

Specification Sheet for Web Application Development with Python

Level-4

Job 1: Develop a Calorie Counter

Develop a Calorie Counter that can be used to estimate the number of calories a person needs to consume each day. This calculator can also provide some simple guidelines for gaining or losing weight. Users can also keep track of how many calories he/she needs and how much he/she consumes in a day. To calculate calories, we have two formulas:

For a male

$$\text{BMR} = 66.47 + (13.75 \times \text{weight in kg}) + (5.003 \times \text{height in cm}) - (6.755 \times \text{age in years})$$

For a female

$$\text{BMR} = 655.1 + (9.563 \times \text{weight in kg}) + (1.850 \times \text{height in cm}) - (4.676 \times \text{age in years})$$

Job Specification information:

1. Create a new Django project named Name_ID_CaloryCounter and a Calorie Counter app.
2. Define your Calorie Counter models.
3. Create views for Login (username/email and password) and Registration (username, email, password, confirm password) pages.
4. Create a django-form to take input Name, Age, Gender, Height, Weight etc.
5. Create a Django form to take input daily consumed calories (Item name, Calorie consumed)
6. Create a dashboard where the user can view the required calories for her/him and the consumed calories daily.
7. Define URL Patterns and configure project-level URLs.
8. Implement the required Function and Logic in the view.py file.

Job Specification information:

- a. Create a new Django project. (Naming Convention: Name_ID_CaloryCounter)
- b. Run migration to create the data tables.
- c. Create a super user. (username: admin, password: 1234)
- d. Register your models to the Django admin.