

HP IDOL OnDemand Hello World Tutorial Deployment Guide

A challenge on TopCoder

Youtube and blog link are provided in a separate file named as important links.

Installation Packages

I have developed ruby script on Linux(Ubuntu) Debian system.

First, we need to install Ruby. I have ruby version of :

ruby 1.9.3p484 (2013-11-22 revision 43786) [i686-linux]

In addition to this we need to install rest_client and json package. We need rest_client for post rest api call and json for converting string to json.

Additionally, I have developed GUI as well for which we need tcl/tk package. In general, this comes as default.

If it's not there, you need to install it as well. For debian system : sudo apt-get install libtcltk-ruby (for tcl/tk). Windows users can download a single click Tk installation from ActiveState's ActiveTcl.

For json package installation, type 'gem install json'.

For rest_client package installation, debian installation
sudo apt-get install ruby-rest-client. For others, you can use gem install.

Important Note: Keep all the ruby script and hello-world.jpg image into one directory.

To run, go to the directory where your script resides.

To run without gui, type

ruby display.rb

This will give you, menu driven program. Select any one option and proceed.

To run with gui, type

ruby idolgui.rb

OOP Concepts and Other Coding Practises

Since the application is written in Ruby, I have specially tried to use OOP's concepts as much as possible. I have made separate class ruby file and created another ruby script to call that ruby class. 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 OCR, I have developed function both for file and url parameters.

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 :

- a) display.rb
- b) idolgui.rb
- c) IdolOnDemand.rb
- d) Deployment Guide
- e) hello-world.jpg