift + 8	SVG	Create

Chapter 5: Application Service Layer





▼ ⓘ fflib_IObjectUnitOfWork

- ^A registerNew(SObject) : void
- ^A registerNew(List<SObject>) : void
- ^A registerNew(SObject, sObjectField, SObject) : void
- ^A registerRelationship(SObject, sObjectField, SObject) : void
- ^A registerDirty(SObject) : void
- ^A registerDirty(List<SObject>) : void
- ^A registerDeleted(SObject) : void
- ^A registerDeleted(List<SObject>) : void
- ^A commitWork() : void
- ^A registerWork(IDoWork) : void
- ^A registerEmail(Email) : void

Championship Points [Help for this Page](#) ⓘ

View: All ↕ [Edit](#) | [Create New View](#)

[New](#)

Action	Label	Championship Point Name	Points Awarded ↓
Edit Del	1st	TrackPosition1	25
Edit Del	2nd	TrackPosition2	18
Edit Del	3rd	TrackPosition3	15
Edit Del	4th	TrackPosition4	12
Edit Del	5th	TrackPosition5	10
Edit Del	6th	TrackPosition6	8
Edit Del	7th	TrackPosition7	6
Edit Del	8th	TrackPosition8	4
Edit Del	9th	TrackPosition9	2
Edit Del	10th	TrackPosition10	1

▼ Objects (3)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Update	Contestant		Custom Object	This is an upgraded component. It will be updated to the new version.
Update	Driver		Custom Object	This is an upgraded component. It will be updated to the new version.
Create	Championship Points		Custom Setting	This is a brand new component.

▼ Fields (6)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Points Awarded	ChampionshipPoints__c	Custom Field	This is a brand new component.
Create	Driver Id	Driver	Custom Field	This is a brand new component.
Create	Grid Position	Contestant	Custom Field	This is a brand new component.
Create	Race Time	Contestant	Custom Field	This is a brand new component.
Create	Current	Season	Custom Field	This is a brand new component.
Create	Race Position	Contestant	Custom Field	This is a brand new component.

▼ Code (26)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	flib_StringBuilderTest		Apex Class	This is a brand new component.
Create	TestData		Apex Class	This is a brand new component.
Update	SeasonNewsletterScheduler		Apex Class	This is an upgraded component. It will be updated to the new version.
Update	SeasonController		Apex Class	This is an upgraded component. It will be updated to the new version.

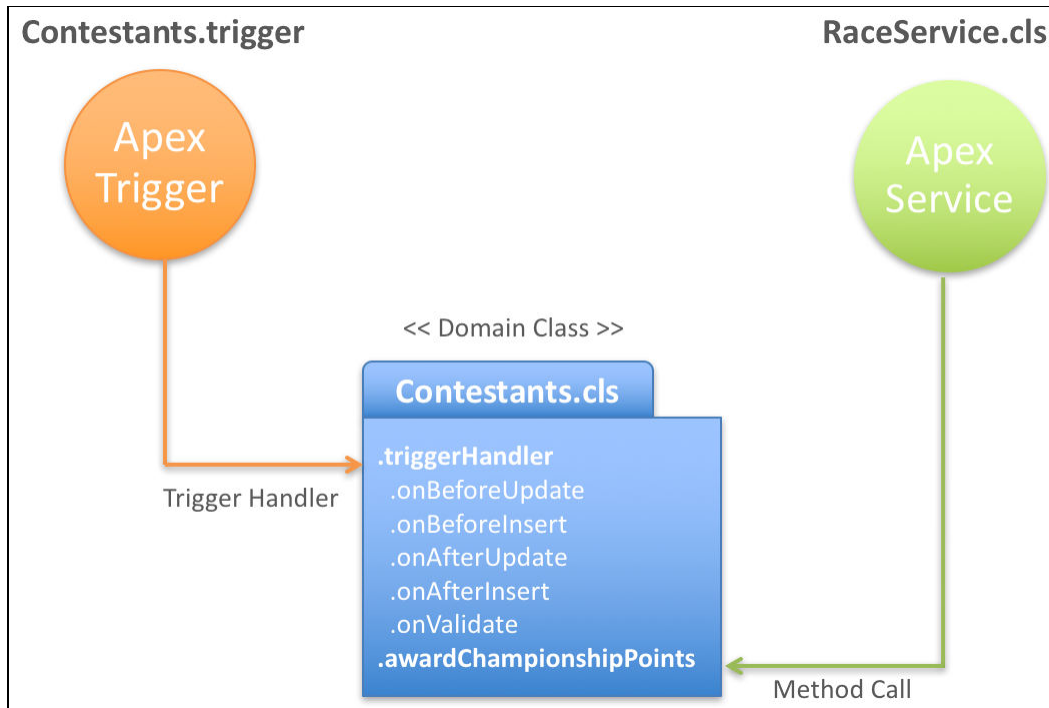
Service [Help for this Page](#)

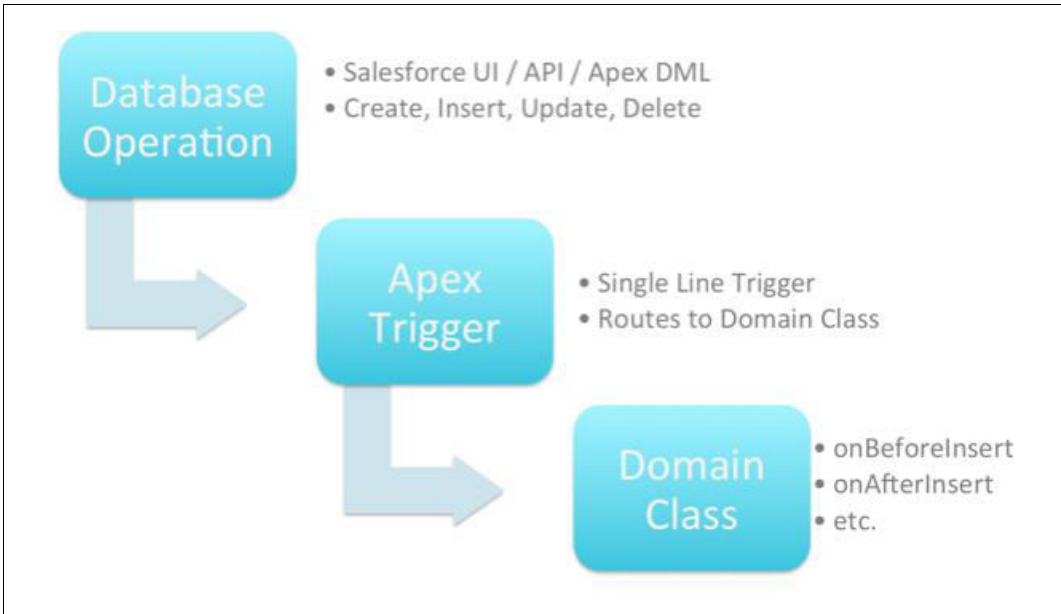
Service Edit

Information | = Required Information

Label	IRaceService	Protected Component	<input checked="" type="checkbox"/>
Service Name	IRaceService		
Apex Class	RaceServiceImplStub		

Chapter 6: Application Domain Layer





- fflib_SObjectDomain(List<SObject>, SObjectType)
- onApplyDefaults() : void
- onValidate() : void
- onValidate(Map<Id, SObject>) : void
- onBeforeInsert() : void
- onBeforeUpdate(Map<Id, SObject>) : void
- onBeforeDelete() : void
- onAfterInsert() : void
- onAfterUpdate(Map<Id, SObject>) : void
- onAfterDelete() : void
- onAfterUndelete() : void
- handleBeforeInsert() : void
- handleBeforeUpdate(Map<Id, SObject>) : void
- handleBeforeDelete() : void
- handleAfterInsert() : void
- handleAfterUpdate(Map<Id, SObject>) : void
- handleAfterDelete() : void
- handleAfterUndelete() : void

Driver

Lewis Hamilton

[Customize Page |](#)


+
[Show Feed](#)

[Contestants \[1\]](#) | [Races \[0\]](#)


Driver Detail

Edit
Delete
Clone
Verify Compliance

Driver Name	Lewis Hamilton	Owner
Nationality	British	
Active	<input checked="" type="checkbox"/>	
FIA Super License	<input type="checkbox"/>	
Twitter Handle		

 **Errors**


- Compliance failures found.
- Driver must have a FIA Super License. (4.1)

Car  **MP4-29** [Customize Page](#) | [Edit Layout](#) | [Printable View](#) | [Help for this Page](#)


[« Back to List: Custom Object Definitions](#)

[Contestants \[1\]](#)

