Tests and Test Plan for Illo

# Test Cases

# Use Case Testing

# Written Test 1

**Title: Confirm Permission Changes**

Actors: User

Requirements: Illo is in Permission Management

**Main Scenario:**

1. User selects “Save Changes” Button

2. Illo Saves the permission changes and returns to the Settings screen

**Alternatives:**

1a. User selects the “Cancel Changes” Button

1a1. Illo does not save the permission changes and returns to the Settings Screen

**Test Situations:**

1) User confirms permission changes

2) User cancels the permission changes

**Test Coverage:**

Base: number of main and alternative scenarios: 2

Test situations cover all 2 cases

100% coverage of use case

# Written Test 2

**Title: Start Internal Timer**

Actors: User

Requirements: Illo is on the Timer Screen

**Main Scenario:**

1. User selects the “Play” button.

2. Illo starts the current workout interval.

3. Play Button is Replaced with a Pause button.

**Test Situations:**

1. User Presses the “Play” Button

**Test Coverage:**

Base: number of main and alternative scenarios: 1

100% coverage of use case

# Written Test 3

**Title: Exit Permission Management**

Actors: User

Requirements: Illo is in Permission Management

Main Scenario:

1. User Selects the “Exit” Button.

2. Illo returns to the Setting Screen

**Alternatives:**

1a. User has unsaved changes and Selects the “Exit” Button.

1a1. Illo displays a “Confirm Changes” popup.

**Test Situations:**

1. User exits the menu with no unsaved changes.
2. User exits the menu with unsaved changes.

**Test Coverage:**

Base: number of main and alternative scenarios: 2

Test situations cover all 2 cases

100% coverage of use case

# Written Test 4

**Title: Toggle Permission**

Actors: User

Requirements: Illo is in Permission Management

Main Scenario:

1. User toggles an enabled permission

2. Illo disables the selected permission

**Alternatives:**

1a. User toggles a disabled permission

1a1. Illo enables the selected permission

**Test Situations:**

1. Enabled permission toggle
2. Disabled permission toggle

**Test Coverage:**

Base: number of main and alternative scenarios: 2

Test situations cover all 2 cases

100% coverage of use case

# Written Test 5

**Title: Rename Exercise from Activity Source**

Actors: User  
Requirements: Illo is in the Activity Source Configuration Screen

**Main Scenario:**

1. User selects name of the Activity Source

2. Illo prompts the user to enter text

3. User enters text and confirms

4. Illo renames the Activity Source to the text entered

5. Illo returns to the Activity Source Configuration Screen

**Alternatives:**

1a. User exits the screen

1a1. Illo returns to the Activity Sources screen

3a. User cancels

3a1. Illo does not rename the Activity Source

**Test Situations:**

1. User renames exercise
2. User exits the Activity Source Configuration Screen
3. User Cancels the renaming

**Test Coverage:**

Base: number of main and alternative scenarios: 3

Test situations cover all 3 cases

100% coverage of use case

# Written Test 6

**Title: Set Activity Source**

Actors: User

Requirements: Illo is in the Configuration Screen

**Main Scenario:**

1. User selects the Activity Source field

2. Illo swaps to Activity Sources screen

3. User selects an Activity Source

4. Illo presents list of exercises in selected Activity Source

5. User selects confirm for selected Exercise Set

6. Illo saves the selected Activity Source, and sets the timer’s nextExercise() method to point to thenext() method in the Activity Source

7. Illo closes dialogue and returns to the Illo Configuration Screen

**Alternatives:**

3a. User exits screen

3a1. Illo returns to the Configuration Screen

5a. User selects cancel

5a1. Illo exits the confirmation menu, returning to the Activity Sources screen.

**Test Situations:**

1. User sets the activity source
2. User exits the screen
3. User cancels setting the activity source

**Test Coverage:**

Base: number of main and alternative scenarios: 3

Test situations cover all 3 cases

100% coverage of use case

# Unit Testing

# Coded Test 1

# Coded Test 2

# Coded Test 3

# Coded Test 4

# Coded Test 5

# Alarm Activates

|  |  |
| --- | --- |
| Test Inputs | Expected Outcome |
| Timer Running | No Alarm |
| Timer Hits 0 and resets | Alarm runs once then stops |
| Timer is 0 | Alarm runs once then stops |

This test will make sure that the sound alarm will not interfere with the user’s manual input of timer duration.

To create this test:

1. separate test timer with varying lengths, (100sec, 10sec, 0sec)

2. Assertions that the alarm plays when the timer hits 0,

3. Assertion the alarm does not continue to run after once.

# Written Test 2

# Written Test 3

# Written Test 4

# Written Test 5