**QA Report – StarWarsApp (React Native)**

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| **Project:** StarWarsApp | **Date:** 17/08/2025 |
| **Tested By:** Anshika Parmar | **Test Method:** Manual |

1. **Scope & References**

* **Repository:** <https://github.com/worlderteam/StarWarsApp>
* React Native app with Login, Register, Group (Joined/Unjoined), Create Group, and Profile screens
* Uses React Query, MMKV, Axios, In‑App Message/Push, i18next, Vision Camera
* Google services files included for push

***Source:*** *README of Project Repository*

* This report includes the test mandate and functional requirements from the assignment.

***Primary data source (as given in assignment):*** *Star Wars API (SWAPI) for people/starships*

1. **Build & Test Environment Setup**

**Prerequisites:**

* Java 17.0.10-tem, Node.js 18.19.1 + npm
* Android Studio (includes SDK Android 15.0 + platform-tools)
* Commands Execution –
  + adb devices
  + npm install --legacy-peer-deps
  + npx react-native start
  + npx react-native run-android
* Device / OS: Tested on Android version 15 (**Realme 11**)
* Google service files for Android present (Push Notification requirement)

1. **Test Strategy & Rationale**

**Goals:**

* To Prove the app fulfils all 13 functional requirements in the assignment.
* To Focus on user-critical flows: registration, profile, groups/invites, camera, GPS, SWAPI.
* To Demonstrate good behaviour on common Android/iOS versions in both portrait and landscape.
* To Capture clear, auditable evidence (screenshots/recordings) and log defects.
* **Functional** **Tests** (items 1–13 from the assignment):
  1. Register users with passwords (Luke, Darth) with validation
  2. Add profile photo via camera and image library
  3. Login (success and error on wrong credentials)
  4. Profile details pulled from SWAPI (height, mass, birth year, gender)
  5. Create groups and invite users (Rebel Alliance, Empire)
  6. In-app notifications for group invites
  7. Accept invite and join group
  8. Group profile lists members and last known GPS
  9. Group profile shows starship info via SWAPI; interactive and informative
  10. To follow the Adobe XD design
  11. Simple, reasonable authentication/authorization scheme
  12. To check portrait and landscape support on common Android/iOS phones and tablets
  13. Support for i18n and l10n
* **Non-functional** 
  1. **Compatibility**: To verify responsiveness and layout on the tested Android device.
  2. **Usability**: To assess overall UX and noted improvement areas.
  3. **Performance**: To check memory and battery usage through phone’s app management.
  4. **Security:** To ensure logout clears data and no information is visible without authentication.

**Approach:**

* I will perform requirements mapped, risk-based manual testing on real devices.
* One realistic user journey for example (Luke ↔ Anakin) that checks every requirement.
* I will validate negative and edge scenarios including invalid inputs, denied permissions, and screen rotations.
* I will manually disable Wi-Fi and mobile data to observe retries, error states, and recovery when SWAPI was unreachable.
* I will compare key screens to Adobe XD for layout, spacing, typography, flows.
* I will record Pass/Fail outcomes with notes, screenshots, and log any bugs or unexpected behaviour.

**Test data:**

* Users
* Luke Walker - [luke\_skywalker@starwars.com](mailto:luke_skywalker@starwars.com) - Luke@201
* Anakin Sky - [anakin\_skywalker@starwars.com](mailto:anakin_skywalker@starwars.com) - Walker@201
* Leia gana - [leia\_organa@starwars.com](mailto:leia_organa@starwars.com) – Rebel@201
* Groups
* “Alliance” (Luke) - Starship: Star Destroyer
* “Demon Slayer” (Anakin) - Starship: X-wing
* Photos
* One profile photo captured via camera

**Entry criteria:**

* When the app builds successfully and launches on Android.
* The SWAPI service is reachable, or failures can be simulated for testing.
* The Google service files are available to validate in-app invite notification.