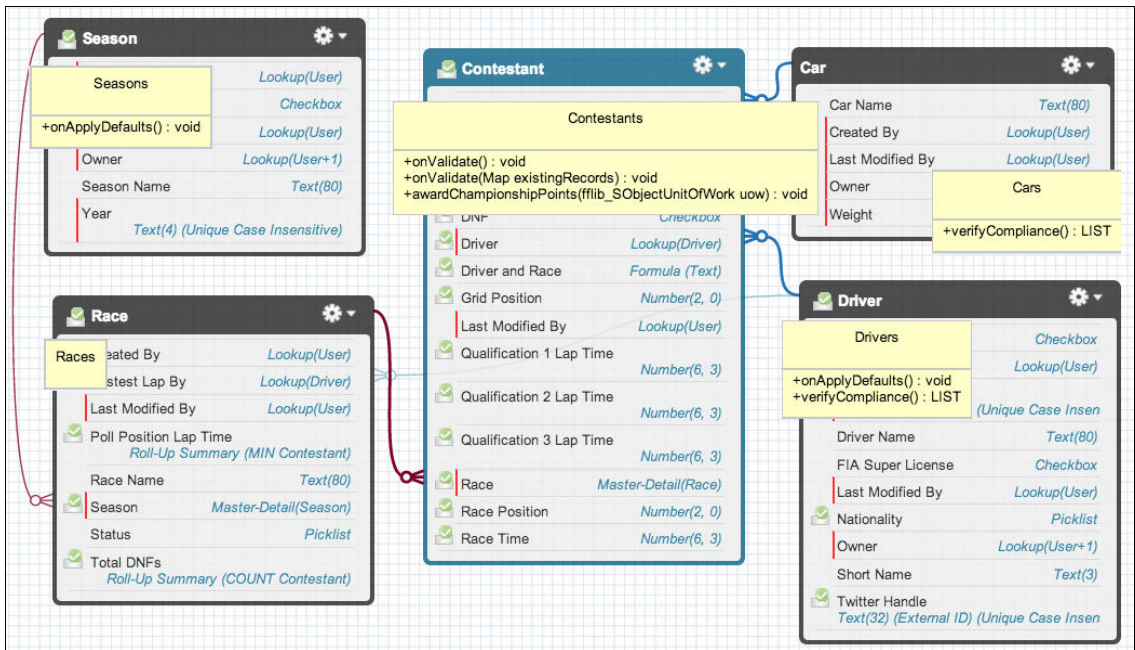
Car Detail


Car Name	MP4-29	Owner	 Book Packaging [Change]
Weight	625		
Created By	Book Packaging, 23/07/2014 13:55	Last Modified By	Book Packaging, 23/07/2014 16:29

[Home](#) [Drivers](#) **[Cars](#)** [Teams](#) [Seasons](#) [Races](#) [Race Data](#) [+](#)

 **Errors**

- Compliance failures found.
- Car must not be less than 691kg. (4.1)



 **Errors**

- Compliance failures found.
- Testing exceeded 15,000km (22.5)
- Driver must have a FIA Super License. (4.1)

TEAM
Mercedes

[Edit](#) [Delete](#)

Team Name
Mercedes

Testing Distance
16,000

Created By
Andrew Fawcett,
03/09/2016 21:18

Owner
Andrew Fawc...

Last Modified By
Andrew Fawcett,
03/09/2016 21:18

Compliance failures found.
Testing exceeded 15,000km (22.5)
Driver must have a FIA Super License. (4.1)

Drivers (1) [New](#)

DRIVER NAME	DRIVER ID	NATIONALITY	FIA SUPER LICENSE
Lewis Hamilton	HAM	British	<input type="checkbox"/>

[View All](#)

▼ Code (23)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Races	Race	Apex Trigger	This is a brand new component.
Create	CarsSelector		Apex Class	This is a brand new component.
Create	Drivers	Driver	Apex Trigger	This is a brand new component.
Create	ComplianceController		Apex Class	This is a brand new component.
Create	ComplianceServiceTest		Apex Class	This is a brand new component.
Create	TeamsSelector		Apex Class	This is a brand new component.
Create	Application		Apex Class	This is a brand new component.
Create	Teams		Apex Class	This is a brand new component.
Update	SeasonService		Apex Class	This is an upgraded component. It will be updated to the new version.
Update	RaceService		Apex Class	This is an upgraded component. It will be updated to the new version.
Create	Contestants	Contestant	Apex Trigger	This is a brand new component.
Create	Seasons	Season	Apex Trigger	This is a brand new component.
Create	ContestantsTest		Apex Class	This is a brand new component.
Create	DriversSelector		Apex Class	This is a brand new component.
Create	Contestants		Apex Class	This is a brand new component.
Create	ComplianceService		Apex Class	This is a brand new component.
Update	fflib_SObjectDomain		Apex Class	This is an upgraded component. It will be updated to the new version.
Create	Cars		Apex Class	This is a brand new component.
Update	ContestantService		Apex Class	This is an upgraded component. It will be updated to the new version.
Update	RacesSelector		Apex Class	This is an upgraded component. It will be updated to the new version.
Create	Seasons		Apex Class	This is a brand new component.
Create	Races		Apex Class	This is a brand new component.
Create	Drivers		Apex Class	This is a brand new component.

▼ Tabs (2)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Team		Tab	This is a brand new component.
Create	Car		Tab	This is a brand new component.
▼ Objects (2)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Team		Custom Object	This is a brand new component.
Create	Car		Custom Object	This is a brand new component.
▼ Fields (7)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	FIA Super License	Driver	Custom Field	This is a brand new component.
Create	Car	Contestant	Custom Field	This is a brand new component.
Create	Short Name	Driver	Custom Field	This is a brand new component.
Create	Status	Race	Custom Field	This is a brand new component.
Create	Weight	Car__c	Custom Field	This is a brand new component.
Create	Team	Driver	Custom Field	This is a brand new component.
Create	Testing Distance	Team__c	Custom Field	This is a brand new component.
▼ Pages (3)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	compliancedriver		Visualforce Page	This is a brand new component.
Create	compliancecar		Visualforce Page	This is a brand new component.
Create	compliancesteam		Visualforce Page	This is a brand new component.

Lightning App Builder - Driver Record Page

Desktop 100% Refresh

Lightning Components

Search components... 🔍

- ▼ Standard (10)
 - Feed
 - Filter List
 - Highlights Panel
 - Recent Items
 - Record Detail
 - Related Lists
 - Report Chart
 - Rich Text
 - Tabs
 - Visualforce
- ▼ Custom (0)

No components available.
- ▼ Custom - Managed (1)
 - ✓ Compliance Checker

+ Follow Edit Delete

Compliance failures found.
Driver must have a FIA Super License. (4.1)

COLLABORATE

Latest Posts ▾ 🔍 ↻

Collaborate with others
No updates here yet.



DRIVER

Lewis Hamilton

+ Follow

Edit

Delete

RELATED

DETAILS

Driver Name Lewis Hamilton	Owner Andrew Fawcett
Active <input checked="" type="checkbox"/>	FIA Super License <input type="checkbox"/>
Nationality British	Short Name HAM
Driver Id HAM	Team Mercedes
	Twitter Handle
Created By Andrew Fawcett, 03/09/2016 16:53	Last Modified By Andrew Fawcett, 03/09/2016 21:21

Compliance failures found.
Driver must have a FIA Super License. (4.1)

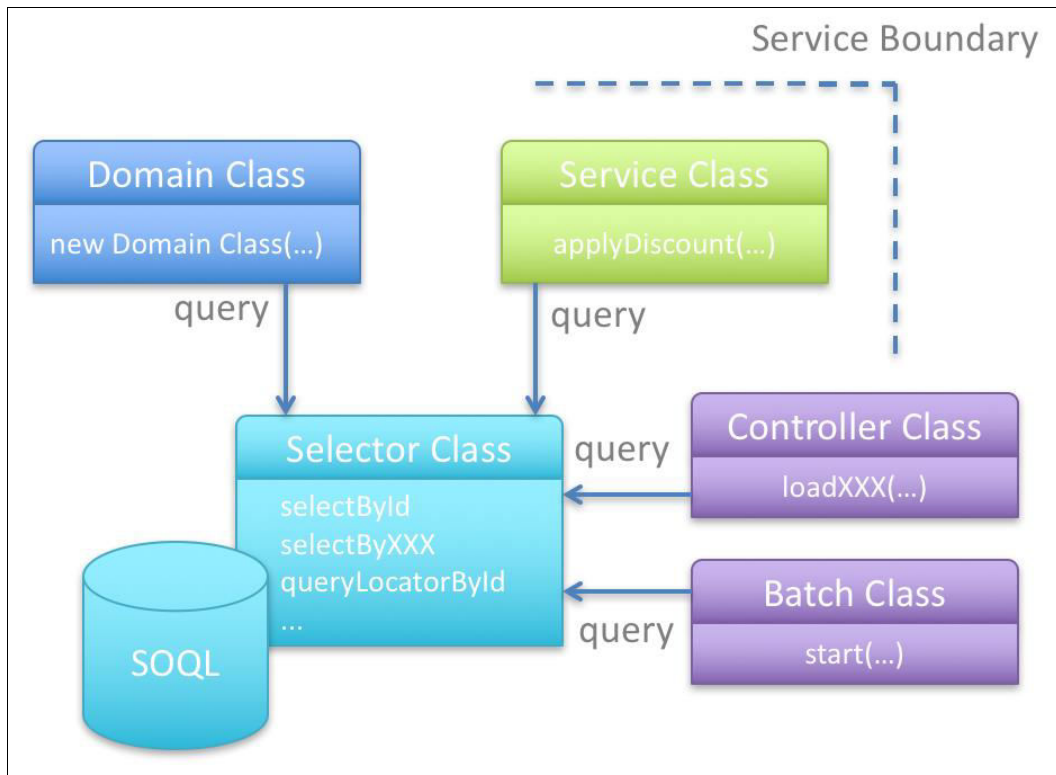
COLLABORATE

Latest Posts



Collaborate with others
No updates here yet.

