**User Acceptance Testing (UAT) Template**

|  |  |
| --- | --- |
| Date |  |
| Team ID | LTVIP2025TMID38625 |
| Project Name | revolutionizing liver care |
| Maximum Marks |  |

**Project Overview:**

Project Name : revolutionizing liver care

Project Description:

**Brief Description:**

The **UAT Template** provides a structured format for validating whether the digital health solution for liver care performs as expected in real clinical scenarios. It involves defining test scenarios, expected outcomes, user roles, and acceptance criteria. This process helps confirm that the system is user-friendly, clinically accurate, secure, and aligned with regulatory standards before full-scale implementation.

**Key Components:**

* **Test Objectives:** Ensure the solution addresses clinical workflows and patient engagement.
* **Test Scenarios:** Simulate liver care use cases such as patient monitoring, report generation, and treatment tracking.
* **Test Data:** Use real or anonymized clinical data for practical testing.
* **Acceptance Criteria:** Define clinical and usability standards that the system must meet.
* **Feedback Collection:** Capture insights from hepatologists, nurses, and patients for iterative improvements.

**Impact:**

A well-designed UAT template ensures the liver care solution is **clinically relevant, safe, and effective**, thereby enhancing diagnosis, monitoring, and patient outcomes in real-world liver disease management.

Project Version: [Version Number]

Testing Period: [Start Date] to [End Date]

**Testing Scope:**

[List of Features and Functionalities to be Tested]

### ✅ ****1. Patient Management Features****

* Patient registration and profile creation
* Electronic Medical Record (EMR) access and updates
* Appointment scheduling and reminders
* Consent management and data privacy controls

### ✅ ****2. Diagnostic & Monitoring Tools****

* Integration with lab/test results (e.g., liver function tests, imaging reports)
* Real-time patient vitals monitoring
* Alert system for abnormal test values
* Historical data visualization (charts/graphs)

### ✅ ****3. AI/ML Decision Support****

* Accuracy of AI-driven liver disease predictions or staging
* Explanation and transparency of AI recommendations
* Clinical validation of decision outputs
* Integration with clinician workflows

### ✅ ****4. Treatment & Care Planning****

* Physician ability to create or modify care plans
* Medication tracking and prescription module
* Notifications for follow-ups or critical events
* Remote patient monitoring support

### ✅ ****5. User Interface & Experience (UI/UX)****

* Ease of navigation for different user roles (doctors, nurses, patients)
* Multi-language support for diverse patient populations
* Accessibility (WCAG compliance)
* Mobile and web responsiveness

### ✅ ****6. Communication & Collaboration Tools****

* Secure messaging/chat between patients and providers
* Video consultation integration
* Task assignment and escalation handling
* Patient education resources and feedback tools

### ✅ ****7. Data Security & Compliance****

* Role-based access control
* Audit trails for user activity
* Compliance with HIPAA/GDPR standards
* Data encryption and secure storage

### ✅ ****8. Reporting & Analytics****

* Customizable clinical reports
* Liver disease progression tracking
* KPI dashboards for doctors and administrators
* Export functionalities (PDF/Excel/CSV)

### ✅ ****9. System Integration****

* Integration with hospital information systems (HIS)
* Interoperability with lab systems and imaging centers
* API testing for third-party tools
* Seamless data exchange with national health registries

### ✅ ****10. Performance & Usability Testing****

* System load handling during peak usage
* Response time for key functionalities
* Error handling and recovery
* Feedback collection and bug reporting module

[List of User Stories or Requirements to be Tested]

### 🧑‍⚕️ ****Clinician/User Stories****

1. **As a hepatologist**, I want to view a patient’s complete liver history and diagnostic records so I can make informed treatment decisions.
2. **As a doctor**, I want to receive alerts when a patient's liver function deteriorates, so I can intervene quickly.
3. **As a clinician**, I want to input notes and recommendations during consultations so that all care records are centrally stored.
4. **As a nurse**, I want to schedule follow-up appointments and manage patient communications to streamline the care workflow.
5. **As a clinician**, I want AI-driven suggestions for liver disease staging so I can validate them against my own judgment.

### 🧑‍💻 ****System Administrator/IT User Stories****

1. **As an administrator**, I want to manage user roles and permissions so that sensitive data is only accessed by authorized personnel.
2. **As an admin**, I want to track all system activities in an audit log for compliance and security audits.
3. **As a developer**, I want to ensure system APIs integrate seamlessly with external hospital systems.

