

# Web Application Framework (WAF)

**Fall 2025**

## Lab Task 5

Submission Deadline: **14/10/25 before 15:30**

Submission Folder: **WAF-F25-T5**

**[CLO-2]**

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Write organized code using MVC design pattern. Organize code for the part of the controller application logic and the 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 and the local 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 the bake parlour pasta.

There is useful information for using methods to perform CRUD operations on mongoose documentation.