Chapter 7: Application Selector Layer

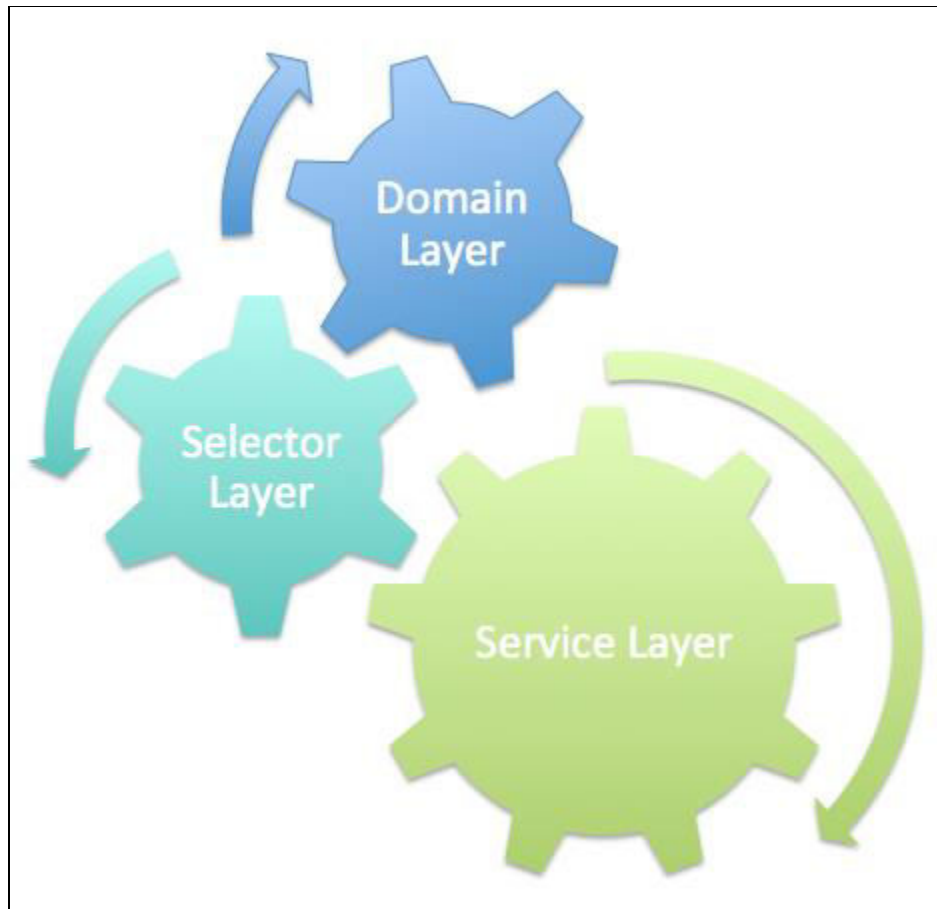


```

fflib_SObjectSelector
  ▲ getObjectType()
  ▲ getObjectFieldList()
  ● fflib_SObjectSelector()
  ● fflib_SObjectSelector(Boolean)
  ● ▼ getObjectFieldSetList()
  ● ▼ getOrderById()
  ● getFieldListBuilder()
  ● setFieldListBuilder(fflib_StringBuilder.FieldListBuilder)
  ● getFieldListString()
  ● getRelatedFieldListString(String)
  ● getObjectByName()
  ● selectObjectsById(Set<Id>)
  ● queryLocatorById(Set<Id>)
  ● assertIsAccessible()

```

Field Sets New			
Action	Field Label	API Name	Where is this used?
Edit Del	Season Overview	force__SeasonOverview	Used when displaying Race details on the Season overview page.



▼ Resources (1)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Season Overview	Race	Field Set	This is a brand new component.

Chapter 8: User Interface

Race Detail Edit Delete Clone

Race Name	Spa	Status	Scheduled
Season	2016	Total DNFs	0
Poll Position Lap Time		Fastest Lap By	
Created By	Andrew Fawcett, 18/09/2016 10:23	Last Modified By	Andrew Fawcett, 18/09/2016 10:23

▼ Race Summary

Position	Driver	Team	Car
1	Lewis Hamilton	Mercedes	MP4-29

Race Layout Mini Page Layout Mini Console View

Save Quick Save Preview As... Cancel Undo Redo

Quick Find Page Name

- Section
- Blank Space
- racesummary**

Label: racesummary
Name: racesummary [fforce__racesummary]
Available for Salesforce mobile apps:No

Fields
Buttons
Actions
Expanded Lookups
Related Lists
Report Charts
Visualforce Pages

Custom Button or Link Edit Save Quick Save Preview Cancel

Label

Name ⓘ

Namespace Prefix

Description

Display Type

- Detail Page Link [View example](#)
- Detail Page Button [View example](#)
- List Button [View example](#)

Display Checkboxes (for Multi-Record Selection)

Behavior [View Behavior Options](#)

Content Source

Content

Related List Properties - Contestants ×

[Help](#) ⓘ

Columns +

Buttons -

Standard Buttons:
Select standard buttons to display on the related list.


New

Custom Buttons:
Select custom buttons to display on the related list. You can also re-order the selected buttons.

Available Buttons		Selected Buttons	
Out of Race	Add <input type="button" value="▶"/>		Up <input type="button" value="▲"/>
	Remove <input type="button" value="◀"/>		Down <input type="button" value="▼"/>

Contestants New Contestant Out of Race

<input type="checkbox"/> Action	Contestant Name	Driver and Race
<input checked="" type="checkbox"/> Edit Del	CONTESTANT-00000001	Lewis Hamilton (Spa)
<input type="checkbox"/> Edit Del	CONTESTANT-00000003	Rubens Barrichello (Spa)


 **Drivers out of Race**

Driver and Race	DNF	Retirement Reason
Lewis Hamilton (Spa)	<input checked="" type="checkbox"/>	<input type="text" value="Engine failure"/>

Save Cancel

Race Detail Edit Delete Clone Download Summary

Race Name	Spa
Season	2014

 Spa Race Summary

Race__c.Status__c Accessible is true

Race__c.Status__c Updatable is true

Race__c.FastestLapBy__c Accessible is true

Race__c.FastestLapBy__c Updatable is true

▼ Use Case A: Using apex:inputField

Status

Fastest Lap By

▼ Use Case B: Using apex:outputField

Status

Fastest Lap By [Lewis Hamilton](#)

▼ Use Case C: Using apex:inputText

Status

Fastest Lap By

▼ Use Case D: Using apex:outputText

Status

Fastest Lap By a02b0000008i13yAAA

▼ Use Case E: Using SOBJECT Field Expressions

The value of Status__c is 'In Progress'

The value of FastestLapBy__c is 'a02b0000008i13yAAA'

▼ Use Case F: Using Controller Property Expressions

The value of Status__c is 'In Progress'

The value of FastestLapBy__c is 'a02b0000008i13yAAA'

- Race__c.Status__c Accessible is true
- Race__c.Status__c Updatable is false
- Race__c.FastestLapBy__c Accessible is false
- Race__c.FastestLapBy__c Updatable is false

▼ Use Case A: Using apex:inputField

Status In Progress

▼ Use Case B: Using apex:outputField

Status In Progress

▼ Use Case C: Using apex:inputText

Status

▼ Use Case D: Using apex:outputText

Status In Progress

▼ Use Case E: Using SObject Field Expressions

The value of Status__c is 'In Progress'

The value of FastestLapBy__c is ''

▼ Use Case F: Using Controller Property Expressions

The value of Status__c is 'In Progress'

The value of FastestLapBy__c is 'a02b0000008i13yAAA'

Home **Seasons** Teams Drivers Cars Race Data Reports +

Drivers out of Race

Driver and Race	DNF	Retirement Reason
Driver #0 (Volume Race)	✓	<input type="text"/>
Driver #1 (Volume Race)	✓	<input type="text"/>
Driver #7 (Volume Race)	✓	<input type="text"/>
Driver #8 (Volume Race)	✓	<input type="text"/>

outofrace OutOfRaceController View State

Name	Type	Value	Size (KB)	% Of Parent
force.outofrace			3.53	100
State			3.36	95
Controllers			1.09	32
Expressions			0.58	17
Internal			1.69	50
Component Tree			0.33	9

outofrace OutOfRaceController View State

Name	Type	Value	Size (KB)	% Of Parent
force.outofrace			5.2	100
State			5.02	97
Controllers			1.63	32
Expressions			0.58	12
Internal			2.81	56
Component Tree			0.33	6

Pages (3)

Action	Component Name	Parent Object	Component Type	Installation Notes
Create	outofrace		Visualforce Page	This is a brand new component.
Create	racessummaryascsv		Visualforce Page	This is a brand new component.
Create	racessummary		Visualforce Page	This is a brand new component.

Fields (1)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Create	Retirement Reason	Contestant	Custom Field	This is a brand new component.

salesforce 1.27 s 3523.57 KB + ? ⚙️ 🔔 👤

Race Management Home Drivers Cars Teams Seasons Races Race Data

DRIVERS Recently Viewed ▾ New Import

1 item · Last updated 09/18/2016 at 11:10 ⚙️ ↺ ✎ 🔄 ⏴

DRIVER NAME
1 Lewis Hamilton

salesforce Search... Search Andrew Fawcett Setup Help Race Management

Home Drivers Cars Teams Seasons Races Race Data +

Drivers Home Help for this Page ?

