## **Test Plan Document**

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### **1. Introduction**

The objective of this test plan is to conduct thorough **manual and mobile testing** for the Secure File Sharing web and mobile interface to ensure it is functionally correct, reliable, and user-friendly.

**Application Under Test (AUT):** 🔗<https://file-sharing-application.netlify.app/login>

### **2. Objectives**

* Validate the functionality of core features such as **file upload**, **file sharing**, **authentication**, and **user management**.
* Ensure compatibility across browsers and mobile devices.
* Identify usability issues, security gaps, and performance bottlenecks.
* Test responsive layout and mobile accessibility.

### **3. Scope**

**In Scope:**

* Manual Testing (Web + Mobile)
* File upload/download/link sharing
* UI responsiveness across devices
* Mobile behavior under interruptions ( incoming call)
* Error handling and validations
* Cross-browser testing (Chrome, Safari, Edge, Firefox)

### **4. Testable Features**

* Signup / Login / Logout
* File Upload
* File Sharing (via email)
* File Download
* Navigation Menu & Footer
* Responsive Design
* Error & Alert Messages
* Authentication + Authorization

### **5. Testing Approach**

#### **Testing Types:**

* Functional Testing
* Mobile Testing (Android/iOS responsiveness & interruptions)
* UI/UX Testing
* Compatibility Testing
* Security Testing (unauthorized access to shared links)
* Performance Testing (upload of large files)
* Regression & End-to-End Testing

#### **Methodologies:**

* **Black-Box Testing**
* **Exploratory Testing**
* **Mobile Manual Testing (physical devices and emulators)**

#### **Test Environments:**

* Environments: UAT, Staging
* Devices: Android (v10+), iOS (v13+), Chrome DevTools for responsiveness
* Browsers: Chrome, Firefox, Safari, Edge

### **6. Roles and Responsibilities**

| **Name** | **Role** | **Responsibilities** |
| --- | --- | --- |
| **Sahil Khan** | Test Engineer | Prepare test scenarios and test cases. Perform manual & mobile testing. Report bugs. Communicate findings. |

### **7. Test Schedule**

| **Task** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Plan Preparation | 10/04/2025 | 10/04/2025 |
| Test Scenario Design | 10/04/2025 | 10/04/2025 |
| Test Case Creation | 10/04/2025 | 11/04/2025 |
| Test Execution | 11/04/2025 | 12/04/2025 |
| Defect Reporting | 11/04/2025 | 12/04/2025 |
| Summary Report | 12/04/2025 | 12/04/2025 |

### **8. Test Deliverables**

| **Deliverable** | **Description** | **Owner** | **Due Date** |
| --- | --- | --- | --- |
| Test Plan | Testing strategy and scope | Sahil Khan | 10/04/2025 |
| Test Cases | Manual test cases for all features | Sahil Khan | 11/04/2025 |
| Defect Report | Bugs found with status, severity, priority | Sahil Khan | 12/04/2025 |
| Summary Report | Final status of testing | Sahil Khan | 12/04/2025 |

### **9. Entry & Exit Criteria**

**Entry Criteria:**

* Application deployed and accessible
* Functional requirements shared
* Test environment ready

**Exit Criteria:**

* 100% of high priority test cases executed
* All critical bugs fixed and verified
* Final test report submitted

### **10. Tools**

* **Test Management:** Google Sheets / Docs
* **Bug Tracking:** Google Sheets,
* **Mobile Testing:** Android Physical Device, Browser DevTools
* **API Testing :** Postman, Rest Assured
* **Performance:** JMeter

### **11. Risks and Mitigation Plans**

| **Risk** | **Mitigation Plan** |
| --- | --- |
| Browser compatibility issues | Test across all major browsers early in the cycle |
| Upload fails for large files | Check backend file size limits and timeout handling |
| Mobile UI breakage | Use responsive design checks & physical device tests |
| File link access without auth | Verify token-based link access & expiry settings |

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