

ASSIGNMENT 01 - Week 2 – Build “TechLearn Academy” System

Objective:

Build a small but realistic Django project to apply everything you learned so far: project creation, app creation, models, admin customization, templates, static files, and showing data in tables. Optionally, try image fields.

Project Requirements:

1. Create a new Django project

Project name: training_portal

App name: academy

2. Create these models in the academy app

- Course Model

- Fields:

- Course_name
 - Description
 - Duration (in weeks)
 - Course_image

- Trainer Model

- Fields:

- First_name
 - Last_name
 - Email (must be unique)
 - Expertise (e.g., "Python", "Django", "Data Science")
 - Trainer_photo

- Student Model

- Fields:

- First_name
 - Last_name
 - Email
 - Is_active
 - Enrolled_course
 - Trainer

3. Admin Customization

Customize all models as much as possible.

4. Create the Following Pages (Templates)

- Home Page

- Show:

- Total Courses

- Total Trainers

- Total Students

Hint: use `.objects.all().count()`

- Course List Page

URL: `/courses/` - Create in academy app. Hint: Use `include()` function.

- Show table with:

- Course name

- Duration

- Course image (optional)

- Description

- Trainer List Page

URL: `/trainers/`

- Show table with:

- full name

- Expertise

- Email

- trainer photo (optional)

- Student List Page

URL: `/students/`

- Show table with:

- full name

- Email

- Enrolled course name

- Trainer name

- Active or not

Final URL patterns will be:

<http://127.0.0.1:8000/>

<http://127.0.0.1:8000/academy/courses/>

<http://127.0.0.1:8000/academy/trainers/>

<http://127.0.0.1:8000/academy/students/>

OPTIONAL: Add a simple navigation bar like this:

Home | Courses | Trainers | Students

MANDATORY: Write down answers to the following questions:

1. *Explain in your own simple words, what kind of queries would you like to perform on Students, Courses, or Trainers? - No ChatGPT.*
2. *Explain in your own simple words, if you were building this for a real institute, what feature would you add next? - No ChatGPT.*

SUBMISSION INSTRUCTION

Please submit your assignment in two parts:

PART 1 — Project Link (Choose ONE)

You can submit your project in any one of the following ways:

Option A: GitHub Link (If you already know GitHub)

Upload your project files to GitHub and share the public link.

Option B: Google Drive Link (If you don't know GitHub)

Upload your full project folder to Google Drive and share the view-only link.

PART 2 — Upload a ZIP File on Tech With Rathan

Upload one ZIP file in the LMS that contains:

A folder named “screenshots”

Inside it, include the following screenshots:

- Django Admin showing all 3 models (Course, Trainer, Student)
- Course List Page
- Trainer List Page
- Student List Page
- Home Page

Important Notes:

Do NOT upload the full project on Tech With Rathan

Make sure all screenshots are clear.

Your ZIP file must be small and only contain the files listed above.

Example screenshot:

<https://snipboard.io/N0cUTS.jpg>

All the best,
Rathan Kumar
Tech With Rathan