View: All Go! Edit | Create New View

Recent Drivers New Recently Viewed ▾

Driver Name
Lewis Hamilton

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RELATED
DETAILS

Race Name
Spa

Season
2016

Poll Position Lap Time

Fastest Lap By

Created By
 Andrew Fawcett, 18/09/2016 10:23

Status
Scheduled

Total DNFs
0

Last Modified By
 Andrew Fawcett, 18/09/2016 10:23

Race Summary

POSITION	DRIVER	TEAM	CAR
1	Lewis Hamilton	Mercedes	MP4-29

DRIVER

Lewis Hamilton

+ Follow
Edit
Delete

RELATED
DETAILS

Driver Name
Lewis Hamilton

Active

Nationality
British

Driver Id
HAM

Created By
 Andrew Fawcett, 03/09/2016 16:53

Owner
 Andrew Fawc...

FIA Super License

Short Name
HAM

Team
Mercedes

Twitter Handle

Last Modified By
 Andrew Fawcett, 03/09/2016 21:21


Compliance failures found.
 Driver must have a FIA Super License. (4.1)




COLLABORATE


Latest Posts ▼


Collaborate with others





No updates here yet.





1.5 s 1259.91 KB






Race Management
Home
Drivers ▾
Cars ▾
More ▾




6.34 s 2426.96 KB






Race Management
Home
Drivers ▾
Cars ▾
Teams ▾
Seasons ▾
Races ▾
Race Data ▾





DRIVER
Lewis Hamilton
+ Follow
Edit
New Contact
New Opportunity ▾

RELATED
DETAILS
Verified compliance


Driver Id
Owner


Elements
Console
Sources
Network
Timeline
Profiles
Resources
Security
Audits
Lightning
⚠ 2
⋮
×

Component Tree
Performance
Transactions
Event Log
Actions
Storage
?

Chart

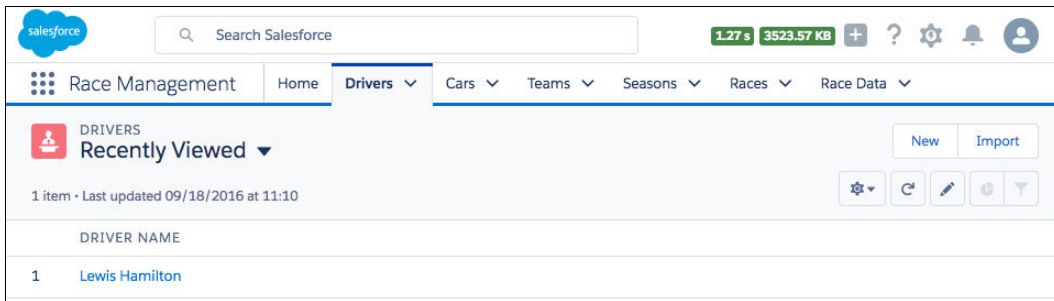


Component Id: 16.c
 Child Components: 13
 Self time: 0.4 ms
 Total time: 6.3 ms
 Aggregated self time: 0.375 ms
 Aggregated total time: 5.725 ms

Chapter 9: Lightning

Success your first Lightning App

Success your first Lightning Component



The screenshot displays the Salesforce Lightning interface. At the top, there is a search bar labeled "Search Salesforce" and a status bar showing "1.27 s" and "3523.57 KB". The navigation menu includes "Race Management", "Home", "Drivers", "Cars", "Teams", "Seasons", "Races", and "Race Data". The "Drivers" section is active, showing a "Recently Viewed" list with one item: "Lewis Hamilton".

DRIVERS	
Recently Viewed	
1 item · Last updated 09/18/2016 at 11:10	
DRIVER NAME	
1	Lewis Hamilton

RACING OVERVIEW
Current Standings, Calendar and Race Results

Standings			
DRIVER	TEAM	WINS	POINTS
1	Lewis Hamilton	Mercedes	1 43
2	Nico Rosberg	Mercedes	1 25
3	Sebastian Vettel	Ferrari	0 15
4	Kimi Raikkonen	Ferrari	0 12
5	Daniel Ricciardo	Red Bull	0 10
6	Valtteri Bottas	Williams	0 8
7	Max Verstappen	Red Bull	0 6
8	Sergio Perez	Force India	0 4
9	Felipe Massa	Williams	0 2
10	Nico Hulkenberg	Force India	0 1
11	Carlos Sainz	Toro Rosso	0
12	Daniil Kvyat	Toro Rosso	0
13	Felipe Nasr	Sauber	0
14	Marcus Ericsson	Sauber	0
15	Jolyon Palmer	Renault	0
16	Kevin Magnussen	Renault	0
17	Jenson Button	McLaren	0
18	Fernando Alonso	McLaren	0
19	Esteban Ocon	Manor Racing	0
20	Pascal Wehrlein	Manor Racing	0
21	Romain Grosjean	Haas F1 Team	0

Race Calendar	
Malaysia Kuala Lumpur 9/30/2016 - 10/2/2016	
Japan Suzuka 10/7/2016 - 10/9/2016	
United States Austin 10/21/2016 - 10/23/2016	
Mexico Mexico City 10/28/2016 - 10/30/2016	
Brazil Sao Paulo 11/11/2016 - 11/13/2016	
Abu Dhabi Yas Marina 11/25/2016 - 11/27/2016	
Completed races	
Singapore Singapore 9/16/2016 - 9/18/2016	
Italy Monza 9/2/2016 - 9/4/2016	
Belgium Spa Francorchamps 8/26/2016 - 8/28/2016	

Results Italy				
DRIVER	TEAM	GRID	RACE TIME	POINTS
Nico Rosberg	Mercedes	1	1:17:28.89	25
Lewis Hamilton	Mercedes	2	0:0:15.500	18
Sebastian Vettel	Ferrari	3	0:0:21.0	15
Kimi Raikkonen	Ferrari	4	0:0:27.600	12
Daniel Ricciardo	Red Bull	5	0:0:45.300	10
Valtteri Bottas	Williams	6	0:0:51.0	8
Max Verstappen	Red Bull	7	0:0:54.200	6
Sergio Perez	Force India	8	0:1:5.0	4
Felipe Massa	Williams	9	0:1:5.600	2
Nico Hulkenberg	Force India	10	0:1:18.700	1
Romain Grosjean	Haas F1 Team	11	No Time	
Jenson Button	McLaren	12	No Time	
Esteban Gutierrez	Haas F1 Team	13	No Time	
Fernando Alonso	McLaren	14	No Time	
Carlos Sainz	Toro Rosso	15	No Time	
Marcus Ericsson	Sauber	16	No Time	
Kevin Magnussen	Renault	17	No Time	

ComplianceChecker

```

1 <aura:component implements="force:hasRecordId,flexipage:avc"
2   <aura:dependency resource="markup://force:editRecord" t
3   <aura:attribute name="category" type="String" default='
4   <aura:attribute name="messages" type="String[]"/>
5   <aura:handler name="init" value="{!this}" action="{!c.c
6   <aura:handler event="force:refreshView" action="{!c.onk
7   <div class="{!$!slds-box slds-theme--' + v.category}">
8     <aura:iteration items="{!v.messages}" var="message"
9     <p><ui:outputText value="{!message}"/></p>
10    </aura:iteration>
11  </div>
12 </aura:component>

```

Outline

- ComplianceChecker.cmp
 - category : String("success")
 - messages : String[]
 - init : {!this} : {!c.onInit}
 - force:refreshView : {!c.onRefreshView}
- ComplianceCheckerController.js
 - onInit(component, event, helper)
 - onRefreshView(component, event, helper)
- ComplianceCheckerHelper.js
 - verifyCompliance(component)

Markup Design Controller Helper

Overview

Applications

Components

- aura
- ff2
- force
- forceChatter
- ltng
- ui
 - actionMenuItem
 - button
 - checkboxMenuItem
 - inputCheckbox

Reference Overview

The Reference tab enables you to browse API information as well as source code for all the definitions, such as components, in Aura.

APIs

Click **JavaScript API** to see the publicly accessible methods for each JavaScript object. The `$.A` namespace is the entry point for using the framework in JavaScript code.

Definitions



Standings

	DRIVER	TEAM	WINS	POINTS
1	Lewis Hamilton	Mercedes	1	43
2	Nico Rosberg	Mercedes	1	25
3	Sebastian Vettel	Ferrari	0	15
4	Kimi Raikkonen	Ferrari	0	12
5	Daniel Ricciardo	Red Bull	0	10
6	Valtteri Bottas	Williams	0	8
7	Max Verstappen	Red Bull	0	6
8	Sergio Perez	Force India	0	4
9	Felipe Massa	Williams	0	2
10	Nico Hulkenberg	Force India	0	1



Race Calendar

Malaysia

Kuala Lumpur

9/30/2016 - 10/2/2016

Japan

Suzuka

10/7/2016 - 10/9/2016

United States

Austin

10/21/2016 - 10/23/2016

Mexico

Mexico City

10/28/2016 - 10/30/2016

Brazil

Sao Paulo

11/11/2016 - 11/13/2016

Abu Dhabi

Yas Marina

11/25/2016 - 11/27/2016

 Results Italy

DRIVER	TEAM	GRID	RACE TIME	POINTS
Nico Rosberg	Mercedes	1	1:17:28.89	25
Lewis Hamilton	Mercedes	2	0:0:15.100	18
Sebastian Vettel	Ferrari	3	0:0:21.0	15
Kimi Raikkonen	Ferrari	4	0:0:27.600	12
Daniel Ricciardo	Red Bull	5	0:0:45.300	10
Valtteri Bottas	Williams	6	0:0:51.0	8
Max Verstappen	Red Bull	7	0:0:54.200	6
Sergio Perez	Force India	8	0:1:5.0	4
Felipe Massa	Williams	9	0:1:5.600	2
Nico Hulkenberg	Force India	10	0:1:18.700	1

Add Drivers

DRIVER NAME

- Carlos Sainz
- Daniel Ricciardo
- Daniil Kvyat
- Esteban Gutierrez
- Esteban Ocon
- Felipe Massa

[Cancel](#) [Add Drivers](#)

[Cars](#) [Teams](#) [Seasons](#) [Races](#) [Race Data](#)

Add Drivers ×







Added 3 drivers.