**Exit criteria:**

* When all critical paths and requirement checked (Functional and Non Functional).
* When app startup and scrolling are smooth.
* After logout, user is required to log in again (no data visible without authentication).

**Proofs to capture:**

* To capture verified core flows (login, profile with SWAPI, group/invite, GPS, starships, i18n, portrait/landscape).
* Observed cold-start behaviour and network/error handling
* To Capture screenshots and recordings for defects.

**Rationale:**

* Permissions (camera/location): To test both allow and deny to ensure fallback messages appear.
* Connectivity: To check Improper phone connection or unstable network that may stop the app from loading. I will verify if it shows an error instead of hanging.
* Push Notifications & Device Features: To validate in-app notifications, camera, GPS, and other real device functionalities.
* Layout & Orientation: Rotate screens to catch clipping, misalignment, or layout issues.
* Internationalization (i18n): To switch device languages to check for untranslated or broken text.
* Logout and security: To ensure user cannot access data post-logout and must log in again.
* Screenshots and recordings provide clear, reviewable proofs.

1. **Test Cases**

I had written full step details and execution results are maintained in - **StarWarsApp.xlsx** - **Test Case** *(Sheet 1)*

Below is the info what the StarWarsApp.xlsx **(Test Case Sheet)** contains **-**

* IDs: F-### (Functional), C-### (Compatibility), U-### (Usability), P-### (Performance), S-### (Security)
* Columns: TestCase ID, Title, Steps, Expected Result, Actual Result, Result (Pass/Fail), Comment

**Coverage And Traceability**

* **Req-1 (Register users):** F001, F002, F003, F004, F005, F006, F007
* **Req-2 (Upload profile photo):** F008, F009, F010
* **Req-3 (Login):** F011, F012, F013, F014
* **Req-4 (Profile via SWAPI):** F015, F016
* **Req-5 (Create groups & invite):** F017, F018, F019, F028
* **Req-6 (In-app notifications / join group):** F020, F021, UI02
* **Req-7 (Join group / invite acceptance):** F022
* **Req-8 (Group profile & GPS locations):** F023, F024, F029
* **Req-9 (Starship info):** F025, F026, F027
* **Req-10 (Design fidelity / Adobe XD):** UI03, UI04
* **Req-11 (Authentication & authorization):** F016
* **Req-12 (Portrait & landscape support):** C001
* **Req-13 (I18n & L10n):** UI01
* **Non-functional:** C-001, C-002, U-001, U-002, P-001, P-002, P-003, S-001, S-002, S-003

1. **Bug Report**

I had logged bug with details and results which are maintained in - **StarWarsApp.xlsx** - **Bug Report** *(Sheet 2)*

Below is the info what the StarWarsApp.xlsx **(Bug Report Sheet)** contains **-**

**Fields**

* BugID, Title, Description, TestCaseID, Severity, Priority, Steps to Reproduce, Actual, Expected,

Attachments, Evidence

**Traceability**

* Link each defect back to its related test case ID(s).

1. **Results Summary and Exit Criteria**

The execution summary is as follows:

* Total cases – 39
* Passed – 23
* Failed - 16

1. **Recommendation & Enhancements**

* Ensure proper alignment with safe area insets by fixing permission safe areas and landscape scroll containers
* Improve authentication error handling and add/validate the forgot Password flow
* **Implement/change profile picture support (including post account creation updates)**
* Configure notification channel, remove console warning
* To Implement starship search/filter and interactive detail screens
* The group profile page should be as interactive and ensure chart labels match data
* **Resolve i18n control placement and validate across locales (Language selection issue – only two visible, no scroll/selection possible)**
* To implement 'Leave Group' flow and review storage for sensitive data on logout

1. **Appendices (Artifacts)**

* **StarWarsApp.xlsx** – Excel Sheet Containing Test Cases and Bug Report.
* **StarWarsApp\_Defect** – Folder Containing Screenshots and Recording folder