**Task 1: Test Case Design**

**1. Landing Page Test Cases**

| **Test Case ID** | **Test Case Description** | **Steps to Execute** | **Expected Result** | **Actual Result** | **Status** |
| --- | --- | --- | --- | --- | --- |
| LP-01 | Verify landing page loads successfully | Navigate to the website URL | Landing page should display with login button |  | Pass/Fail |
| LP-02 | Verifyy login button navigates to login page | Click on the login button | Login page should load |  | Pass/Fail |
|  |  |  |  |  |  |

**2. Login Page Test Cases**

| **Test Case ID** | **Test Case Description** | **Steps to Execute** | **Expected Result** | **Actual Result** | **Status** |
| --- | --- | --- | --- | --- | --- |
| LP-03 | Verify login page loads successfully | Navigate to login page | Login page displays with fields for credentials |  | Pass/Fail |
| LP-04 | Verify successful login with valid credentials | Enter valid credentials and click "Login" | User is redirected to the Home page |  | Pass/Fail |
| LP-05 | Verify login fails with invalid credentials | Enter invalid credentials and click "Login" | Error message "Invalid credentials" is displayed |  | Pass/Fail |
| LP-06 | Verify login fails with empty credentials | Leave fields empty and click "Login" | Error message "Fields required" is displayed |  | Pass/Fail |
| LP-07 | Verify the session persists on refresh after login | Login successfully, then refresh the page | User remains logged in |  | Pass/Fail |

**3. Authenticated Pages Test Cases**

| **Test Case ID** | **Test Case Description** | **Steps to Execute** | **Expected Result** | **Actual Result** | **Status** |
| --- | --- | --- | --- | --- | --- |
| HP-01 | Verify access to Home page after successful login | Login with valid credentials | User is redirected to Home page |  | Pass/Fail |
| UP-01 | Verify "User" page loads and displays user details | Navigate to "User" page | User details are displayed |  | Pass/Fail |
| AP-01 | Verify "Album" page loads and displays user albums | Navigate to "Album" page | User albums are displayed |  | Pass/Fail |
| PP-01 | Verify "Photo" page loads and displays album photos | Navigate to "Photo" page | Photos related to albums are displayed |  | Pass/Fail |
| AP-02 | Verify navigation links are functional | Click on each page link from Home | Each respective page loads successfully |  | Pass/Fail |

**Task 2: Bug Reporting**

**Bug Report**

* **Bug Title**: Login page refreshes without logging in user after entering valid credentials
* **Severity**: High
* **Priority**: P0
* **Environment**: Windows 10, Web (Chrome Browser), Node.js (Development Server)
* **Description**: After entering valid credentials, clicking the "Login" button causes the page to refresh instead of redirecting the user to the Home page. As a result, the user remains on the login page without being authenticated.

**Steps to Reproduce**:

* 1. Navigate to the login page (/login).
  2. Enter valid credentials in the email and password fields.
  3. Click the "Login" button.

**Expected Result**: User is redirected to the Home page upon successful login.

**Actual Result**: The login page refreshes, and the user remains unauthenticated.

* **Attachments**: UI sccreenshots of the login page before and after clicking "Login" button, as well as console logs showing any errors.
  + - Video
* **Notes**: Investigate if session handling and authentication flow logic are implemented correctly. Verify that the Firebase authentication handler correctly handles the response and navigates as expected.