Lightning Components






Search components...



-  Record Detail
-  Related Lists
-  Report Chart
-  Rich Text
-  Tabs
-  Visualforce

▼ Custom (4)

- Compliance Checker
-  Race Calendar
-  Race Results
-  Race Standings

▼ Custom - Managed (0)

No components available.

Search Salesforce

Home Drivers Cars Teams Seasons Races Race Data

Add Drivers

DRIVER NAME

- Carlos Sainz
- Daniel Ricciardo
- Daniil Kvyat
- Esteban Gutierrez
- Esteban Ocon
- Felipe Massa

Cancel Add Drivers

Last Modified By No updates here



+ Follow Add Drivers New Contact

RELATED DETAILS **RACE RESULTS**

Results

DRIVER	TEAM	GRID	RACE TIME	POINTS
Nico Rosberg	Mercedes	1	1:17:28.89	25
Lewis Hamilton	Mercedes	2	0:0:15.100	18
Sebastian Vettel	Ferrari	3	0:0:21.0	15
Kimi Raikkonen	Ferrari	4	0:0:27.600	12
Daniel Ricciardo	Red Bull	5	0:0:45.300	10
Valtteri Bottas	Williams	6	0:0:51.0	8
Max Verstappen	Red Bull	7	0:0:56.200	6

Racing Calendar

CHATTER

Post Poll Question

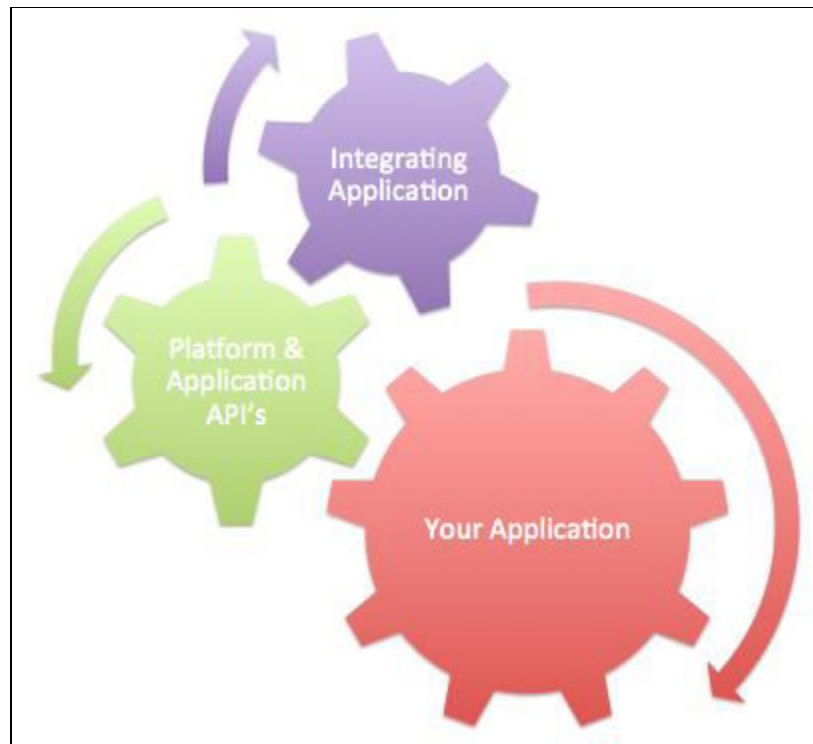
Share an update...

Latest Posts



Collaborate with others
No updates here yet.

Chapter 10: Providing Integration and Extensibility





▼ Code (5)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Update	Application		Apex Class	This is an upgraded component. It will be updated to the new version.
Update	SeasonService		Apex Class	This is an upgraded component. It will be updated to the new version.
Update	SeasonControllerTest		Apex Class	This is an upgraded component. It will be updated to the new version.
Update	ComplianceService		Apex Class	This is an upgraded component. It will be updated to the new version.
Update	SeasonServiceTest		Apex Class	This is an upgraded component. It will be updated to the new version.

Apex Class Detail Edit Security

Name ComplianceService

Namespace Prefix fforce

Last Modified By Andy Admin , 09/05/2014 12:19

Class Summary Version Settings Log Filters

Version:

global class ComplianceService
Available in Versions: 1.8 - Current

Constructors (1)

Signature
ComplianceService()

Methods (1)

Signature
static void verify(SET recordIds)

Action	Name ↑	Namespace Prefix
Edit Security	<u>Application</u>	fforce
Edit	<u>Cars</u>	fforce
Edit	<u>CarsSelector</u>	fforce
Edit	<u>ComplianceController</u>	fforce
Edit Security	<u>ComplianceService</u>	fforce

Show Dependencies

Dependency Information for Apex Class ApplicationAPITest

[« Back to Apex Class: ApplicationAPITest](#)

A dependency is created when one component references another component, permission, or preference. In addition, the object-level operational scope, that is, the data manipulation operations, are also listed. To see field-level detail of the operational scope, click Fields next to name of an object.

▼ Object Operational Scope

		Insert
Driver (Installed Package: FormulaForce)	[Fields]	<input type="checkbox"/>

▼ Apex Class, Trigger and Page References

ComplianceService (Installed Package: FormulaForce)
SeasonService (Installed Package: FormulaForce)

Apex Class

ApplicationAPITest

[Help for this Page](#) ?

[« Back to List: Apex Classes](#)

Apex Class Detail

[Edit](#)

[Delete](#)

[Download](#)

[Run Test](#)

[Security](#)

[Show Dependencies](#)

Name	ApplicationAPITest	Status	Active
Namespace Prefix		Created By	Andy Admin , 09/05/2014 12:22
Last Modified By	Andy Admin , 09/05/2014 14:08		

[Class Body](#)

[Class Summary](#)

[Version Settings](#)

[Log Filters](#)

Name	Version	Namespace	Type
Salesforce.com API	30.0		Salesforce.com API
FormulaForce	1.8	fforce	Installed Package

Apex Class		Version Settings	
Name	Version	Namespace	Type
Salesforce.com API	30.0		Salesforce.com API
FormulaForce	1.9	fforce	Installed Package

Class Summary		Version Settings		Log Filters	
Version: All Versions					
global class ComplianceService					
Available in Versions: 1.8 - Current					
Constructors (1)					
Signature		Available in Versions			
ComplianceService()		1.8 - Current			
Methods (2)					
Signature		Available in Versions			
static LIST report(SET recordIds)		1.9 - Current			
static void verify(SET recordIds)		1.8 - Current			

Code (1)				
Action	Component Name	Parent Object	Component Type	Installation Notes
Update	ComplianceService		Apex Class	This is an upgraded component. It will be updated to the new version.

Package Version Settings

Enterprise Package Version Settings

These version settings are used if an API call doesn't include version information for an installed package. This ensures backwards compatibility.

[Configure Enterprise Package Version Settings](#)

Partner Package Version Settings

These version settings are used if an API call doesn't include version information for an installed package.

[Configure Partner Package Version Settings](#)

Apex Test Result Detail

Time Started	11/05/2014 15:18
Class	ApplicationAPITest
Method Name	demoComplianceVerifyAPI
Pass/Fail	Fail
Error Message	System.AssertException: Assertion Failed: Expected failures
Stack Trace	Class.ApplicationAPITest.demoComplianceVerifyAPI: line 43, column 1

REST Explorer

ANDREW FAWCETT AT ANDREW FAWCETT ON API 30.0

Choose an HTTP method to perform on the REST API service URI below:

 GET POST PUT PATCH DELETE HEAD

Headers

Reset

Up


/services/data/v30.0/subjects/fforce__Driver__c/a02b0000

Execute

[Expand All](#) | [Collapse All](#) | [Show Raw Response](#)

attributes

- ❖ Id: **a02b0000008i13yAAA**
- ❖ OwnerId: **005b0000000w8UdAAI**
- ❖ IsDeleted: **false**
- ❖ Name: **Lewis Hamilton**
- ❖ CreatedDate: **2014-01-26T15:37:19.000+0000**
- ❖ CreatedById: **005b0000000w8UdAAI**
- ❖ LastModifiedDate: **2014-03-30T15:50:10.000+0000**
- ❖ LastModifiedById: **005b0000000w8UdAAI**
- ❖ SystemModstamp: **2014-03-30T15:50:10.000+0000**
- ❖ LastViewedDate: **2014-05-12T17:47:38.000+0000**
- ❖ LastReferencedDate: **2014-05-12T17:47:38.000+0000**
- ❖ fforce__Nationality__c: **British**
- ❖ fforce__TwitterHandle__c: **lewishamilton**
- ❖ fforce__Active__c: **true**
- ❖ fforce__DriverId__c: **12**
- ❖ fforce__ShortName__c: **HAM**
- ❖ fforce__FIASuperLicense__c: **false**
- ❖ fforce__Team__c: **a05b000000559YbAAI**

workbench  Info queries data migration utilities

REST Explorer

ANDREW FAWCETT AT ANDREW FAWCETT ON API 30.0

Choose an HTTP method to perform on the REST API service URI below:

