User Acceptance Test for Menu

Test Case 1: Display Default Menu Without Dietary Preferences

Scenario: A user with no dietary preferences should see the default/main menu.

- **Given**: A user is authenticated and has no dietary preferences set.

- **When**: The user navigates to the "Menu Access" tab.

- **Then**: The default/main menu is displayed.

- **Test Steps**:

    1. User logs in to the system.

    2. User navigates to the "Menu Access" tab.

- **Expected Result**: The user sees the default/main menu displayed.

Test Case 2: Display Vegan Menu Based on Dietary Preferences

Scenario: A user who selects "Vegan" as their dietary preference should see the vegan menu.

- **Given**: The user is logged in and has selected "Vegan" in the dietary management section.

- **When**: The user navigates to the "Menu Access" tab.

- **Then**: The vegan menu is displayed, and non-vegan items are excluded.

- **Test Steps**:

    1. User logs in to the system.

    2. User goes to the Dietary Management section.

    3. User selects "Vegan" as their dietary preference and saves.

    4. User navigates to the "Menu Access" tab.

- **Expected Result**: The vegan menu is displayed.

Test Case 3: Display Gluten-Free Menu Based on Dietary Preferences

Scenario: A user who selects "Gluten-Free" as their dietary preference should see the gluten-free menu.

- **Given**: The user is logged in and has selected "Gluten-Free" in the dietary management section.

- **When**: The user navigates to the "Menu Access" tab.

- **Then**: The gluten-free menu is displayed, and non-gluten-free items are excluded.

- **Test Steps**:

    1. User logs in to the system.

    2. User goes to the Dietary Management section.

    3. User selects "Gluten-Free" as their dietary preference and saves.

    4. User navigates to the "Menu Access" tab.

- **Expected Result**: The gluten-free menu is displayed.

Test Case 4: Dietary Preferences with No Effect on the Menu (e.g., Halal)

Scenario: A user who selects "Halal" should still see the default menu, as halal does not affect the menu options.

- **Given**: The user is logged in and has selected "Halal" as their dietary preference.

- **When**: The user navigates to the "Menu Access" tab.

- **Then**: The default/main menu is displayed, and no items are filtered based on halal preference.

- **Test Steps**:

    1. User logs in to the system.

    2. User goes to the Dietary Management section.

    3. User selects "Halal" as their dietary preference and saves.

    4. User navigates to the "Menu Access" tab.

- **Expected Result**: The default/main menu is displayed.

Test Case 5: Ensure Menu Visibility After User Logs Out and Logs Back In

Scenario: A user who logs out and logs back in should see the correct menu according to their last saved dietary preference.

- **Given**: The user is logged in, has a dietary preference set, and is viewing the menu.

- **When**: The user logs out and logs back in, then navigates to the "Menu Access" tab.

- **Then**: The menu reflects the last saved dietary preference without needing to reset preferences.

- **Test Steps**:

    1. User logs in and navigates to the "Menu Access" tab.

    2. User logs out of the system.

    3. User logs back in and navigates to the "Menu Access" tab.

- **Expected Result**: The menu displayed should match the user's last saved dietary preference.

Test Case 6: Error Handling When No Menu Data Is Available

Scenario: If no menu data is available (e.g., network error or database issue), the system should handle this gracefully.

- **Given**: The user is logged in, but there is no menu data available due to a network error or database issue.

- **When**: The user navigates to the "Menu Access" tab.

- **Then**: The user sees an error message or a message stating that the menu is unavailable, instead of a blank screen.

- **Test Steps**:

    1. User logs in and navigates to the "Menu Access" tab.

- **Expected Result**: The user sees an error message or a message stating that the menu is unavailable.

Test Case 7: Clear Dietary Preferences and Revert to Default Menu

Scenario: A user who clears their dietary preferences should see the default menu.

- **Given**: The user has a dietary preference set and is viewing the corresponding menu (e.g., vegan).

- **When**: The user clears their dietary preferences in the Dietary Management section.

- **Then**: The menu reverts to the default/main menu.

Test Case 8: Daily Menu Updates Based on Weekly Schedule

Scenario: The menu is updated daily according to a weekly schedule, and the user should see the correct menu for each day.

- **Given**: The menu has a predefined weekly schedule (with different menus for each day of the week), and the system updates the menu daily.

- **When**: The user logs in and navigates to the "Menu Access" tab on a specific day (e.g., Monday).

- **Then**: The menu displayed corresponds to that day's scheduled menu (e.g., Monday's menu), with all meal options reflecting the correct schedule.

Test Case 9: Verify Menu Changes at Midnight

Scenario: The menu updates at midnight to reflect the new day's menu from the weekly schedule.

- **Given**: The menu is scheduled to change at midnight based on the weekly schedule.

- **When**: The user is browsing the menu close to midnight, and midnight passes (i.e., the day changes).

- **Then**: The system automatically updates the menu to reflect the new day's meals without needing the user to refresh or navigate away.

Test Case 10: Display Upcoming Menus for the Week

Scenario: The user can view the menus for upcoming days based on the weekly schedule.

- **Given**: The menu is updated daily, but the user wants to check the upcoming meals for the rest of the week.

- **When**: The user navigates to the "Menu Access" tab and go to the bottom of the screen to see the weekly schedule.

- **Then**: The system displays the menus for the remaining days of the week, according to the predefined weekly schedule.

Test Case 11: Update in Case of Manual Menu Override

Scenario: If there's a manual override to the daily menu (e.g., due to unforeseen circumstances), the user should see the updated menu.

- **Given**: The system administrator has manually overridden the daily menu for a specific day due to special circumstances.

- **When**: The user logs in and navigates to the "Menu Access" tab for that day.

- **Then**: The system displays the manually overridden menu instead of the original scheduled menu.

Test Case 12: Handling Menu Unavailability (No Scheduled Menu for the Day)

Scenario: If there is no scheduled menu for a specific day, the system should handle it gracefully by showing an appropriate message.

- **Given**: There is no menu scheduled for a specific day (e.g., due to a system error or unscheduled maintenance).

- **When**: The user logs in and navigates to the "Menu Access" tab on that day.

- **Then**: The system displays a message indicating that no menu is available for the day, along with possible instructions or alternative actions.