**Test Plan for WhatsApp**

**1. Objective**

To verify that WhatsApp functions correctly, securely, and reliably across supported platforms (Android, iOS, and Web) by performing functional, non-functional, and regression testing.

**2. Scope**

**✅ In-Scope:**

* User registration and login via OTP
* Text messaging (individual and group)
* Voice and video calling
* Media sharing (images, videos, documents)
* Status updates (view, post, delete)
* Notifications
* End-to-end encryption
* WhatsApp Web linking and messaging
* Settings (privacy, account, chat backup)
* Cross-platform compatibility

**❌ Out-of-Scope:**

* WhatsApp Business features
* Backend database testing
* Third-party integrations not controlled by WhatsApp

**3. Test Strategy**

**🧪 Types of Testing:**

* **Functional Testing**: Core features like messaging, calling, status
* **UI/UX Testing**: Layout, responsiveness, consistency
* **Compatibility Testing**: iOS, Android, WhatsApp Web on various browsers
* **Performance Testing**: App loading time, message delivery speed
* **Security Testing**: Authentication, encryption, data leakage
* **Regression Testing**: After any update or bug fix

**Tools:**

* Appium for mobile automation
* Selenium for WhatsApp Web
* JIRA/TestRail for test management
* Charles Proxy/Postman for API and network testing

**4. Test Schedule**

| **Phase** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Planning | May 5, 2025 | May 7, 2025 |
| Test Case Design | May 8, 2025 | May 14, 2025 |
| Test Environment Setup | May 8, 2025 | May 9, 2025 |
| Test Execution | May 15, 2025 | May 25, 2025 |
| Bug Fix & Retesting | May 26, 2025 | May 28, 2025 |
| Test Closure | May 29, 2025 | May 30, 2025 |

**5. Test Execution**

* Execute test cases based on priority (High, Medium, Low)
* Log defects with detailed steps and screenshots
* Track defects until closure
* Execute regression tests after each major fix

**6. Test Deliverables**

* Test Plan document
* Test cases (manual and automated)
* Test data sets
* Defect reports
* Daily execution status reports
* Test Summary/Closure report

**7. Entry and Exit Criteria**

**✅ Entry Criteria:**

* Requirements finalized and signed off
* Test environment ready
* Test cases reviewed and approved

**✅ Exit Criteria:**

* All planned tests executed
* Major defects resolved and closed
* Test Summary Report completed
* Stakeholder approval obtained

**8. Test Closure**

* Conduct test closure meeting
* Archive test artifacts
* Capture lessons learned
* Finalize and submit test summary report

**9. Risks and Mitigations**

| **Risk** | **Mitigation** |
| --- | --- |
| Requirements change mid-cycle | Weekly review with stakeholders |
| Delay in environment setup | Parallel planning and early provisioning |
| Defect leakage in production | Strict regression cycle and peer reviews |
| Device/browser fragmentation | Use of real devices and cloud device farms |

**10. Approvals**

| **Role** | **Name** | **Approval Date** |
| --- | --- | --- |
| QA Lead | [Your Name] | [To be filled] |
| Project Manager | [Manager Name] | [To be filled] |
| Product Owner | [PO Name] | [To be filled] |