Daffodil International Professional Training Institute

Web Application Development with python Batch 06

You are working on a Django project where you have three models: Student, Teacher, and Product. Your task is to retrieve data from these models and display the results with specific filtering conditions.

Models and Fields

Student Table

- id (Primary Key AutoField)
- name (CharField, max_length=100)
- age (IntegerField)
- department (CharField, max_length=50)
- email (EmailField, unique=True)
- gpa (DecimalField, max_digits=4, decimal_places=2)
- admission_date (DateField)

Teacher Table

- id (Primary Key AutoField)
- name (CharField, max length=100)
- subject (CharField, max length=100)
- district (CharField, max length=100)
- salary (DecimalField, max_digits=10, decimal_places=2)
- joining_date (DateField)
- email (EmailField, unique=True)

Product Table

- id (Primary Key AutoField)
- name (CharField, max_length=100)
- price (DecimalField, max_digits=10, decimal_places=2)
- category (CharField, max_length=50)
- stock (IntegerField)
- brand (CharField, max_length=100)
- added_date (DateTimeField)

Tasks

1. From the Student table:

- Retrieve and display all students whose age is greater than 18.
- Retrieve and display all students who are studying in the CSE department.

2. From the **Teacher table**:

- o Retrieve and display all teachers who are from the **Chittagong district**.
- o Retrieve teachers whose salary is greater than 50,000.
- o Retrieve teachers who teach the subject "Mathematics".

3. From the **Product table**:

- Retrieve and display all products whose price is greater than \$100.
- Retrieve products that belong to the "Electronics" category.
- Retrieve products whose stock is less than 10 (low stock).