### 🧑‍🤝‍🧑 ****Patient/User Stories****

1. **As a liver patient**, I want to access my test results and reports online so I can monitor my health status.
2. **As a patient**, I want to securely message my doctor if I have concerns between appointments.
3. **As a patient**, I want to get reminders for medication and appointments to follow my treatment plan effectively.
4. **As a patient**, I want to attend video consultations from my mobile phone for easier access to care.
5. **As a patient**, I want educational materials about my liver condition so I can better understand and manage it.

### 📊 ****Data & Reporting Requirements****

1. **As a healthcare provider**, I want to generate and download reports on patient outcomes for internal quality reviews.
2. **As a hospital manager**, I want analytics dashboards showing liver disease trends and outcomes across departments.

### 🔒 ****Security & Compliance Requirements****

1. **As a compliance officer**, I want to ensure that the platform is HIPAA/GDPR compliant to protect patient data.
2. **As a system**, I must encrypt all patient data to ensure security in storage and transmission.

### ⚙️ ****Functional/System-Level Requirements****

1. The system must support 24/7 access with 99.9% uptime reliability.
2. The application must be responsive across desktop, tablet, and mobile devices.
3. All functionalities should support multi-language support for diverse patient populations.

**Testing Environment:**

URL/Location: [Web URL or Application Location]

### 🌐 ****Web URL or Application Location in User Acceptance Testing (UAT) Template – Revolutionizing Liver Care****

In the **User Acceptance Testing (UAT) Template** for a liver care solution, the **Web URL or Application Location** refers to the specific environment or instance where end users (doctors, patients, testers) will access the application to perform UAT.

### 🔹 ****Purpose of the URL/Application Location:****

To provide testers with a **dedicated, stable environment** to evaluate the liver care platform’s features, functionality, and user experience before production rollout.

### 🔸 ****Common Entry in UAT Template:****

| **Field** | **Description** |
| --- | --- |
| **UAT Web URL** | https://uat.livercare-platform.com (example only – replace with real URL) |
| **Environment Type** | UAT / Staging / Pre-production |
| **Access Credentials** | Provided to authorized testers (e.g., login via secure email or role-based IDs) |
| **Supported Platforms** | Web (Chrome, Firefox), Mobile App (Android/iOS) |
| **Deployment Version** | v1.2.3 – UAT Build |
| **Testing Period** | June 25 – July 10, 2025 (example) |

Credentials (if required): [Username/Password]

**Test Cases:**

### 🧪 ****UAT Test Cases Template – Revolutionizing Liver Care****

| **Test Case ID** | **Module** | **Test Scenario** | **Test Steps** | **Expected Result** | **Test Data** | **Status** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| UAT-001 | Patient Registration | Validate new patient registration | 1. Navigate to patient registration screen2. Enter valid details3. Submit the form | Patient is successfully registered and redirected to dashboard | Name, DOB, Contact Info | Pass/Fail |  |
| UAT-002 | EMR Access | View complete medical record for a patient | 1. Login as Doctor2. Search for patient3. Open EMR page | Full EMR including liver function test results is displayed | Existing Patient ID | Pass/Fail |  |
| UAT-003 | AI Diagnostics | Validate AI liver disease prediction | 1. Open diagnostic module2. Upload patient test data3. Trigger AI evaluation | AI provides predicted stage of liver disease with supporting details | Liver Test Reports | Pass/Fail | Verify accuracy |
| UAT-004 | Appointment Module | Schedule follow-up appointment | 1. Go to appointment page2. Choose doctor, date, time3. Submit | Appointment confirmation is generated and sent to patient | Patient ID, Date, Time | Pass/Fail |  |
| UAT-005 | Alerts & Notifications | Check alert for abnormal liver test values | 1. Enter lab result with critical value2. Save report | Alert notification is triggered to doctor and patient | ALT > 200 U/L | Pass/Fail |  |
| UAT-006 | Reports & Dashboard | Generate report of liver disease trends | 1. Login as Admin2. Navigate to reports section3. Select filters and generate | Trend report is displayed and export option is available | Date Range, Filter by Disease | Pass/Fail |  |
| UAT-007 | Secure Messaging | Validate patient-to-doctor secure messaging | 1. Patient logs in2. Opens messaging module3. Sends message to doctor | Message is securely delivered and notification is sent to doctor | Message text, Patient ID | Pass/Fail | Check encryption |
| UAT-008 | Mobile Responsiveness | Validate liver care app on mobile | 1. Open application on mobile browser or app2. Navigate key modules | UI renders correctly and functionalities work as expected | Mobile device/browser | Pass/Fail | Check across devices |
| UAT-009 | User Permissions | Validate role-based access (e.g., nurse vs doctor) | 1. Login as nurse2. Try accessing restricted (doctor-only) modules | Access is denied with proper message | Nurse credentials | Pass/Fail |  |
| UAT-010 | Data Export | Export patient report as PDF | 1. Go to patient record2. Click Export3. Choose PDF format | Patient report is downloaded as a formatted PDF | Patient ID | Pass/Fail | Check formatting |

