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BSI/T- 3E Web Programming 2

#### **Individual Performance Test #1**

# **Objective**

The performance test aims to evaluate your ability to retrieve, sort, and select backend courses data according to specified requirements.

#### **Test Procedure Documentation**

#### 1. Test Steps:

#### a. Database Tool Installation:

- Obtain the MongoDB Database tool.
- Set it up by following the provided installation steps.

# b. Backend API Endpoint Setup:

 Make a backend API endpoint for the provided course data using this command: `mongoimport --db mongo-test --collection courses --file courses.json --jsonArray`.

#### c. Test Scenarios:

- Get all backend courses and put them in alphabetical order.
- Pick and list the name and specialization of each course.
- Get all BSIS and BSIT courses from the curriculum.

#### d. Data Validation:

- Check data at each step to be sure it's right:
- Confirm the alphabetical order is correct.
- Make sure names and specializations are taken out right.
- Check that BSIS and BSIT courses are grabbed correctly.

## 2. Challenges Faced:

### a. MongoDB Installation Issues:

 Had trouble installing MongoDB due to compatibility issues; fixed it by following the setup guide and making sure the system met the requirements.

## **b. Data Validation Complexity:**

Found it hard to check data, especially dealing with special characters in course names;
solved it by testing more and improving the checks, especially for special characters.

## 3. Solutions Implemented:

### a. Documentation Review:

• Checked the MongoDB installation guide again to handle installation problems, making sure each step was followed.

### **b. Improved Validation Approach:**

 Made the data checks better by adding more tests, handling special characters better, and making sure everything was more accurate.