GET
 POST
 PUT
 PATCH
 DELETE
 HEAD
 Headers Reset Up

/services/apexrest/fforce/compliance Execute

Request Body

```
{ "Ids" : [ "a02b0000008i13y" ] }
```

Expand All | Collapse All | Show Raw Response

- [Item 1]
 - recordId: **a02b0000008i13yAAA**
 - passed: **false**
 - failureReason: **Driver must have a FIA Super License.**
 - complianceCode: **4.1**

Custom Fields New

Action	Field Label	API Name	Data Type	Field Manageability	Indexed	Controlling Field	Modified By
Edit Del	Apex Class	ff2w17__ApexClass__c	Text(64)	Subscriber editable			Andrew Fawcett, 10/16/2016 9:28 AM
Edit Del	Apex Class Namespace Prefix	ff2w17__ApexClassNamespacePrefix__c	Text(16)	Subscriber editable			Andrew Fawcett, 10/16/2016 9:28 AM
Edit Del	Interface Type	ff2w17__InterfaceType__c	Text(255) (Unique Case Insensitive)	Upgradable	<input checked="" type="checkbox"/>		Andrew Fawcett, 10/16/2016 9:27 AM

Callouts Help for this Page

View: All Edit | Create New View

New

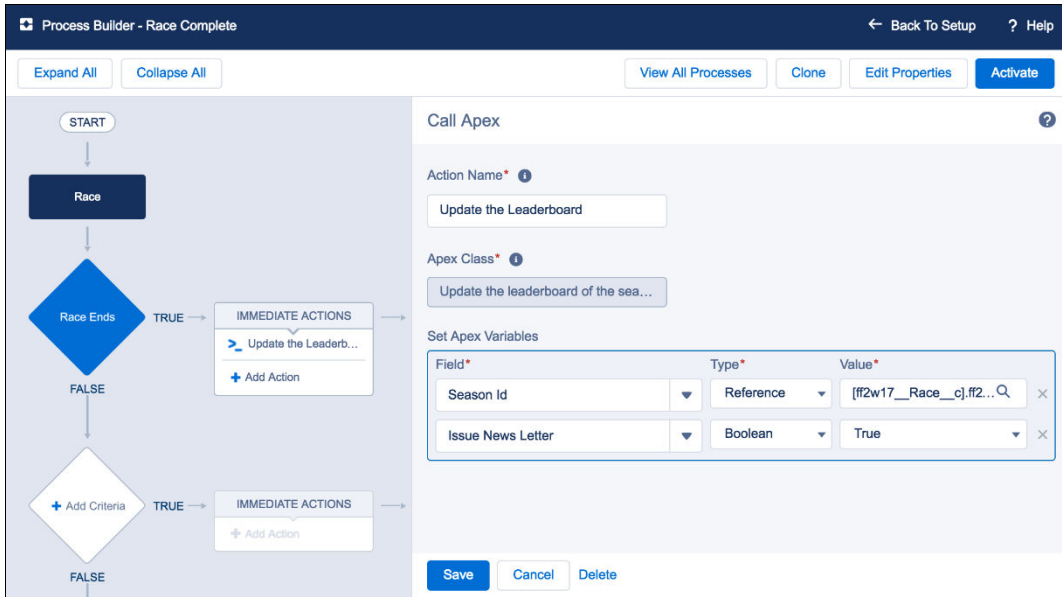
Action	Label ↑	Callout Name	Namespace Prefix	Interface Type	Protected Component
Edit Del	Award Championship Points	AwardChampionshipPoints	ff2w17	ContestantService.IAwardChampionshipPoints	<input checked="" type="checkbox"/>

Callout



Callout Edit

Information


Label	<input type="text" value="Award Championship Po"/>	Protected Component	<input checked="" type="checkbox"/>	i
Callout Name	<input type="text" value="AwardChampionshipPoir"/> i	Namespace Prefix	<input type="text" value="ff2w17"/>	
Apex Class	<input type="text" value="SimpleCalc"/>			
Apex Class Namespace Prefix	<input type="text"/>			
Interface Type	<input type="text" value="ContestantService.IAward"/>			



Chapter 11: Asynchronous Processing and Big Data Volumes

Home Seasons Teams Drivers Cars Race Data Reports +							
 All Edit Delete Create New View							
New Race Data Change Owner  A B C D E F G							
<input type="checkbox"/>	Action	Race Data Name ↑	Driver Id	Lap	Sector	Type	Value
<input type="checkbox"/>	Edit Del	RD-000030418	44	1	1	Sector Time	4.3913
<input type="checkbox"/>	Edit Del	RD-000030419	44	1	1	Fuel Level	510.0000
<input type="checkbox"/>	Edit Del	RD-000030420	44	1	1	Oil Pressure	76.3941
<input type="checkbox"/>	Edit Del	RD-000030421	44	1	1	Engine Temperature	11.6583
<input type="checkbox"/>	Edit Del	RD-000030422	44	1	1	Tyre Temperature	90.3241
<input type="checkbox"/>	Edit Del	RD-000030423	44	1	1	Track Temperature	7.9087
<input type="checkbox"/>	Edit Del	RD-000030424	44	1	2	Sector Time	2.5705
<input type="checkbox"/>	Edit Del	RD-000030425	44	1	2	Fuel Level	510.0000
<input type="checkbox"/>	Edit Del	RD-000030426	44	1	2	Oil Pressure	30.4201
<input type="checkbox"/>	Edit Del	RD-000030427	44	1	2	Engine Temperature	3.6761
<input type="checkbox"/>	Edit Del	RD-000030428	44	1	2	Tyre Temperature	62.3697
<input type="checkbox"/>	Edit Del	RD-000030429	44	1	2	Track Temperature	36.4411
<input type="checkbox"/>	Edit Del	RD-000030430	44	1	3	Sector Time	16.8990
<input type="checkbox"/>	Edit Del	RD-000030431	44	1	3	Fuel Level	510.0000
1-25 of 2000+		0 Selected		<< < Previous Next >> >>			

Current Data Storage Usage	
Record Type	Record Count
Race Data	10,000

workbench  info queries data migration utilities

REST Explorer ANDREW FAWCETT AT ANDREW FAWCETT ON API 30.0

Choose an HTTP method to perform on the REST API service URI below:

GET
 POST
 PUT
 PATCH
 DELETE
 HEAD
 Headers Reset Up

/services/data/v30.0/query?explain=select+id+from+fforce Execute

[Expand All](#) | [Collapse All](#) | [Show Raw Response](#)

- plans
 - [Item 1]
 - cardinality: **216**
 - fields
 - leadingOperationType: **TableScan**
 - relativeCost: **0.8833333333333333**
 - subjectCardinality: **2160**
 - subjectType: **fforce__RaceData__c**

- plans
 - [Item 1]
 - cardinality: **648**
 - fields
 - 0: **CreatedDate**
 - leadingOperationType: **Index**
 - relativeCost: **1**
 - subjectCardinality: **2160**
 - subjectType: **fforce__RaceData__c**
 - [Item 2]
 - cardinality: **648**
 - fields
 - leadingOperationType: **TableScan**
 - relativeCost: **1.3166666666666667**
 - subjectCardinality: **2160**
 - subjectType: **fforce__RaceData__c**

Season Detail

[Edit](#)[Delete](#)[Clone](#)

Season Name 2014

Year 2014

Current

Created By [Andrew Fawcett](#), 26/05/2014 10:34

[Edit](#)[Delete](#)[Clone](#)

Races

[New Race](#)[Race Analysis](#)

<input checked="" type="checkbox"/> Action	Race Name
<input checked="" type="checkbox"/> Edit Del	Spain
<input checked="" type="checkbox"/> Edit Del	Spa
<input checked="" type="checkbox"/> Edit Del	Silverstone
<input checked="" type="checkbox"/> Edit Del	Singapore
<input checked="" type="checkbox"/> Edit Del	Sochi
<input checked="" type="checkbox"/> Edit Del	Austin
<input checked="" type="checkbox"/> Edit Del	Budapest
<input checked="" type="checkbox"/> Edit Del	Monza
<input checked="" type="checkbox"/> Edit Del	Suzuka
<input checked="" type="checkbox"/> Edit Del	Shanghai

