**Summary of Web Application Testing for "Plan Your Dish" Project**

Testing is important to make sure the Plan Your Dish app works well and gives users a smooth experience. It helps us spot problems early, so the app is more reliable, secure, and performs better. By finding bugs before launch, we can make sure the app runs smoothly for users.

**Unit Testing** focuses on checking individual parts of the app, like the calculations for how much groceries are needed based on selected meals. We'll ensure the app handles errors, such as incorrect or missing data, without issues.

**Integration Testing** ensures that the different parts of the app work together. For instance, we will check if the front-end UI communicates well with the back-end system and if user data (like preferences and shopping history) is saved correctly in the database.

**End-to-End Testing (E2E)** simulates real user actions and tests the app from start to finish. We'll check if the app works correctly across different devices, from meal selection to grocery calculation and shopping list review.

**Capture Data Testing** records real data during tests to identify issues with how the app processes information, while **Regression Testing** ensures that new updates or features don't break anything that was working before.

By using these testing methods, we will make sure 'Plan Your Dish' is reliable, easy to use, and bug-free.