

This tutorial contains following information:

- Creating a new flask project using PyCharm.
- Setting up the python interpreter and virtual environment in PyCharm.
- Adding and removing packages through Pycharm.

Notice: In this tutorial we hypothesised that PyCharm is already installed on your operating system. To install PyCharm please refer to ([Installing PyCharm](#)).

Step 1: Creating a new Flask Project:

- To create a new flask project open PyCharm, and from the File menu click on the New Project (File→ New Project). This will pop up the New Project window (figure 1). New project window allows to specify the initial configurations relevant to a project, including project type, project name and location, interpreter and etc. Following we explain each of these configurations:
- **Project Type:** from the left pane we can choose the type of project we are going to create. In this tutorial we create a **Flask** Project.
- **Project name and location:** This allows to choose the name and location of the project.
- **Interpreter:** We can choose the interpreter for compiling the project.
- **Project Setting:** We can specify the initial settings of the project including virtual environment.

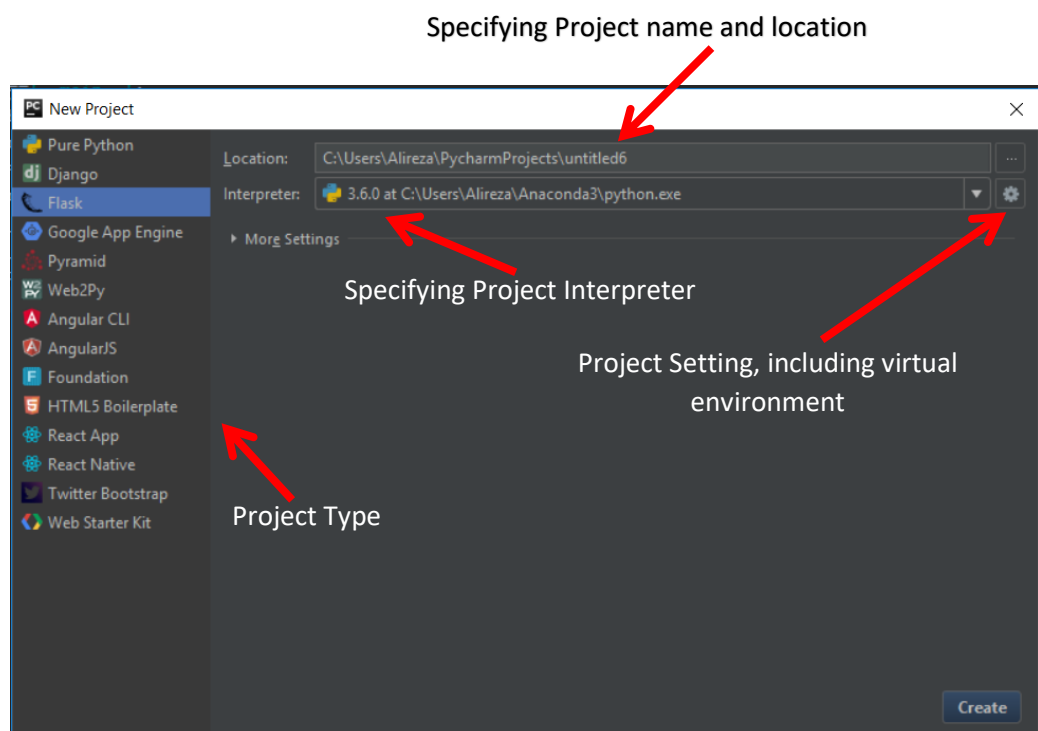


Figure 1 Create a New Project Window

Step 2: This section explains how to create a virtual environment for the project.

- Click on the project settings and choose **Create VirtualEnv** from the menu (figure 2).

