

Web Development Using Application Frameworks

Coding Assignment: Migrations

Instructions

Overview

The Forms coding assignment is the next in a series of assignments in which we will be developing the EZ University database system, a full C-R-U-D database application for a simplified university record keeping. In the Migrations coding assignment, we work with database migrations.

Tools

I am expecting you to use the tools that are demonstrated in the tutorial videos: Anaconda and PyCharm.

Tool Versions

In the current semester, I am expecting you to use Python 3.8 and Django 3.1.

Starter Files

Please note that I have provided starter files for use in the tutorial. You may download them from the Weekly Schedule:

- `ez_university_migration_tutorial_starter_files.zip`

Tutorial Parts

This is a two-part tutorial.

Part 1 – Load Instructor Test Data

In this part, we create and execute a data migration script to load 125 new instructors into the data base. Most of the code for this part is provided in starter files. During the tutorial, you follow my work as we install the code provided, and test.

Part 2 – Load Student Test Data

In this part, we create and execute a data migration script to load 125 new students into the data base. During the tutorial you follow my work as we clone the code provided in Part 1 to create a data load script for students. Student name data is provided in a starter file.

Code Deliverables

You are expected to submit a properly organized PyCharm Django project that is ready to be tested using PyCharm. Please refer to my tutorial video for details.

Non-Code Deliverables

Please be sure that the project you submit includes the following:

1. A test user (username = “tester”, password = “(secret)”
2. Sufficient test data present in the database to allow for testing all functions

Submission Method

Follow the process that I demonstrated in the tutorial video on submitting your work. This involves:

- Locating the properly named directory associated with your project in the file system.
- Compressing that directory into a single .ZIP file using a utility program.
- Submitting the properly named zip file to the submission activity for this assignment.

File and Directory Naming

Please use the following naming scheme for naming your PyCharm project:

surname_givenname_ezu

If this were my own project, I would name my PyCharm project as follows:

trainor_kevin_ezu

Use a zip utility to create one zip file that contain the PyCharm project directory. The zip file should be named according to the following scheme:

surname_givenname_ezu.zip

If this were my own project, I would name the zip file as follows:

trainor_kevin_ezu.zip

PLEASE NOTE: All file and directory names must be in lower case. Deductions will be made for submissions that do not conform to this standard.

Due Date

Please see the Weekly Schedule for the date and time when this assignment is due.

Last Revised
2021-03-19