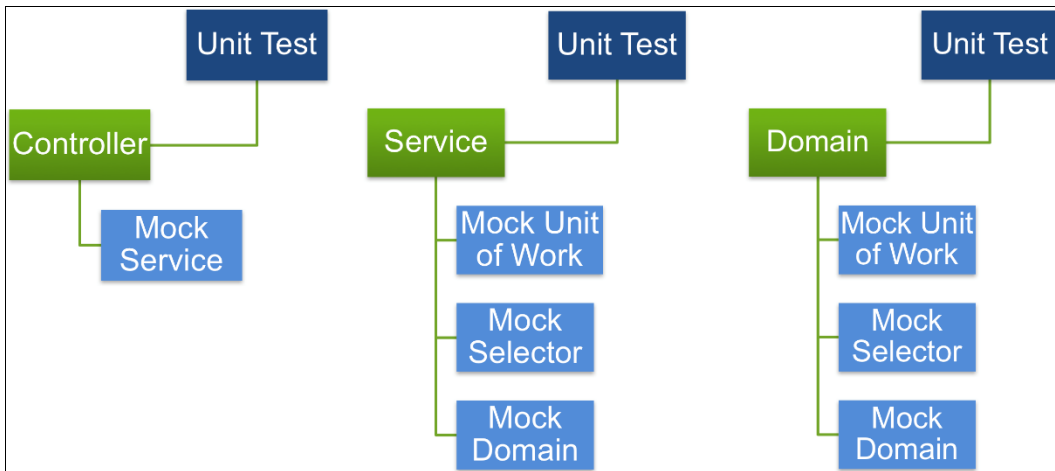
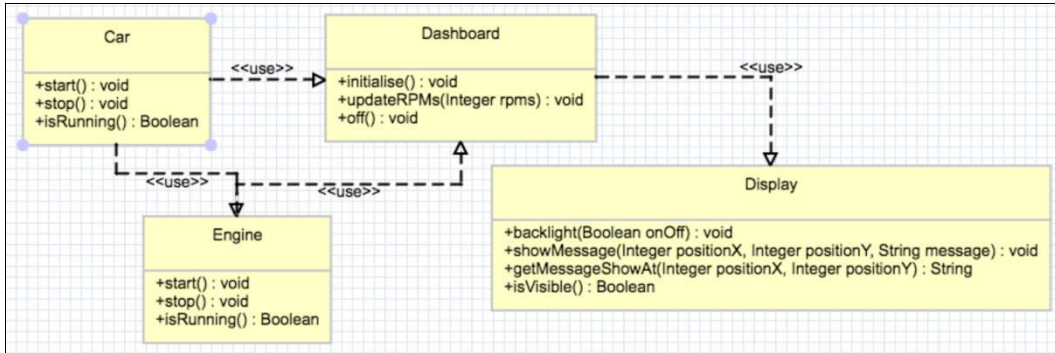
Races to Analyze

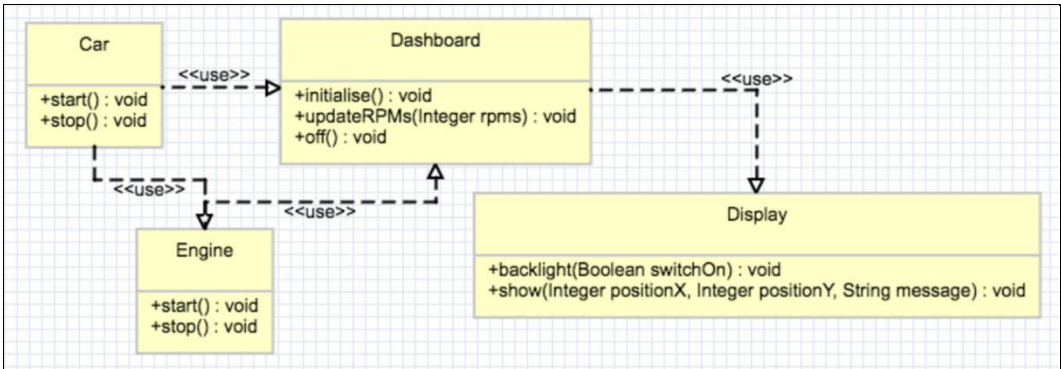
Race Name
Monza
Austin
Sochi
Singapore
Shanghai
Spain
Spa
Suzuka
Silverstone
Budapest

Races to Analyze

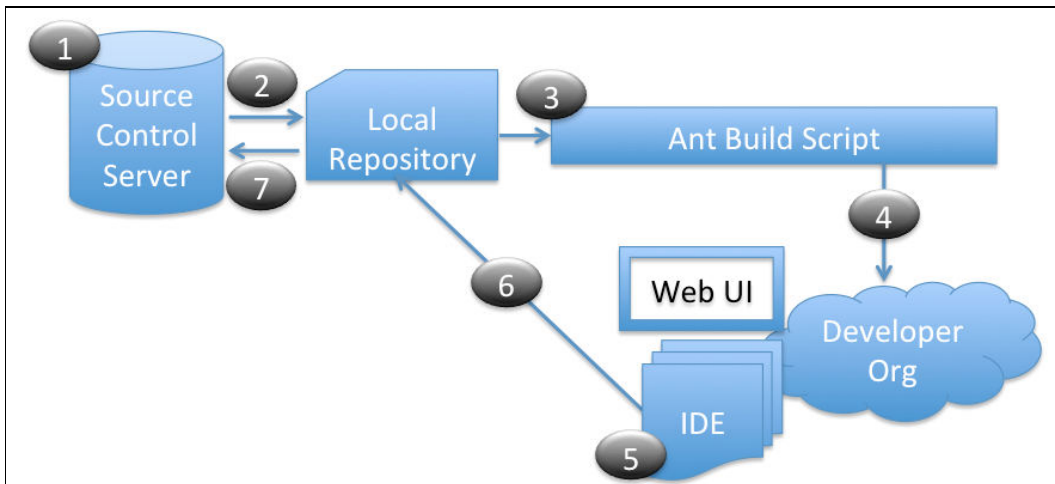
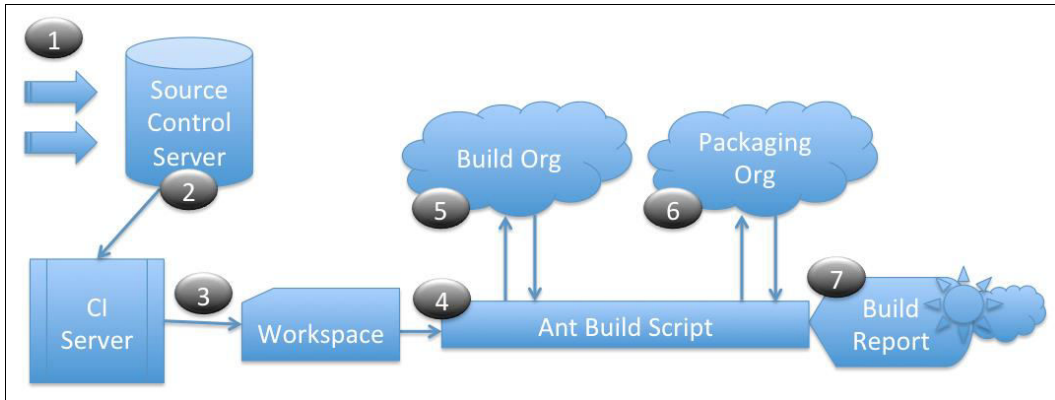
 Just read 100000 rows from RaceData__c

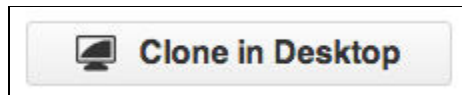
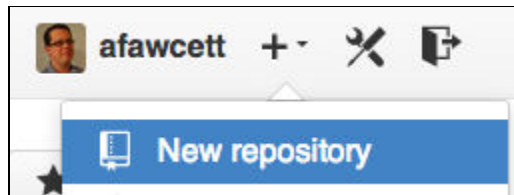
Chapter 12: Unit Testing





Chapter 13: Source Control and Continuous Integration





Folders	Folders	Documents
<ul style="list-style-type: none">srcbin.git	<ul style="list-style-type: none">applicationsclasseslabelslayoutsobjectspagespermissionsetsquickActionstabstriggers	<ul style="list-style-type: none">Application.clsApplication.cls-meta.xmlCars.clsCars.cls-meta.xmlCarsSelector.clsCarsSelector.cls-meta.xmlComplianceController.clsCompliance...ls-meta.xmlComplianceService.clsCompliance...ls-meta.xmlComplianceServiceTest.clsCompliance...ls-meta.xmlContestantController.clsContestantC...ls-meta.xml
<p>Documents</p> <ul style="list-style-type: none">build.xmlREADME.md	<p>Documents</p> <ul style="list-style-type: none">package.xml	

The screenshot shows an IDE interface with a sidebar on the left containing icons for History, Changes, Branches, and Settings. The main window is split into two panes. The left pane, titled "Committing to master", shows "Uncommitted Changes" with a "Commit & Sync" button. Below this is a text area for the commit message: "Initial commit of files to populate source control". A list of files is shown with checkboxes and "NEW" labels:

- bin/ant-salesforce.jar
- build.xml
- src/applications/RaceAnalytics.app
- src/applications/RaceManagement.app
- src/classes/Application.cls
- src/classes/Application.cls-meta.xml

The right pane shows the content of the "build.xml" file:

```
... .. @@ -0,0 +1,13 @@
1 +<project name="FormulaForce"
  xmlns:sf="antlib:com.salesforce">
2 +
3 +   <typedef
4 +     uri="antlib:com.salesforce"
5 +     resource="com/salesforce/antlib.xml"
6 +     classpath="${basedir}/bin/ant-
  salesforce.jar"/>
7 +   <target name="retrieve.package">
8 +     <sf:retrieve
9 +       username="${sf.username}"
10 +      password="${sf.password}"
11 +      retrieveTarget="${basedir}/src"
12 +      packageNames="FormulaForce"/>
13 +   </target>
+ </project> ++
```