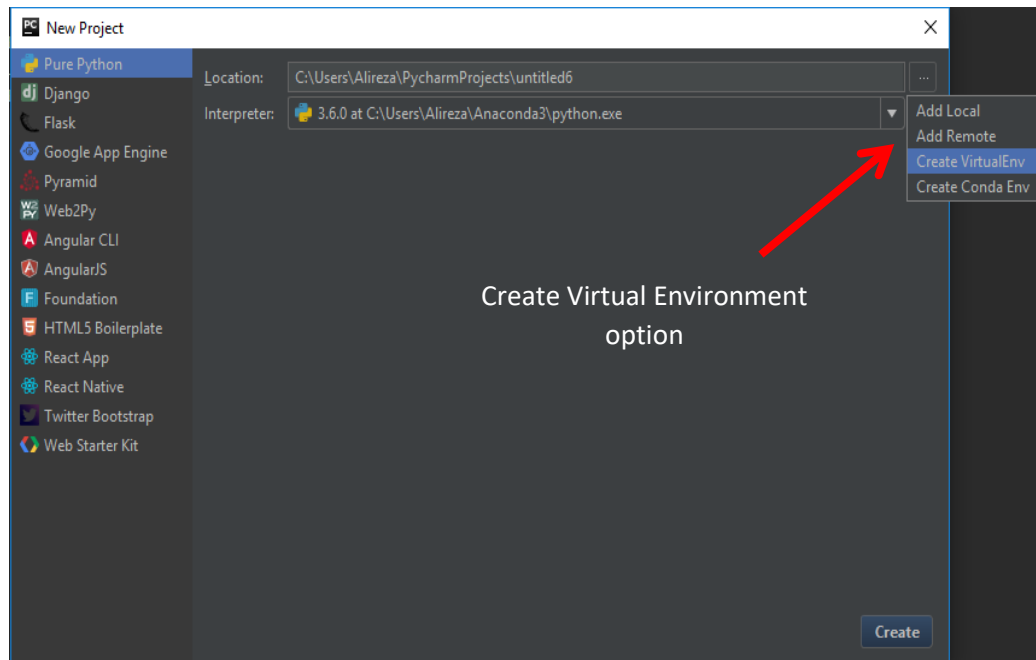


Figure 2 Creating Virtual Environment

- After choosing **Create VirtualEnv**, we need to specify **name** and **location** of virtual environment (Figure 3). For example, we specified the location of virtual environment at 'C:\User\Alireza\my_venv'. Click on Ok, PyCharm would create the virtual environment at the specified location.

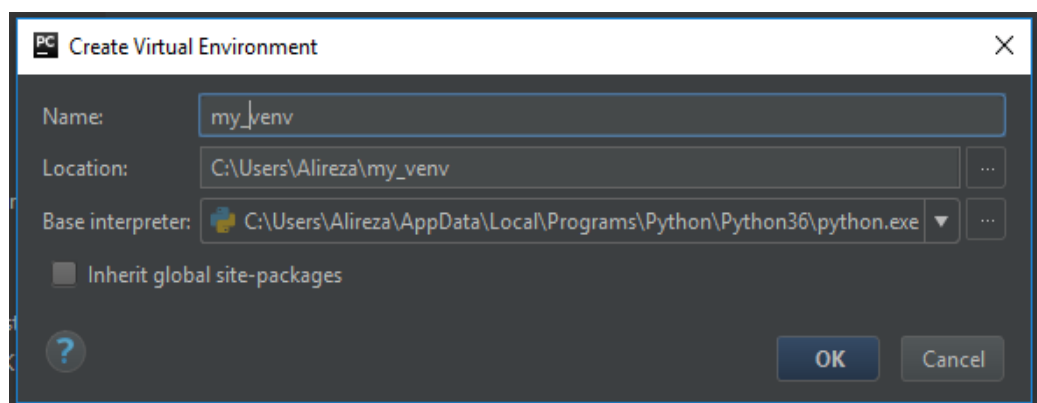


Figure 3 Configuring virtual environment

Step 3: This section explains how to install packages through Pycharm.

- Until now we have created a new project and specified the virtual environment. However, we need to install different packages for implementing our project. To add new packages from **File** menu choose **Settings** (File → Settings) (Figure 4).

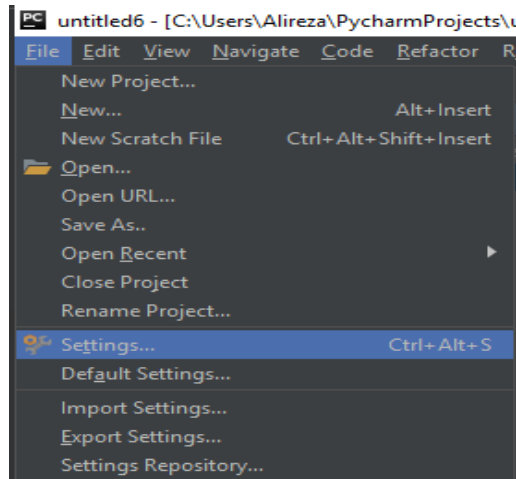


Figure 4 Project settings

- This will open the project settings window, and allows to change the configuration of the project. To add new packages to the project from the search box type 'project interpreter'.
- Click on Plus (+) button to add new packages to the project (Figure 5).

