# Openstack Web-Based Automation

**Introduction:**

As simple as it gets, your task is to provide a web based service allowing each user/tenant of an Openstack infrastructure to launch an instance according to his capabilities and pooled resources.

**Specifications:**

In order to do that, you have to implement a python application based on a Django web interface, through which the user/tenant can specify his requirements in terms of storage, images, network and compute. Then, through a simple submit, initiate the provision process.

The Usage of the Openstack Rest API is of course the way to go, but in some cases, direct system calls to the infrastructure from your scripts might be useful.

The web interface should allow **Authenticated** users to:

-1 Access the resources they are allowed to use

-2 select the instance specifications at all levels

-3 in case of provisioning success or failure, be notified with all the needed information (either instance access information or errors)

<http://developer.openstack.org/api-ref.html>