System Test Plan

Test Situations:

1. View a staff member’s schedule by selecting a staff member
   1. Check for error when not selecting a staff member
2. View staff members in system
3. Add a staff member to the system by entering a name and role
   1. Check for error when not specifying a name
   2. Check for error when not specifying a role
4. Remove a staff member from the system by selecting a staff member
   1. Check for error when not selecting a staff member
5. Assign a schedule to a staff member by selecting a staff member in the system, a date, a start time and an end time
   1. Check for error when not selecting a staff member
   2. Check for error when not selecting a date
   3. Check for error when not selecting a start time
   4. Check for error when not selecting an end time
   5. Check for error if date is before current date
   6. Check for error if start time is before current time
   7. Check for error if end time is before start time
6. View the food supply in the system
7. View the equipment supply in the system
8. Add to the food supply by indicating a name and an amount
   1. Check for error if no name is provided
   2. Check for error if no amount is provided
   3. Check for error if negative amount is provided
9. Remove from the food supply by indicating a name and an amount
   1. Check for error if no name is provided
   2. Check for error if name does not match an existing food supply’s name
   3. Check for error if no amount is provided
   4. Check for error if negative amount is provided
10. Add to the equipment supply by indicating a name and an amount
    1. Check for error if no name is provided
    2. Check for error if no amount is provided
    3. Check for error if negative amount is provided
11. Remove from the equipment supply by indicating a name and an amount
    1. Check for error if no name is provided
    2. Check for error if name does not match an existing equipment supply’s name
    3. Check for error if no amount is provided
    4. Check for error if negative amount is provided
12. Add a menu item to the system by specifying an item name
    1. Check for error if no name is provided
13. Claim that a menu item was ordered by specifying the menu item that was ordered and the amount that was ordered
    1. Check for error if no menu item is provided
    2. Check for error if no amount is provided
    3. Check for error if negative amount is provided
14. View the popularity report displaying the most popular menu items and their corresponding amount of times ordered

Rationale:

Our test situations chosen correspond to each of the use cases in the requirements use-case diagram. Thus, we are testing every feature of our system that a user can manipulate. Moreover, our test situations include testing each use case’s failure scenarios. Since we are testing all use cases and alternative flows, we have 100% test coverage.

Detailed Test Case #1:

**Title:** Assign schedule to a staff member

**Actors:** User

**Requirements:** 1003

**Main Scenario:**

1. User selects a staff member from the drop-down menu
2. User selects a date from the date picker
3. User inputs a start time
4. User inputs an end time
5. User clicks on assign schedule button
6. Schedule is assigned to selected staff member

**Alternatives:**

1a: User does not select a staff member from the drop-down menu

1a1: User clicks on assign schedule button and views error message; use case ends

2a: User does not select a date

2a1: User clicks on assign schedule button and views error message; use case ends

2b: User selects a date prior to current date

2b1: User clicks on assign schedule button and views error message; use case ends

3a: User does not input start time

3a1: User clicks on assign schedule button and views error message; use case ends

3b: User inputs start time prior to current time

3b1: User clicks on assign schedule button and views error message; use case ends

4a: User does not input end time

4a1: User clicks on assign schedule button and views error message; use case ends

4b: User inputs end time prior to start time

4b1: User clicks on assign schedule button and views error message; use case ends

**Test Situations:**

1. User inputs all data successfully
2. User doesn’t select staff member but inputs other data correctly
3. User doesn’t select a date but inputs other data correctly
4. User selects a date prior to current date but inputs other data correctly
5. User doesn’t input start time but inputs other data correctly
6. User selects today’s date and inputs a start time prior to current time and all other data correctly
7. User doesn’t input an end time but inputs other data correctly
8. User inputs an end time prior to the inputted start time and all other data correctly

**Test Coverage:**

Base: number of main and alternative scenarios = 8

Test situations cover all 8 cases. 100% coverage of use case

Detailed Test Case #2:

**Title:** Add an employee to the system

**Actors:** User

**Requirements:** 1002

**Main Scenario:**

1. User inputs the name of the employee
2. User inputs the role of the employee
3. User clicks on hire employee button
4. System adds employee

**Alternatives:**

1a: User does not input a name

1a1: User clicks on hire employee button and error message is displayed; use case ends

2a: User does not input a role

2a1: User clicks on hire employee button and error message is displayed; use case ends

**Test Situations:**

1. User inputs all data successfully
2. User does not input a name but does input a role
3. User does not input a role but does input a name

**Test Coverage:**

Base: number of main and alternative scenarios = 3

Test situations cover all 3 cases. 100% coverage of use case