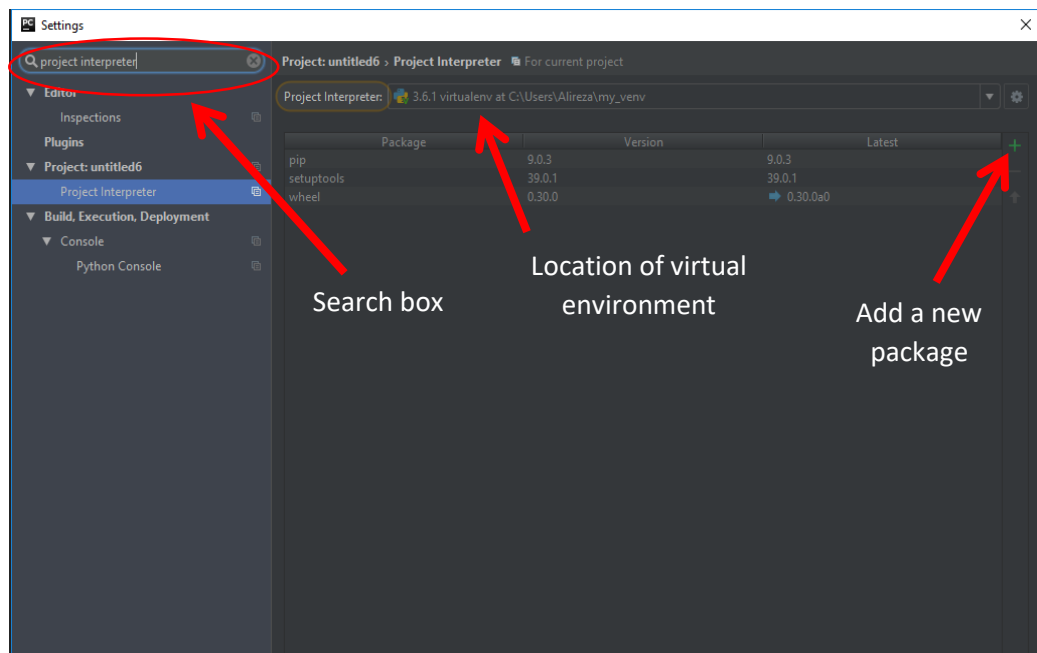


Figure 5 Project Interpreter window

- This will pop up a new window, which allows to install new packages to project. Type the package name and click on install package button (figure 6).

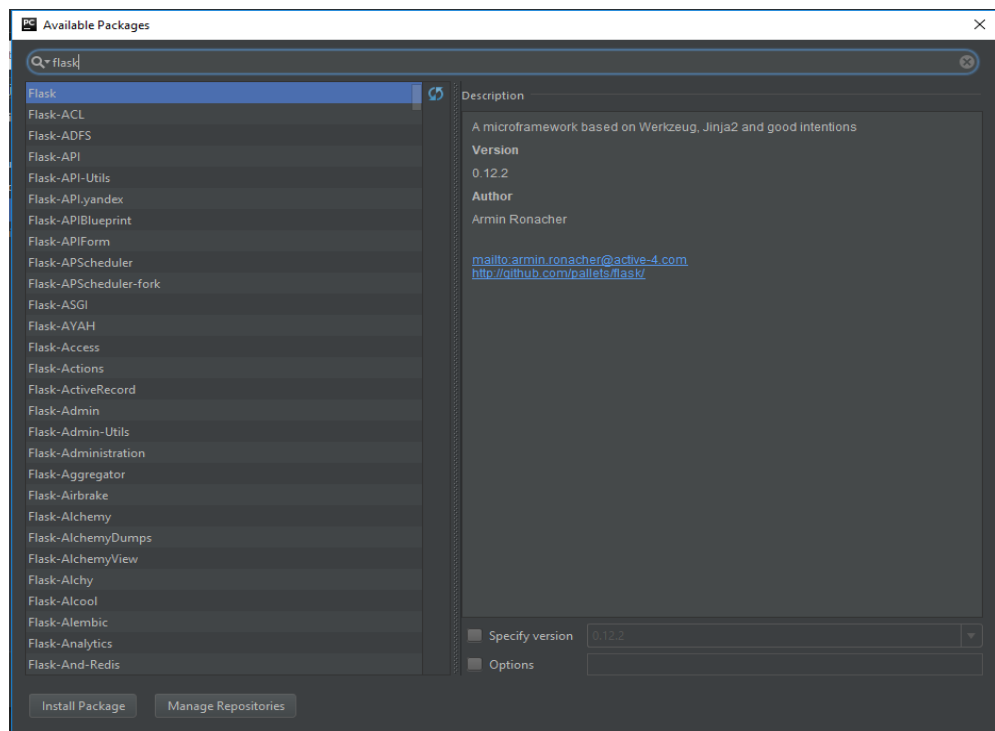


Figure 6 Installing a new package.