

COMP-8347: Internet Applications and Distributed Systems

I/S 2019 Final Project Tasks

Due Date: *To be submitted with final project*

The final project will involve extending the application (*mysiteS19/myapp*) you developed in your labs/assignments. You must complete the REQUIRED features. In addition, there are some suggested optional features that you can incorporate into your project. The more extra features you add the better. If you would like to include features that are not on this list, please email me with your suggestions. Your grade on the project will be determined by your implementation of both the required and optional features.

REQUIRED FEATURES

1. In *admin.py* create a class **ProductAdmin(admin.ModelAdmin)**, register this with the admin site and show the *name*, *category*, *price*, and *available* fields, for each **Product**, in the admin interface page that lists all Products.
2. In *admin.py* write and **action** for **ProductAdmin** class that will add 50 to the current value of the *stock* field for the selected *products* and save the updated value in the database.
3. Add 'register' view that allows a user to register as a *Client*. Update *myapp/urls.py* and create *register.html*
4. Update the *user_login* view created in Lab 7 so that if a user who is not logged in goes to url *'/myapp/myorders/'* they will be directed to the login page and after successful login they will go directly to the *'/myapp/myorders/'* page (instead of the main index page).
5. Update *base.html* so that if a user is logged in, it will display *Logout (myapp/logout)* and *My Orders (myapp/myorders)* 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 7 or in step 3 or 4 above).
6. Update *base.html* so that if a user is logged in, it will display "Hello <first_name>" instead of "Hello User". Here <first_name> is the first name of the user that is currently logged in.

OPTIONAL FEATURES

1. Save db in JSON format. Load initial data using fixtures
2. Add validators for *stock* field in **Product** model so that it is between 0 and 1000.
3. Upload image file. Add an optional field *image* field for a **Client** to upload his/her photo.
4. Update *index* and *detail* view functions in *views.py* to use class based views (CBV).
5. Use Bootstrap to style your pages
6. In *admin.py* create a class **ClientAdmin(admin.ModelAdmin)**, register this with the admin site and show the *first_name*, *last_name*, *city* fields and list of categories the client is interested in, for each client, in the admin interface page that lists all clients.
7. Add a 'Forgot password' link on login page. It should email a new password to the user.
8. Any additional feature(s) you want to include.