**Bug Tracking:**

🐞 **Bug Tracking Table – UAT Template for Revolutionizing Liver Care**

| **Bug ID** | **Test Case ID** | **Module** | **Bug Description** | **Severity** | **Priority** | **Reported By** | **Date Reported** | **Status** | **Assigned To** | **Resolution/Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BUG-001 | UAT-002 | EMR Access | EMR page crashes when opening a patient with more than 10 test records | High | High | Dr. A. Sharma | 2025-06-25 | Open | Dev Team 1 | Under investigation |
| BUG-002 | UAT-004 | Appointment Module | Calendar not showing available slots after 5 PM | Medium | Medium | QA Tester 1 | 2025-06-25 | In Progress | UI Dev Team | UI bug, patch scheduled in next release |
| BUG-003 | UAT-005 | Alert Notifications | No alert triggered for abnormal liver enzyme levels | Critical | High | Nurse Priya | 2025-06-26 | Open | Backend Team | Needs urgent fix before go-live |
| BUG-004 | UAT-007 | Messaging System | Messages not being delivered to doctor inbox | High | High | QA Lead | 2025-06-26 | Resolved | Messaging Team | Fixed in patch v1.2.1 |
| BUG-005 | UAT-009 | User Permissions | Nurse role is able to view and edit doctor-only fields | Critical | High | Compliance Officer | 2025-06-27 | Open | Security Team | Role access logic needs review |
| BUG-006 | UAT-010 | Report Export | PDF export cuts off data in liver test table | Low | Low | Admin Tester | 2025-06-27 | Open | Reporting Dev | Minor layout adjustment pending |

**Sign-off:**

Tester Name: [Name of Tester]

Date: [Date of Test Completion]

Signature: [Tester's Signature]

### 📄 ****UAT Sign-Off Table Format****

| **Field** | **Details** |
| --- | --- |
| **Project Name** | Revolutionizing Liver Care – Digital Health Platform |
| **UAT Environment URL** | https://uat.livercare-platform.com (example) |
| **Testing Period** | June 15, 2025 – June 27, 2025 |
| **Total Test Cases Executed** | 50 |
| **Passed Test Cases** | 47 |
| **Failed Test Cases** | 3 (non-critical, fix planned in next release) |
| **Overall UAT Status** | ✅ Accepted / ❌ Rejected |
| **Remarks** | System meets functional, clinical, and user experience expectations |
| **Go-Live Recommendation** | ✅ Yes / ❌ No |

### 🖊️ ****Approval Signatures****

| **Role** | **Name** | **Designation** | **Signature** | **Date** |
| --- | --- | --- | --- | --- |
| UAT Lead / QA | [Name] | UAT Coordinator | [Sign] | [YYYY-MM-DD] |
| Clinical Reviewer | [Doctor/Nurse Name] | Senior Hepatologist | [Sign] | [YYYY-MM-DD] |
| Product Owner | [Name] | Digital Health Manager | [Sign] | [YYYY-MM-DD] |
| IT/Engineering Lead | [Name] | DevOps or Tech Lead | [Sign] | [YYYY-MM-DD] |

**Notes:**

* Attach summary of bugs (resolved/unresolved).
* Document exceptions or deferred issues with mitigation plans.
* Include next steps: training, go-live prep, support model
* UAT concludes with a formal sign-off from all stakeholders, confirming the system is fit for deployment.
* The sign-off section should reflect readiness, outstanding issues, and go-live recommendations.