**Requirements Traceability Matrix (RTM)**

**Prepared By:** Awais Subhani, Software QA Engineer  
**Date:** [Insert Date]

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Req. ID** | **Requirement Description** | **Source** | **Design Doc Ref** | **Test Case ID(s)** | **Test Case Description** | **Test Result** | **Status** | | REQ-001 | User must be able to register with email & password | BRD v1.0 | DD-REG-01 | TC-001, TC-002 | Register with valid/invalid data | Pass | ✅ Verified | | REQ-002 | System must validate unique email during registration | BRD v1.0 | DD-REG-02 | TC-003 | Attempt to register with existing email | Pass | ✅ Verified | | REQ-003 | User login functionality with JWT token generation | BRD v1.0 | DD-LOG-01 | TC-004, TC-005 | Login with valid and invalid credentials | Pass | ✅ Verified | | REQ-004 | Password reset option via email | BRD v1.0 | DD-SEC-01 | TC-006, TC-007 | Request reset, confirm reset link behavior | Pass | ✅ Verified | | REQ-005 | All user data must be encrypted in the DB | SRS v1.2 | DD-SEC-02 | TC-008 (Manual DB validation) | Validate encryption in DB columns | Pass | ✅ Verified | | REQ-006 | Role-based access control for admin and user | SRS v1.2 | DD-AUTH-01 | TC-009, TC-010 | Access admin panel with different roles | Pass | ✅ Verified | | REQ-007 | Application must log user login/logout activity | BRD v1.0 | DD-LOGS-01 | TC-011 | Review logs after login/logout | Pass | ✅ Verified | | REQ-008 | Application uptime must be 99.9% | SLA Document | N/A | MON-001 | Monitor uptime using uptime robot or Pingdom | Ongoing | ⏳ Monitoring | | REQ-009 | System must support multi-language (EN/AR) | SRS v1.3 | DD-I18N-01 | TC-012, TC-013 | Change language, validate translations | Fail (AR incomplete) | ❌ In Progress | | REQ-010 | Audit trail for all CRUD operations | Compliance Doc | DD-AUDIT-01 | TC-014, TC-015 | Validate logs for create/update/delete | Pass | ✅ Verified | |

**Legend:**  
BRD: Business Requirement Document  
SRS: Software Requirement Specification  
DD: Design Document  
TC: Test Case  
MON: Monitoring Script or Tool

**Notes:**

* All requirements are covered by one or more test cases.
* Failures or pending results should be followed up before final release.
* Attach test cases, screenshots, and logs as annexes if used for formal review.