# HP IDOL OnDemand Hello World Tutorial Deployment Guide in Salesforce

**A challenge on TopCoder**

Youtube Link and blog link has been provided in YoutubeVideoLink.txt file.

All the coding part has been done in salesforce platform. So, except brower, we don't need anything in our local systems.

Steps to run code:

a) First create a salesforce developer account. If you are not already a member of the Force.com developer community, go to  and follow the instructions for signing up for a Developer Edition organization. If you already have a Developer Edition organization, verify that you have the "API Enabled" permission. This permission is enabled by default, but may have been changed by an administrator. To edit your profile, your will need to go to Setup | Manage Users | Profiles in the Salesforce user interface to grant the "API Enabled" permission.

b) Enable development mode
At the top of any Salesforce page, click the down arrow next to your name. From the menu under your name, select Setup or My Settings—whichever one appears.From the left pane, select one of the following:
1) If you clicked Setup, select My Personal Information | Personal Information.
2) If you clicked My Settings, select Personal | Advanced User Details.
Click Edit.Select the Development Mode checkbox.Optionally, select the Show View State in Development Mode checkbox to enable the View State tab on the development footer. This tab is useful for monitoring the performance of your Visualforce pages. Click Save.

**c) Deployment Step to your SalesForce Account.**
Before deployment, let's see you have prerequisite in your system.

To see if you have Java installed:
First, Open a command prompt. Second, At the prompt, type java -version and press Enter. The Force.com Migration Tool works with Java version 1.6.x or later. If you have an earlier version, you'll need to install Java 1.6.x or later.

Next, we need to see whether ant is installed. To see if you have Ant installed: Open a command prompt. Second, At the prompt, type ant -version and press Enter.

If any of the above is not installed, I request you to install it, before going further.

Next, Go to my submission folder and unzip that folder. Inside that folder, go to salesforce_ant_30.0 directory. Copy ant-salesforce.jar and paste into your Ant installation's lib directory. The lib directory is located in the root folder of your Ant installation. I have ant in my default location in Ubuntu. The default location is /usr/share/ant/lib, so I copied this ant to this location. You need to be a root user or copy it through terminal using sudo.

Once, you copied this, go back to salesforce_ant_30.0 directory. Inside this directory, further go to Sample directory. Open build.properties file. Inside that directory, fill sf.username, with username of your salesforce

account. Next, fill sf.password with your salesforce password and append it with your security token. To get you security token, go to your salesforce account, after this go to settings, and after that, go to reset my security token.

After this, go to terminal and take your working directory to sample directory inside salesforce_ant_30.0 . Now, run ant deployUnpackaged.

d) Go to developer.salesforce.com and login

e) Once you login, click on your name in right top and go to developer account.

j) Now, from your url of browser, copy instance.
Now in your browser type https://<Salesforce instance>.salesforce.com/apex/catalog
h) The gui will open. Now from here, you can select individual button and see the results.

Additional details are provided in video and blog.

**OOP Concepts and Other Coding Practises**

Since the application is written in APEX, I have specially tried to use OOP's concepts as much as possible. I have made a class file Idol OnDemand and used private and public appropriately. Class Variables are initialized in constructor. Private and Public methods has been included. This support both abstraction and encapsulation. Maximum effort has been done for Code Reusability. Code Modularity has been given a special attention and for different features, code is divided into different modules/methods to make it easy to read. Maximum efforts has been given, so that function name and variable names follow proper naming mechanism and are self explanatory. Comments has been included extensively to make understanding of the code a cake walk.

**Additional Functionality or features that were not requested but beneficial**

1) GUI has been made to make it more interactive.
2) I have included Store Object API, to show use of reference in OCR Document (Additional).
3) For OCR, I have done for both asynchronous and synchronous api call.
4) For all features, separate VF script is written rather than single consolidated one, to give easy user interface.

**Other Information**

To get your api key, Login to your IDOL OnDemand Page, go to Account tab on Right top.
Finally, click on "manage your API Keys" .

Files included :
Deployment guide
Important Links
salesforce_ant_30.0 directory