

EXP1. Installation of Python, Django, and Visual Studio Code on Windows

Installing Python:

1. **Download Python:** Go to the official Python website and download the latest version of Python.
2. **Run the Installer:** Open the downloaded file and run the installer. Make sure to check the box "Add Python to PATH" before clicking "Install Now".
3. **Verify Installation:**
 - Open Command Prompt.
 - Type `python --version` to check the installed version of Python.
 - Type `pip --version` to check the installed version of pip (Python's package installer).

Installing Django:

1. **Open Command Prompt.**
2. **Install Django using pip:** Type the following command and press Enter:
`python -m pip install django`
3. **Verify Installation:**
Type `django-admin --version` to check the installed version of Django.

Installing Visual Studio Code:

1. **Download VS Code:** Go to the Visual Studio Code website and download the latest version for Windows.
2. **Run the Installer:** Open the downloaded file and follow the installation instructions.
3. **Launch VS Code.**

EXP2. Creation of Virtual Environment, Django Project, and App

Creating a Virtual Environment:

1. **Open Command Prompt.**
2. **Navigate to our project directory:** Use `cd` to change directories to where We want our project to be.

```
cd path\to\our\project\directory
```

3. **Create a virtual environment:**

```
python -m venv venvname
```

4. **Activate the virtual environment:**

```
venvname/Scripts/activate
```

We should see (venv) at the beginning of our command prompt, indicating the virtual environment is active.

Creating a Django Project:

1. **Install Django in the virtual environment:**

```
python -m pip install django
```

2. **Create a Django project:**

```
django-admin startproject myproject
```

3. **Navigate to the project directory:**

```
cd myproject
```

Creating a Django App:

1. **Create an app within our project:**

```
python manage.py startapp myapp
```

2. **Add the app to our project:**

- Open `myproject/settings.py` in VS Code.
- Add 'myapp', to the `INSTALLED_APPS` list.

Running the Django Development Server:

1. Run the development server:

```
python manage.py runserver
```

2. Open a web browser and navigate to <http://127.0.0.1:8000/> to see our Django project running.