Project: Build a Note-Taking App

Create a note-taking application using Django. Users should be able to create, view, edit, and delete notes.

1. Set up a new Django project:
   1. Create a new Django project called "notetaking" using the `django-admin startproject` command.
   2. Navigate into the project directory.
2. Create a new Django app:
   1. Create a new Django app called "notes" using the `python manage.py startapp` command.
   2. Add the "notes" app to the `INSTALLED\_APPS` list in the `settings.py` file.
3. Define the Note model:
4. In the `models.py` file of the "notes" app, define a `Note` model with the following fields:
5. `title` (CharField): The title of the note.
6. `content` (TextField): The content of the note.
7. `created\_at` (DateTimeField): The date and time when the note was created.
8. `updated\_at` (DateTimeField): The date and time when the note was last updated.
9. Run the migration using the `python manage.py makemigrations` and `python manage.py migrate` commands.
10. Create the Note views:
11. In the `views.py` file of the "notes" app, define view functions for creating, viewing, editing, and deleting notes.
12. For example, you can create functions like `create\_note`, `view\_note`, `edit\_note`, and `delete\_note` that handle the corresponding actions.
13. Use Django's class-based views or function-based views as per your preference.
14. Define the URL patterns:
15. In the `urls.py` file of the "notes" app, define URL patterns to map the views to their corresponding URLs.
16. For example, you can define URL patterns to handle create, view, edit, and delete actions respectively.

/notes/create

/notes/<note\_id>/

/notes/<note\_id>/edit

/notes/<note\_id>/delete

1. Create the Note templates:
   1. Create HTML templates for the note creation, note viewing, note editing, and note deletion pages.
   2. Use Django's template language to render dynamic content, such as displaying the note title, content, and timestamps.
2. Test the application:
3. Start the Django development server using the `python manage.py runserver` command.
4. Open your web browser and navigate to the URLs you defined for creating, viewing, editing, and deleting notes.
5. Verify that you can perform the desired actions on the notes, such as creating new notes, viewing existing notes, editing note content, and deleting notes.
6. Customize and enhance the app:
7. Customize the app's styling using CSS or a front-end framework like Bootstrap.
8. Add additional features, such as user authentication, searching and filtering notes, or organizing notes into categories or tags.
9. Deploy the app (optional):
10. If desired, deploy your note-taking app to a web server or a hosting platform of your choice to make it accessible online.