

Web Application Framework (WAF)

Fall 2024

Lab Task 5

Submission Deadline: 16/12/24 before 17:50

Submission Folder: WAF-F24-T5

✓ Write organized code using MVC design pattern. Organize code for the part of controller application logic and model part for business logic. First, generate a file of 1000 instances from mockaroo.com. Name the file as **productsInformation**. This file should have the following fields: **Product Name**, **Firm Name**, **Price**, **Quantity**, and **Expiry Date**.

✓ Connect to a remote database called "**GroceryItems**." Insert information in **productsInformation** into the database collection "**products**." Create **RestAPIs** and do the following CRUD operations:

- ✓ • **Fetch all products** from the products collection. Fetch **certain products** with prices ranging from **Rs. 500 to 1000**. For example, fetch **spaghetti** having a price range from 100 to 150.
- ✓ • **Fetch all expired products**.
- ✓ • Fetch products having a quantity of less than 50.
- ✓ • Fetch products of certain firms.
- ✓ • Fetch expired products.
- ✓ • Delete expired products.
- ✓ • Update the price of products for certain firms. For example, update the price of **bake parlour pasta**.

The following link is useful for using methods to perform CRUD operations:

[Mongoose v8.8.4: Model](#)