**Test Plan**

**Written By: Komal Dewan**

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**Project: Ultra Data Saving Mode**

1. **Introduction**
   * **Overview**: This primary purpose of this test plan is the testing of “Ultra Data Saving Mode” feature for Samsung Android Mobile OS.
   * **Scope of Testing**: The plan is to test all the features listed in the feature list for this application like, mode on/off, able to add apps when feature is on, Savings report should be generated, and all the functionalities will be tested.
   * **Team**: Developers, Testers, Project Manager, and Stakeholders.
2. **Objective**
   * This feature will optimize mobile data by allowing only selected applications to consume mobile data in background. This feature will also contribute to improve battery life.
3. **Test Strategy**
   * **Type of Testing:** Functional, Performance, and Usability testing.
4. **Test Criteria**
   * **Entry Criteria**:
     1. Test documentation is created.
     2. Test environment is ready
   * **Exit Criteria**:
     1. All bugs in Jira are fixed along with blocker and critical severity defects.
     2. Planned deliverables are ready.
     3. Project is approved by stakeholders and project manager.
5. **Schedule**
   * Functional Testing: 4 weeks (April 21 - May 19)
   * Performance Testing: 2 weeks (May 20 - Jun 02)
   * Usability Testing: 1 week (Jun 03 – Jun 10)
6. **Test Environment**
   * **Hardware:** Samsung Galaxy A Series,
   * **Software:** Android OS version 14.
7. **Roles and Responsibilities**
   * Project Manager and Stakeholders will approve the feature after development and testing.
8. **Test Cases**
   * Test Case Id: 0001
   * Title: Ultra Data Saving Mode enable option
   * Steps: On Idle screen🡪 Go to mobile Settings🡪 Tap on Connections🡪 Scroll down to the bottom🡪 then tap on Ultra data saving mode🡪 Select Enable option.
   * Expected Result: Ultra data saving mode should enable.
   * Test Case Id: 0002
   * Title: Add apps in Ultra Data Saving Mode
   * Steps: On Idle screen🡪 Go to mobile Settings🡪 Tap on Connections🡪 Scroll down to the bottom🡪 then tap on Ultra data saving mode🡪 Select Enable option🡪 then Tap on ‘+’ sign to add app🡪 Select top app to add.
   * Expected Result: Selected app should display in Ultra Data Saving mode screen.
9. **Risks and Mitigations**
   * Risk 1: Further changes to the requirements or UX will impact the QA testing plan.
     1. Mitigation: QA approval is required for any changes to analyze if any changes are needed in the test plan. If major changes are needed, QA will re-prioritize other project to complete the testing timely
   * Risk 2: Software delivery later than April 20 will impact QA timelines.
     1. Mitigation: We will setup status meeting with developers to ensure software readiness. If software delivery is delayed, QA will re-prioritize other project to complete the testing timely
   * Risk 3: Lack of sufficient mobile devices for testing.
     1. Mitigation: QA will place order for 10 additional devices by April 18. QA will also setup emulators as a backup.
   * Risk 4: Lack of QA testers
     1. Mitigation: QA will arrange testers from other projects to support testing of this feature.
10. **Tools and Techniques**
    * Selenium for automation testing, and manual testing.
11. **Reporting and Communication**
    * All the documents will be shared through GitHub to Project Manager, or Stakeholders and bugs will be reported in Jira.