1. Open cmd from start
   1. Run command
      1. pip install virtualenv
   2. From cmd move inside 🡪 todoapp\_env folder
      1. cd todoapp\_env
   3. Activate environment via Script\activate
   4. If missing install packages
      1. pip install django
      2. pip install django\_auto\_logout
   5. Run command
      1. Python manage.py runserver
   6. If no issue is found It will show the url one can copy and open app in browser

**Components of a Django Application**

**Bootstrap**

* Widely used, open-source toolkit that provides pre-styled components for building responsive, mobile-first projects on the web.
* CSS and JavaScript-based, which makes it compatible with Django
* **Used in project: jquery, css and js only for buttons and alerts in browser**

**Models:**

* a model is the single, definitive source of data about your data
* contains the essential fields and behaviors of the data you’re storing
* **Used in project: User, TaskUser, Task**

**Views**

* A view function, or “view” for short, is a Python function that takes a web request and returns a web response
* This response can be the HTML contents of a document, a redirect, a 404 error, an XML document, an image, or anything else

**Templates:**

* Django’s template language is designed to strike a balance between power and ease. It’s designed to feel comfortable to those used to working with HTML.
* **Used in project for: user, login, logout, sign up, todoitem, todolist and home page**

**URLs:**

* A URL dispatcher is used to redirect HTTP requests to the appropriate view based on the request URL
* The URLconf maps URL patterns to views.

**Forms**

* Django provides a powerful form library that handles rendering forms as HTML, validating user-submitted data, and converting that data to native Python types.
* **Used in project: todolist and todoitem**

**Admin**

* the admin site is not directly tied to the Django project
* it is a separate application that hooks into Django projects, and is included by default when creating a new Django project.