

Cafe project

Maktab 52

Phase 2#:

In this phase you have to integrate the project on the server using the **Flask** web framework.

Tasks

1. Database:

Create the Database schema based on the analyzes performed in the previous phase.

Create and initialize tables and relations between entities into the **PostgreSql** database.

Notice that constantly changing the database schema may make your system **buggy** in the future!

2. Models:

Implement and integrate the models developed in the previous phase with the Database.

Use **psycopg2** package to connect your models to the database.

* In this phase models must be fully connected to the database.

Before developing next tasks, make sure that you can easily Create, Read, Update, Delete every model into/from the database.

(Optional) It's suggested to develop **DatabaseManagers** units using psycopg2 to bring **reusability** and **clean code** to the project.

3. Flask configuration:

First, create your Virtual environment into the project directory.

Then install the latest version of **flask** using pip, and initialize your flask application.

Analyze your project architecture, packages, modules and views you need according to your business requirements.

Packaging example:

- core
- landing
- cashier
- orders
- ...

4. Implementing Flask views:

It's time to complete the puzzle!

Integrate your project using views, to handle http requests and prepare appropriate http responses.

Use **Jinja2** template engine to pass and handle data into the templates from views.

You can create models into the database, get information from models, update some models and other actions into the flask views to implement your business context flow.

Routing example:

Landing pages:

- **GET /:** Landing page
- **GET /about:** About page
- **GET /menu:** Menu page
- **POST /order:** to create a new order into the database.
- ...

Cashier panel:

- **GET /cashier:** Cashier panel (**requires login!**)
- **GET /cashier/dashboard:** Cashier panel -> Dashboard page.
- **GET /cashier/table:** Show tables
- **GET /cashier/order:** Show Orders
- **GET /cashier/order/served:** Show served Orders
- **POST /cashier/new_menu_item:** To create new menu items.
- ...