

COMP-8347-91 I/S 2020
Final Project Tasks
Due Date: Thursday August 20

The final project involves extending the E-Learning webapp (*mysiteS21/myapp*) you developed in your labs/assignments. **The project is worth 20 points.**

- The project consists of implementing REQUIRED and OPTIONAL features.
- You must complete ALL the required features.
- You will get a maximum of two BONUS points if you implement all the optional features. If you do two optional features out of four, you will get 1 bonus point and so on.

[20 points] REQUIRED FEATURES

1. In *admin.py* create a class **CourseAdmin(admin.ModelAdmin)**, register this with the admin site and show the *name*, *topic*, *price*, *hours*, and *for_everyone* fields, for each **Course**, in the admin interface page that lists all Courses. (1)
2. In *admin.py* write an action **add_50_to_hours (...)** for **CourseAdmin** class that will add 10 to the current value of the *hours* field for the selected *courses* and save the updated value in the database. (2)
3. In *admin.py* create a class **StudentAdmin(admin.ModelAdmin)**, register this with the admin site and show the *first_name*, *last_name*, *city* fields. Define **upper_case_name (...)** function to display the student's first and last name in uppercase. Make the short description of this function Student Full Name. (2)
4. Add '**register**' view that allows a user to register as a *Student*. Update *myapp/urls.py* and create *register.html* with suitable content. This feature involves creating a ModelForm named **RegisterForm** that is based on Student model. The form should include the fields: *username*, *password*, *first name*, *last name*, *city*, *interested_in*. Design the form with labels and widgets as appropriate. Instantiate this form in *register()* view and pass it to *register.html* for display. (6)
5. Update the *user_login* view created in Lab 8 so that if a user who is not logged in goes to url *'/myapp/myaccount/'* they will be directed to the login page and after successful login they will go directly to the *'/myapp/myaccount/'* page (instead of the main index page). (2)
6. Update *base.html* so that if a user is logged in, it will display **Logout** (*myapp/logout*) and **My Account** (*myapp/myaccount*) links. Otherwise it will display **Register Here** (*myapp/register*) and **Login** (*myapp/login*) links. Each link should go to the corresponding view function defined earlier (in Lab 8 or in step 4 or 5 above). (3)
7. Update *base.html* so that if a user is logged in, it will display "Hello <first_name><last_name>" instead of "Hello User". Here <first_name> and <last_name> are the first name and last name of the user that is currently logged in, respectively. (1)
8. Add a '**Forgot password**' link on login page. It should email a new password to the user. (3)

[2 points BONUS (max)] OPTIONAL FEATURES

1. Save db in JSON format. Load initial data using fixtures
2. Add validators for *price* field in **Course** model so that it is between 100 and 200. If you're asked to add validators to one more field, which field you'll choose.
3. Upload image file. Add an optional field *image* field for a **Student** to upload his/her photo.
4. Use Bootstrap to style your pages.
5. Any additional feature(s) you want to include.