

System Requirements

Specification Index

For

Efficient Course Enrollment Management in a Django-Based Education Platform

(Topic:- Django Admin Interface)

Version 1.0

Problem Statement:

Your task is to implement Django models for Course and Student with the following specifications:

Course Model

- **name** → A unique name for the course (CharField, max length: 100).
- **description** → A brief summary of the course (TextField).
- **start_date** → The date when the course starts (DateField).

Student Model

- **first_name** → First name of the student (CharField, max length: 50).
- **last_name** → Last name of the student (CharField, max length: 50).
- **email** → Email address of the student (EmailField, unique=True).
- **course** → Foreign key linking the student to a course (ForeignKey, CASCADE).

Your Task:

- **Define the Course and Student models with the fields mentioned above.**
- **Ensure that the Student model has a foreign key to Course.**
- **Configure Django Admin to allow inline editing of students directly from the course page.**
- **Implement proper validation, constraints, and uniqueness where necessary.**

Execution Steps to Follow:

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to

Application menu(Three horizontal lines at left top)->Terminal->NewTerminal.

3. The editor Auto Saves the code.
4. If you want to exit (logout) and to continue the coding later anytime(using Save & Exit option on Assessment LandingPage) then you need to use CTRL+Shift+B command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
5. These are time bound assessments the timer would stop if you logout and while

logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.

6. To test any Restful application, the last option on the left panel of IDE, you can find

ThunderClient, which is the lightweight equivalent of POSTMAN.

7. To test any UI based application the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.

8. Install 'djangoestframework' module before running the code. For this use the following command.
`pip install djangoestframework`
9. Use the following command to run the server
`python3 manage.py runserver`
10. Mandatory: Before final submission run the following commands to execute testcases
`python3 manage.py test library.test.test_functional`
`python3 manage.py test library.test.test_exceptional`
`python3 manage.py test library.test.test_boundary`

11. To test rest end points

Click on 'Thunder Client' or use Ctrl+Shift+R->Click on 'New Request' (at left side of IDE)

12. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on "Submit Assessment" after you are done with code.
13. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.