The screenshot shows an IDE interface with a "FOLDERS" panel on the left. A context menu is open over a folder named "formulaforce-". The menu items are:

- New File
- Rename...
- New Folder...
- Delete Folder
- Find in Folder...
- Remove Folder from Project

At the bottom of the menu, there are two blue buttons: "MavensMate" and "Create MavensMate Project...".

```
FOLDERS
  ▼ formulaforce-chapter11
    ► config
    ► lib
    ▼ src
      ► applications
      ▼ classes
        Application.cls
        Application.cls-meta.xml
        Cars.cls
        Cars.cls-meta.xml
        CarsSelector.cls
        CarsSelector.cls-meta.xml
        ComplianceController.cls

ComplianceController.cls x
1 public with sharing class ComplianceController
2 {
3     private ApexPages.StandardController standar
4
5     public ComplianceController(ApexPages.Standa
6     {
7         this.standardController = standardContro
8     }
9
10    public PageReference verify()
11    {
12        try
```

```
FOLDERS
  ▼ formulaforce-chapter11
    ► config
    ► lib
    ▼ src
      ► applications
      ► classes
      ► labels
      ► layouts
      ▼ objects
        Car__c.object
        ChampionshipPoints__c.object
        Contestant__c.object
        Driver__c.object
        Race__c.object
        RaceData__c.object
        Season__c.object

RaceData__c.object x
54 <enableReports>false</enableReports>
55 <fields>
56     <fullName>Contestant__c</fullName>
57     <deleteConstraint>SetNull</deleteConstraint>
58     <externalId>>false</externalId>
59     <label>Contestant</label>
60     <referenceTo>Contestant__c</referenceTo>
61     <relationshipLabel>Race Data</relationshipLabel>
62     <relationshipName>RaceData</relationshipName>
63     <required>>false</required>
64     <trackTrending>>false</trackTrending>
65     <type>Lookup</type>
66 </fields>
67 <fields>
    <fullName>DriverId__c</fullName>
```



Jenkins search

Jenkins > Plugin Manager

[Back to Dashboard](#) Filter:

[Manage Jenkins](#)

Updates **Available** Installed Advanced

Install	Name	Version
<input checked="" type="checkbox"/>	GitHub Plugin This plugin integrates Jenkins with Github projects.	1.8

Jenkins search

Jenkins > [ENABLE AUTO REFRESH](#) [add description](#)

[New Item](#) [People](#) [Build History](#) [Manage Jenkins](#) [Credentials](#)

All +

S	W	Name ↓	Last Success	Last Failure	Last Duration
<input type="checkbox"/>		FormulaForce	N/A	N/A	N/A

Icon: [S](#) [M](#) [L](#) [Legend](#) [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)

Build Queue
No builds in the queue.




Build Executor Status


#	Status
1	Idle
2	Building FormulaForce #7

Jenkins > FormulaForce > #7

```
jenkins:
[sf:deploy] Request for a deploy submitted successfully.
[sf:deploy] Request ID for the current deploy task: 0982000000kTx1EAE
[sf:deploy] Waiting for server to finish processing the request...
[sf:deploy] Request Status: Pending
[sf:deploy] Request Status: InProgress (84/144) -- Processing Type: CustomTab
[sf:deploy] Request Status: InProgress (141/144) -- Processing Type: PermissionSet
[sf:deploy] Request Status: Succeeded
[sf:deploy] ***** DEPLOYMENT SUCCEEDED *****
[sf:deploy] Finished request 0982000000kTx1EAE successfully.
[sf:deploy] Request for a deploy submitted successfully.
[sf:deploy] Request ID for the current deploy task: 098b0000001zdkoEAC
[sf:deploy] Waiting for server to finish processing the request...
[sf:deploy] Request Status: Pending
[sf:deploy] Request Status: Pending
[sf:deploy] Request Status: Pending
[sf:deploy] Request Status: Pending
```






All +		S	W	Name ↓	Last Success	Last Failure
				FormulaForce	24 min - #7	2 min 58 sec - #8
Icon: S M L		W Description				%
			Build stability: 1 out of the last 2 builds failed.			50

All +		S	W	Name ↓	Last Success	Last Failure
				FormulaForce	3 min 25 sec - #9	11 min - #8
Icon: S M L		W Description				%
			Build stability: 1 out of the last 3 builds failed.			66

Select 

Import one or more projects from a Git Repository.

Select an import wizard:

- ▶  General
- ▶  EJB
- ▼  Git
- ▶  Projects from Git
- ▶  Install

Select a wizard to use for importing projects

Depending on the wizard, you may select a directory to determine the wizard's scope

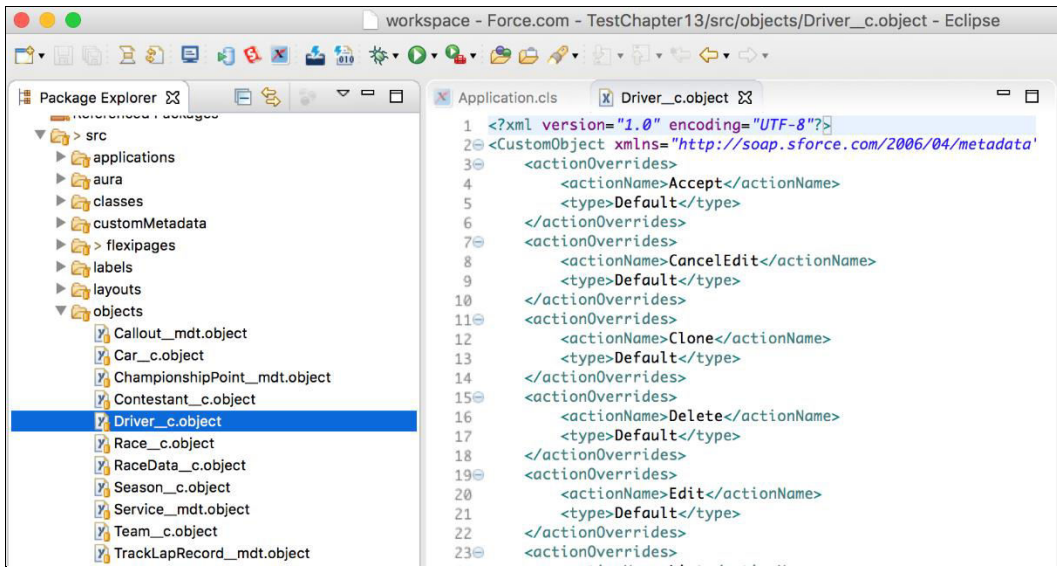
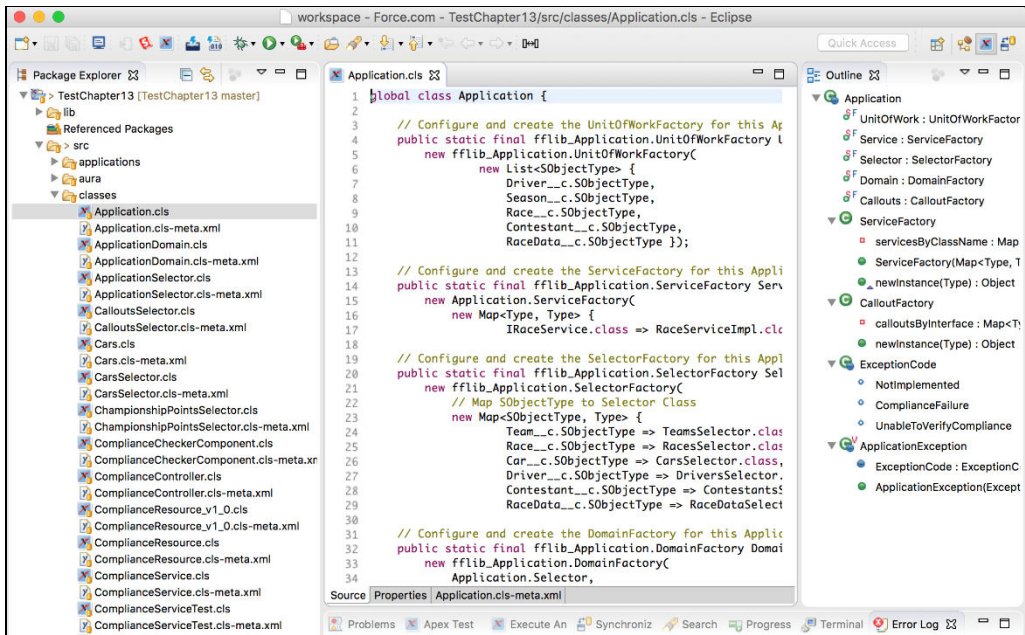


Wizard for project import

- Import existing Eclipse projects
- Import using the New Project wizard
- Import as general project

Working Tree - /Users/andrewfawcett/Documents/TestChapter13

- ▶ .git
- ▶ .settings
- ▶ lib
- ▶ src
- .DS_Store
- README.md
- build.xml



Restore from Local History...

 Force.com ▶

Team ▶

Add Force.com Nature