**CS673 Software Engineering** 

**Team 3 - Project Name**

**Software Test Document**

| Team Member | Role(s) | Signature | Date |
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|  |  |  |  |

**Revision history**

| **Version** | **Author** | **Date** | **Change** |
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# Testing Summary

**The following features of the website will be tested:**

1. **User Registration, Login, and Profile Management**
2. **Dietary Input and Management**
3. **Diet Tracking and Reporting**
4. **Data Privacy and Security**

### 1. User Registration, Login, and Profile Management

* Registering a new user account
* Logging in with an existing user account
* Recovering lost password
* Editing and saving changes in the user profile

### 2. Dietary Input and Management

* Adding, editing, and deleting food items
* Searching and filtering food items

### 3. Diet Tracking and Reporting

* Tracking food consumption daily, weekly, and monthly
* Generating dietary reports and insights

### 4. Data Privacy and Security

* User data protection in transit and at rest
* Proper functioning of user consent mechanisms

**Method**

* **Unit Testing**: For testing individual components/functions of the application.
* **Integration Testing**: To test the interaction between different components of the application.
* **System Testing**: To validate the application's functionality, performance, and reliability.
* **Acceptance Testing**: To ensure the system satisfies the requirements and is ready for delivery.
* **Security Testing**: To identify any potential vulnerabilities or weaknesses.
* **Performance Testing**: To ensure the system performs well under expected and peak load.

## Pass/Fail Criteria

**A test will be considered a pass when:**

* The functionality works as expected according to the requirement specification.
* The application can handle the expected number of users and load.
* No critical security issues are found.

**A test will be considered a fail when:**

* The functionality does not work as expected.
* The application performance is not up to the mark.
* There are security issues that can lead to data leakage or unauthorized access.

*Features or components that are not developed as part of this project, such as third-party APIs or libraries, will not be tested.*

Currently, there haven't been any defined or executed tests. Nonetheless, we intend to carry out Unit Testing on each individual backend function to ensure the accurate mapping of frontend elements and backend routing.

# Manual Testing Report

Here is a sample template that can be used for each test case. For system tests or acceptance tests, you may also include some screenshots.

* Test case ID, name
* New or old:
* Test items: (what do you test )
* Test priority (high/medium/low)
* Dependencies (to other test case/requirement if any):
* Preconditions: (if any)
* input data:
* Test steps:
* Postconditions:
* Expected output:
* Actual output:
* Pass or Fail:
* Bug id/link: (this should link to your github issue id)
* Additional notes:

(You can use an additional spreadsheet for this section as well)

# Automated Testing Report

We do not intend to implement any automated testing suites. Given the simplicity of our app and the limited number of dynamic components, it doesn't warrant a high degree of automation in testing.

# Testing Metrics

In this section, you shall report any metrics used for the evaluation, e.g. # of test cases, test coverage, defects rate, etc.

| **Metrics** | **Number of** | *Pass Rate* |
| --- | --- | --- |
| Test Cases |  |  |
| Unit Tests |  |  |
| Defects |  |  |
| Defects fixed |  |  |
|  |  |  |

# References

# Glossary