

Health Vault System - Test Cases

1. Login/Register

Description:

This category includes tests that validate the user authentication module, ensuring users can securely register and log in. It checks both successful flows and edge cases such as duplicate accounts or invalid credentials.

- Test Case ID: TC001

Description: Successful Registration

Steps: Enter valid details and register

Expected Result: User account created

- Test Case ID: TC002

Description: Registration with existing email

Steps: Use already registered email

Expected Result: Error: Email exists

- Test Case ID: TC003

Description: Login with valid credentials

Steps: Enter correct email & password

Expected Result: Redirect to dashboard

2. Upload Medical Records

Description:

Tests in this category verify the system's capability to handle file uploads correctly. This includes accepting valid file types, rejecting unsupported formats, and handling file size limits.

- Test Case ID: TC005

Description: Upload valid record

Steps: Upload PDF/image

Expected Result: Record uploaded successfully

- Test Case ID: TC006

Description: Upload unsupported format

Steps: Upload .exe/.zip

Expected Result: Error: Invalid format

- Test Case ID: TC007

Description: Upload large file

Steps: Upload file >10MB

Expected Result: Error or success based on config

3. Grant/Revoke Access via OTP

Description:

This section tests the system's authorization mechanism using OTPs. It ensures secure access is granted only with valid credentials and that users can revoke access when necessary.

- Test Case ID: TC008

Description: Grant access with valid OTP

Steps: Doctor enters valid OTP

Expected Result: Access granted

- Test Case ID: TC009

Description: Grant access with invalid OTP

Steps: Doctor enters wrong OTP

Expected Result: Error: Invalid OTP

- Test Case ID: TC010

Description: Revoke access

Steps: Revoke from settings

Expected Result: Doctor's access removed

4. View Medical Records

Description:

These test cases confirm that authorized users can view the medical records as expected. They ensure that access is properly restricted to the record owner or a granted third party.

- Test Case ID: TC011

Description: Patient views own records

Steps: Login and navigate

Expected Result: Records displayed

- Test Case ID: TC012

Description: Doctor views shared record

Steps: Enter OTP

Expected Result: Shared records shown

5. Search & Filter Records

Description:

Tests in this group verify that users can effectively search and filter through their medical records based on various parameters like name, date, and specialization.

- Test Case ID: TC013

Description: Search by name

Steps: Search in bar

Expected Result: Matching records listed

- Test Case ID: TC014

Description: Search by date

Steps: Select date range

Expected Result: Filtered records shown

- Test Case ID: TC015

Description: Filter by specialization

Steps: Choose specialization

Expected Result: Relevant records listed

6. Delete Medical Records

Description:

This category ensures that users can delete records intentionally and that the system handles deletion of already removed records gracefully with proper error messages.

- Test Case ID: TC016

Description: Delete existing record

Steps: Click delete on record

Expected Result: Record removed

- Test Case ID: TC017

Description: Delete already deleted record

Steps: Try deleting again

Expected Result: Error: Not found

7. Security & Validation

Description:

These test cases focus on security aspects like unauthorized access prevention, session handling, and validation of user actions. They ensure the application maintains data integrity and privacy.

- Test Case ID: TC018

Description: Unauthorized access

Steps: Doctor tries without OTP

Expected Result: Access denied

- Test Case ID: TC019

Description: Session timeout

Steps: Idle > timeout

Expected Result: Redirect to login