**Acceptance Testing Plan: I-SPY-U**

**Purpose:** This document outlines the plan for Acceptance Testing of the I-SPY-U application. It defines the criteria for acceptance and details the tests designed to verify that the application meets user requirements and is fit for purpose.

**1. Define Acceptance Criteria**

Based on the core requirements for I-SPY-U, the following criteria must be met for the project:

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| Criterion ID | | Requirement Area | | Category | Description | | Verification Method | |
| AC-01 | | User Authentication | | Functional | Users must be able to register a new account with a unique email, username and password. | | Test case | |
| AC-02 | | User Authentication | | Functional | Registered users must be able to log in using their correct credentials. | | Test case | |
| AC-03 | | User Authentication | | Functional | Users must receive a clear error message if login fails | | Test case | |
| AC-04 | | My Devices Viewing | | Functional | Logged-in users must be able to see a list of their own devices under “My Devices” | | Test case | |
| AC-05 | | My Devices Interaction | | Functional | Logged-in users must be able select a device from the “My Devices” list. | | Test case | |
| AC-06 | | My Devices Viewing | | Functional | Upon selecting a device from "My Devices", its details must be displayed. | | Test case | |
| AC-07 | | My Devices Management | | Functional | Logged-in users must be able to add a new device by clicking “Add a new device” button and inserting a unique UUID, name and description. | | Test case | |
| AC-08 | My Devices  Management | | Functional | | | Logged-in users must be able to remove a device by clicking “Remove Device” button. | Test case |
| AC-09 | My Devices Navigation | | Functional | | | Logged-in users must be able to open a device by clicking “Open device” button. | Test case |
| AC-10 | My Device Viewing | | Functional | | | Upon opening a device, users must be able to see the last 15 logs. | Test case |
| AC-11 | My Device Navigation | | Functional | | | Logged-in users must be able to navigate to “Share” tab. | Test case |
| AC-12 | My Device Viewing | | Functional | | | Logged-in users must be able to view the list of users who have access to a device they own. | Test case |
| AC-13 | My Device  Management | | Functional | | | Logged-in users must be able to share their device with email, selecting a role and description | Test case |
| AC-14 | My Device  Navigation | | Functional | | | Logged-in users must be able to return to “My Devices” tab by clicking “Back to device list” button. | Test case |
| AC-15 | Share Devices Navigation | | Functional | | | Logged-in users must be able to navigate to “Share devices” tab | Test case |
| AC -16 | Share Devices Viewing | | Functional | | | Logged-in users must be able to see devices that have been shared with them under “Share Devices” tab | Test case |
| AC-17 | Share Devices Intercation | | Functional | | | Logged-in users must be able to select a device from the “Share Devices” list. | Test case |
| AC-18 | Share Devices Viewing | | Functional | | | Upon selecting a device from "Share Devices", its details must be displayed. | Test case |
| AC-19 | Share Devices Management | | Functional | | | Users can remove shared devices via the 'Remove Share' button. | Test case |
| AC-20 | Share Devices Navigation | | Functional | | | Logged-in users must be able to open a shared device by clicking “Open device” button | Test case |
| AC-21 | Share Device Viewing | | Functional | | | Upon opening a shared device, users must be able to see the last 15 logs. | Test case |
| AC-22 | Share Device Navigation | | Functional | | | Logged-in users must be able to navigate to “Share” tab. | Test case |
| AC-23 | Share Device Interaction | | Functional | | | Logged-in users must be able to edit the shared devices description shown to them. | Test case |
| AC-24 | Share Device Navigation | | Functional | | | Logged-in users must be able to return to “Share Devices” tab by clicking “Back to device list” button. | Test case |
| AC-25 | User Interface | | Usability | | | Key functions (Login, Register, Add Device, Open Device, Share Device) should be easy to find and use. | Usability testing |
| AC-26 | User Interface | | Usability | | | Navigation between sections ("My Devices", "Share Devices", device views) should be clear. | Usability testing |
| AC-27 | Responsiveness | | Perfomance | | | Selecting a device from "My Devices" list should feel responsive (target: < 3 seconds) | Performance testing |
| AC-28 | Responsiveness | | Performance | | | Actions like adding, removing, or sharing a device should update the UI quickly (target: < 2 seconds). | Performance testing |

**2. Design Acceptance Tests**

The following tests are designed to validate the Acceptance Criteria.

