Indian Institute of Information Technology, Vadodara

Meetup

Deployment Document

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Revision History

Name	Date	Reason For Changes	Version

Contents

1 Overview

1.1 Purpose

The purpose of the document is to describe the process of uploading of the web application on Pythonanywhere and installing of the application online. The document will provide information about the deployment of the software solution.

1.2 Scope

The scope of the document is to make the process of deployment clear to the stakeholders of the application.

2 Pre-Conditions

2.1 Unit Testing

All the test casesmust pass before deployment.If any of the test case is not passed then, firstly the bug should be resolved and it must be ensured that all test cases are running. Then, proceed for the deployment process.

2.2 Integrated Testing

The systemmust be working as expected on a whole, that is it must have passed the integration testing before deployment process starts.

3 Deployment on Pythonanywhere

3.1 What is Pythonanywhere

Pythonanywhere is a platformbuilt on Amazon's cloud computing service. It let's you build, run and host Python services "on the cloud".

3.2 Prerequisites for Deployment on Pythonanywhere

Internet connection should be available.

3.3   Steps for Deployment

Steps to follow -

- **Upload the code on Pythonanywhere**

  If the code is already on a code sharing site like GitHub one can just clone it.

- **Create a virtual environment**

  Create an environemnt in the console, naming it after the project, and choosing the version of Python one want to use.

- **Create a web app**

  Create a web app withManual Configuration Head over to theWeb tab and create a new web app, choosing the "Manual Configuration" option and the right version of Python.

- **Create your virtual environment**

  Enter the name of your environment in the Virtual environment section on the web tab and click OK.
  Enter the path to your project folder in the Code section on the web tab in Source code and Working directory.

- **Edit the WSGI file**

  Click on the WSGI file link inside the "Code" section of theWeb tab and it will take you to an editor where one can change it. Be sure to substitute the correct path to the project, the folder that contains manage.py.
  Don't forget to substitute the username too. Also make sure to put the correct value for DJANGO_SETTINGS_MODULE version of Python one want to use.

- **Database Setup**

  To setup the database, Go to the Consoles tab, start a bash console, use

cd to navigate to the directory where your Django project's manage.py lives, then run ./manage.py migrate.

- **Check it Live**

Go visit the site, it would be live! But it probably won't be using your CSS stylesheets, JavaScript and other things that are loaded from static files. To get those set up, configure your static files.