

# MANUAL TEST CASE REPORT

## Healthcare System

### 1. Introduction

A Healthcare System is a web-based application designed to manage healthcare services such as patient registration, appointment scheduling, doctor management, electronic medical records, billing, and reports. It improves operational efficiency and ensures better patient care through digital management of healthcare processes.

This manual test case report validates the functional correctness, usability, and reliability of the healthcare system.

### 2. Objective of Testing

**The objective of manual testing is to:**

- Verify correct functioning of healthcare system modules
- Ensure accurate patient and doctor data management
- Validate appointment booking and billing workflows
- Identify functional and usability defects

### 3. Scope of Testing

#### In Scope

- User Login (Admin / Doctor / Patient)
- Patient Registration
- Doctor Management
- Appointment Scheduling
- Medical Records Management
- Billing and Payment
- Reports Generation
- Logout & Session Management

#### Out of Scope

- Performance and load testing
- Security and penetration testing

- Integration testing with external systems

#### 4. Testing Environment

Parameter	Details
Application Type	Web-based Banking Application
Browser	Chrome, Firefox
Operating System	Windows 10
Testing Type	Manual Functional Testing
Test Data	Dummy patient and doctor data

#### 5. Test Scenarios and Test Cases

##### 5.1 User Registration Module

Test Case ID	Test Case Description	Steps	Expected Result	Status
TC_REG_01	Register with valid details	Enter valid username & password	Login successful	Pass
TC_REG_02	Login with invalid credentials	Enter wrong username/password	Error message displayed	Pass
TC_REG_03	Login with empty fields	Leave mandatory fields empty	Validation message shown	Pass

##### 5.2 Patient Registration Module

Test Case ID	Description	Steps	Expected Result	Status
TC_PAT_01	Register patient with valid data	Enter all mandatory fields	Patient registered successfully	Pass
TC_PAT_02	Register patient with missing fields	Leave required fields blank	Validation error shown	Pass

TC_PAT_03	Register patient with duplicate details	Enter existing patient info	Error message displayed	Pass
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### 5.3 Doctor Management Module

Test Case ID	Description	Steps	Expected Result	Status
TC_DOC_01	Add doctor profile	Enter valid doctor details	Doctor added successfully	Pass
TC_DOC_02	Update doctor details	Edit profile and save	Changes saved correctly	Pass
TC_DOC_03	Delete doctor profile	Click delete	Doctor removed from system	Pass

### 5.4 Appointment Scheduling Module

Test Case ID	Description	Steps	Expected Result	Status
TC_APP_01	Book appointment	Select doctor and date	Appointment confirmed	Pass
TC_APP_02	Book appointment with invalid date	Select past date	Error message displayed	Pass
TC_APP_03	Cancel appointment	Click cancel	Appointment cancelled	Pass

### 5.5 Medical Records Module

Test Case ID	Description	Steps	Expected Result	Status
TC_MED_01	Add medical record	Enter diagnosis details	Record saved successfully	Pass
TC_MED_02	Update medical record	Modify patient record	Updates saved	Pass
TC_MED_03	View medical history	Open patient history	Complete history displayed	Pass

## 5.6 Billing & Payment Module

Test Case ID	Description	Steps	Expected Result	Status
TC_BILL_01	Generate patient bill	Select services	Bill generated successfully	Pass
TC_BILL_02	Make payment	Enter valid payment details	Payment successful	Pass
TC_BILL_03	Payment failure handling	Enter invalid payment data	Error message shown	Pass

## 5.7 Reports Module

Test Case ID	Description	Steps	Expected Result	Status
TC_REP_01	Generate patient report	Select patient	Report generated	Pass
TC_REP_02	Download report	Click download	Report downloaded	Pass

## 5.8 Logout & Session Management

Test Case ID	Description	Steps	Expected Result	Status
TC_LOGO_01	Logout from system	Click logout	User logged out securely	Pass
TC_LOGO_02	Session timeout	User idle	Auto logout occurs	Pass

## 6. Test Data

- **Valid Username:** patient01
- **Valid Password:** Health@123
- **Invalid Password:** 12345
- **Appointment Date:** Future date
- **Payment Mode:** Card / UPI

## 7. Defects Summary

Defect ID	Description	Severity	Status
DF_01	Delay in appointment confirmation	Medium	Fixed
DF_02	Billing summary alignment issue	Low	Open

## 8. Conclusion

The manual testing of the **Healthcare System** was conducted thoroughly to validate all critical functionalities, including patient registration, doctor management, appointment scheduling, medical records handling, billing, and report generation. Each module was tested against defined requirements to ensure accuracy, reliability, and ease of use.

The test results indicate that the system performs efficiently for core healthcare operations and supports smooth interaction between patients, doctors, and administrators. Minor defects identified during testing were properly documented and communicated for correction.

In conclusion, the healthcare system meets its functional requirements and is **stable, user-friendly, and ready for deployment**, with scope for future enhancements in security, performance, and overall user experience.