**Test Plan and Report  
Scheduling Statistically  
Teaming with Statistics  
07/23/2024**

System Test Scenarios:

A. User Story 1: As a new user, I want to register an account so that I can use the task management system.

B. User Story 2: As a registered user, I want to log in to access my tasks.

C. User Story 3: As a logged-in user, I want to add a new task with estimated time so that I can track my activities.

D. User Story 4: As a logged-in user, I want to mark a task as complete so that I can track my progress.

E. User Story 5: As a logged-in user, I want to mark a task as incomplete with a reason so that I can understand why tasks are not completed.

F. User Story 6: As a logged-in user, I want to view a chart of my completed vs incomplete tasks over time to visualize my productivity.

G. User Story 7: As a logged-in user, I want to export my task data so that I can back it up or transfer it to another system.

H. User Story 8: As a logged-in user, I want to import my task data so that I can restore my tasks or transfer them from another system.

Scenario 1: Register Account (Pass)

1. Navigate to the Scheduling Statistically website

2. Click on the "Register" section

3. Enter username: "testuser123"

4. Enter password: "password123"

5. Click "Register" button

6. User should see a success message and be logged in

Scenario 2: Login (Pass)

1. Navigate to the Scheduling Statistically website

2. Click on the "Login" section

3. Enter username: "testuser123"

4. Enter password: "password123"

5. Click "Login" button

6. User should see a welcome message and have access to their task list

Scenario 3: Add New Task (Pass)

1. Log in to the system

2. In the "Add a new task" input, enter "Complete project documentation"

3. In the "Estimated time (minutes)" input, enter "120"

4. Click "Add Task" button

5. The new task should appear in the task list

Scenario 4: Mark Task as Complete (Pass)

1. Log in to the system

2. Find the task "Complete project documentation" in the task list

3. Click the "Complete" button next to the task

4. The task should move to the "Completed Tasks" list

Scenario 5: Mark Task as Incomplete (Pass)

1. Log in to the system

2. Add a new task: "Finish coding feature X" with estimated time "90" minutes

3. Find the task in the task list

4. Click the "Incomplete" button next to the task

5. Select a reason from the dropdown (e.g., "Lack of Resources")

6. The task should move to the "Incomplete Tasks" list with the selected reason

Scenario 6: View Productivity Chart (Pass)

1. Log in to the system

2. Scroll down to find the productivity chart

3. The chart should display data for completed and incomplete tasks over time

Scenario 7: Export Task Data (Pass)

1. Log in to the system

2. Click the "Export" button

3. A JSON file named "SchedulingStatistically.json" should be downloaded

Scenario 8: Import Task Data (Pass)

1. Log in to the system

2. Click the "Import" button

3. Select the previously exported "SchedulingStatistically.json" file

4. The task lists should update to reflect the imported data

Unit Tests:

N/A

Note: Implementation of these unit tests is recommended for future development to ensure code reliability and easier maintenance.