

Web Development Using Application Frameworks

Coding Assignment: Forms

Instructions

Overview

The Forms coding assignment is the fifth 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 Forms coding assignment, we add Create, Update, and Delete functionality for each of the EZ University model classes. The result is a full-featured C-R-U-D application.

Tools

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

Tool Versions

In the current semester, I am expecting you to use Python 3.6 and Django 2.1.X.

Tutorial Parts

This is a four-part tutorial, consisting of Parts 0, 1, 2, and 3.

Part 0 has been given this unusual name to indicate that it does not introduce new functionality. Instead, it is a quick refactoring of the code in `views.py` associated with each of the detail views. In this refactoring, we change the view code to use the `render()` method rather than the `render_to_response()` method. `render_to_response()` has been deprecated and was included in solutions to previous assignments accidentally.

In **Part 1**, we implement the *Create* pages. During the video, I code and test all parts required to implement the *Create* pages for the following EZ University model classes:

- Instructor
- Section

While doing so, I use the following checklist:

1. Create the ModelForm subclass _____Form in forms.py.
2. Create the template for this page: _____form.html .
3. Create the URL Pattern for this page.
4. Create the class-based view for this page: _____Create in views.py.
5. In the _____list.html file:
 - a. Add the Create New _____ link code.
6. Test.

At the end of the Part 1 tutorial video, you are instructed to perform similar coding and testing for the remaining EZ University model classes on your own:

- Course
- Semester
- Student
- Registration

In **Part 2**, we implement the *Update* pages. During the video, I code and test all parts required to implement the *Update* pages for the following EZ University model classes:

- Instructor
- Section

While doing so, I use the following checklist:

1. Create the URL Pattern for this page.
2. Add the `get_update_url()` method to the model class in `models.py`.
3. Add the `_____Update` CBV to `views.py` (replace underscores with model class name).
4. Create the `_____form_update.html` file: (replace underscores with model class name).
5. In the `_____detail.html` file:
 - add the Edit `_____` link code.
6. Test.

At the end of the Part 2 tutorial video, you are instructed to perform similar coding and testing for the remaining EZ University model classes on your own:

- Course
- Semester
- Student
- Registration

In **Part 3**, we implement the *Delete* pages. During the video, I code and test all parts required to implement the *Delete* pages for the following EZ University model classes:

- Instructor
- Section

While doing so, I use the following checklist:

1. Create the URL Pattern for this page.
2. Add the `get_delete_url()` method to the model class in `models.py` .
3. Add the `_____Delete` CBV to `views.py` (replace underscores with model class name).
4. Create the `_____confirm_delete.html` file.
5. If appropriate (not Registration model class), create the `_____refuse_delete.html` file.
6. In the `_____detail.html` file:
 - add the Delete `_____` link code.
7. Test

At the end of the Part 3 tutorial video, you are instructed to perform similar coding and testing for the remaining EZ University model classes on your own:

- Course
- Semester
- Student
- Registration

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

Submit 1 properly named and properly organized zip file containing your PyCharm project. Remember to use the following naming conventions:

- Project Name: yourLastName_yourFirstName_ez_university
- File Name: yourLastName_yourFirstName_ez_university.zip

Due Date

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