**(A) Functional Tests**

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| Test Case ID | Related AC(s) | Test Title | Test Steps | Expected Result | |
| AT-F-01 | AC-01 | Successful Registration | 1. Navigate to register page. 2. Enter new unique email, username & password. 3. Click Register. | Account successfully created. User is redirected to “My Devices” tab | |
| AT-F-02 | AC-02 | Successful Login | 1. Navigate to login page. 2. Enter registered username & correct password. 3. Click Login. | User logged in and redirected to “My Devices” tab. | |
| AT-F-03 | AC-03 | Failed Login (Bad Password) | 1. Navigate to the Login page. 2. Enter registered username & incorrect password. 3. Click Login. | Login fails. User remains on the login page and error message "Invalid credentials" is shown. | |
| AT-F-04 | AC-04 | View "My Devices" List | 1. Log in successfully. 2. Ensure the "My Devices" tab and list of devices is displayed. | A list containing devices owned by the logged-in user is displayed. | |
| AT-F-05 | AC-05 AC-06 | Select Device from “My Devices” and view details | 1. Log in. 2. In "My Devices" tab click on a specific device entry in the list. | The device entry is visually indicated as selected (e.g., highlighted). Device details are shown. | |
| AT-F-06 | AC-07 | Add new device | 1. Log in. 2. In "My Devices" click “Add a new device” button. 3. Enter unique UUID, name and description. 4. Click “Add device” button | Add device window closes and the device appears in the “My Devices” list | |
| AT-F-07 | AC-08 | Remove a device | 1. Log in. 2. In "My Devices". 3. Select a device. 4. Click "Remove Device". 5. Confirm the removal | Remove device windows closes and the device is removed from “My Devices” list | |
| AT-F-08 | AC-09 AC-10 | Open device from “My Devices” and view logs | 1. Log in. 2. In "My Devices". Select a device. 3. Click the “Open device" button. | User is navigated to the view for the selected device and displayed last 15 logs (or all if fewer) | |
| AT-F-09 | AC-11 AC-12 | Navigate to owned device "Share" Tab and view shared users | 1. Log in. 2. Open an owned device. 3. Click the "Share" tab within the device view. | The sharing management section for that device is displayed and a list of users who have access to the device is displayed (if any) | |
| AT-F-10 | AC-13 | Share Owned Device with Another User | 1. Log in. 2. Open owned device, go to "Share" tab. 3. Enter email of another valid user, select role, enter description. 4. Click "Share". | \*Success message. The newly added user appears in the list of users with access (verify via AT-F-12). | |
| AT-F-11 | AC-14 | Navigate Back from Owned Device to List | 1. Log in. 2. Open an owned device. 3. Click the "Back to device list" button. | User is returned to the main "My Devices" list view. | |
| AT-F-12 | AC-15 | Navigate to Main "Share Devices" Tab | 1. Log in. 2. Click the main "Share Devices" tab in the navigation. | The "Share Devices" view is displayed, intended to list devices shared *with* the current user. | |
| AT-F-13 | AC-16 | View "Share Devices" List | 1. Log in. 2. Navigate to "Share Devices" tab. | A list of devices shared with the logged-in user by others is displayed. | |
| AT-F-14 | AC-17 AC-18 | Select Device from "Share Devices" and view details | 1. Log in. 2. Navigate to "Share Devices" tab. 3. Click on a specific shared device entry. | The device entry is visually indicated as selected. Device details are displayed. | |
| AT-F-15 | AC-19 | Remove a shared device | 1. Log in. 2. Navigate to "Share Devices". 3. Select a shared device. 4. Click the “Remove Share" button. | The device gets removed from the “Share Devices” list | |
| AT-F-16 | AC-20 AC-21 | Open Device from "Share Devices" and view logs | 1. Log in. 2. Navigate to "Share Devices". Select a device. 3. Click the “Open device" button. | User is navigated to the view for the selected device and displayed last 15 logs (or all if fewer) | |
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| AT-F-17 | AC-22 AC-23 | Navigate to "Share" Tab (Shared Device), Edit description | 1. Log in. 2. Open a shared device. 3. Click the "Share" tab. 5. Edit description 6. Click save. | The sharing information section for that shared device is displayed and the description displayed is updated | |
| AT-F-18 | AC-24 | Navigate Back from Shared Device to List | 1. Log in. 2. Open a  shared device. 3. Click the "Back to  device list” button | | User is returned to the main "Share Devices" list view. |

**(B) Usability Tests**

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| Test Case ID | Related AC(s) | Test Title | Test Scenario / Question for Tester | Expected Observation / Success Metric |
| AT-U-01 | AC-25 | Find Registration | (On login page) "Imagine you're a new user. How would you create an account?" | Tester easily locates and navigates to the Register page by clicking the “Sign up” tab. |
| AT-U-02 | AC-25 AC-13 | Find share unction | (Logged in, on “My devices) "How would you give another user access to this device?" | Tester quickly navigates to “Share” tab of the device. |
| AT-U-03 | AC-26 AC-16 | Basic Navigation | (Logged in, on "My devices") "Where would you look for devices others have shared with you?" | Tester correctly identifies and clicks the main "Share Devices" navigation tab |

**(C) Performance Tests**

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| Test Case ID | Related AC(s) | Test Title | Test Steps | Expected Observation / Success Metric |
| AT-P-01 | AC-27 | Select device loading time | 1. Log in as a user with a device. 2. Select a device. 3. Observe loading time. | Details of the device appear (target: < 3 seconds.). |
| AT-P-02 | AC-28 | Remove device responsiveness | 1. Log in. 2. Select a device 3. Click on “Remove device” button. 4. Confirm removal.  5. Observe UI. | The device disappears from the list (target: < 2 seconds.) |