LIBRARY MANAGEMENT SYSTEM

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This project outlines the step-by-step process of setting up and developing a web application using Django, a high-level Python web framework, in conjunction with PyCharm, a powerful integrated development environment (IDE). The primary goal is to provide a comprehensive guide for creating a new Django project, configuring t development environment, and implementing essential functionaliti

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Step 1: Install PyCharm

1. **Download and Install PyCharm:**
   - o Go to the [PyCharm download page](#).
   - o Download the Community Edition (free) or Professional Edition (paid) as per your preference.
   - o Run the installer and follow the installation steps.

Step 2: Create a New Project

1. **Open PyCharm:**
   - o Open PyCharm after installation.
   - o Click on "Create New Project".
2. **Configure New Project:**
   - o Choose the location for your project.
   - o Select "Django" from the list of available project types.
   - o Click "Create" to create your project.

Step 3: Install Django

1. **Open Terminal in PyCharm:**
   - o Go to View > Tool Windows > Terminal or press Alt + F12.
2. **Install Django:**
   - o In the terminal, type the following command:

   ```sh
   Copy code
   pip install django
   ```

Step 4: Create Django Project

1. **Run Django Command:**

o   In the terminal, navigate to your project directory if not already there.

o   Type the following command to create a new Django project:

```sh
Copy code
django-admin startproject myproject
```

o   Replace myproject with the desired project name.

Step 5: Create a Django App

1. **Navigate to Project Folder:**

    o   In the terminal, navigate to the project folder created in the previous step:

```sh
Copy code
cd myproject
```

2. **Create Django App:**

    o   Type the following command to create a new app:

```sh
Copy code
python manage.py startapp myapp
```

    o   Replace myapp with the desired app name.

Step 6: Modify Code to Meet Requirements

1. **Add App to Settings:**

    o   Open myproject/settings.py.

    o   Add your app name to the INSTALLED_APPS list:

```python
Copy code
INSTALLED_APPS = [
```

```
        ...
        'myapp',
    ]
```

2. **Define Models, Views, and URLs:**
    - o Create models in myapp/models.py.
    - o Define views in myapp/views.py.
    - o Create URL patterns in myapp/urls.py and include them in the project's urls.py.

Step 7: Run the Django Server

1. **Run Server Command:**
    - o In the terminal, run the following command to start the server:

        sh
        Copy code
        python manage.py runserver

Step 8: Open the Project in Browser

1. **Open Browser:**
    - o Open your web browser.
    - o Go to http://127.0.0.1:8000 or the link displayed in the PyCharm terminal.

Step 9: Launch Your Project

1. **View Your Project:**
    - o Your project should now be running and accessible via the link provided.
    - o You can view and interact with your Django application in the browser.

THANKYOU