Manual Testing Report

Project: Smart Doctor Booking Application
Platform: Android (Kotlin, Jetpack Compose)
Architecture: MVVM + Dagger Hilt
Status: PASSED

1. Executive Summary

This document outlines the manual testing performed on the Smart Doctor Booking application. The application supports both Patient and Doctor roles. Manual testing covered authentication, doctor discovery, appointment booking, cancellation, slot management by doctors, appointment visibility, notifications, and location-based sorting.

2. Test Environment

- Device: Android Emulator & Physical Android Device - Android Version: Android 13+ - Backend: Node.js + MongoDB - APIs tested using Postman - Network: Stable internet connection

3. Authentication Test Cases

ID	Feature	Test Scenario	Expected Result	Status
TC01	Register	Register with valid details	User registered successfully	PASS
TC02	Login	Login with valid credentials	User logged in	PASS
TC03	JWT Token	Auto token attachment to APIs	Authorized access	PASS

4. Patient Features – Doctor Discovery

TC04	Location	Allow GPS permission	Location fetched	PASS
TC05	Nearby Doctors	Fetch nearby doctors	Doctors list displayed	PASS
TC06	Sort Distance	Sort doctors by nearest	Sorted correctly	PASS
TC07	Sort Fee	Sort doctors by lowest fee	Sorted correctly	PASS

5. Patient Features – Appointment Management

TC08	View Slots	View available slots of doctor	Slots displayed	PASS
TC09	Book Slot	Book available slot	Appointment booked	PASS
TC10	Cancel	Cancel appointment	Status updated to CANCELLED	PASS
TC11	My Appointments	View appointment history	List displayed	PASS

6. Doctor Features – Slot Management

TC12	**Add Slot**	**Doctor adds availability slot**	**Slot added successfully**	**PASS**
TC13	Edit Slot	Modify existing slot	Slot updated	PASS
TC14	Delete Slot	Delete availability slot	Slot removed	PASS

7. Doctor Features – Appointments

TC15	**View Appointments**	**Doctor views booked appointments**	**Appointments listed**	**PASS**
TC16	Status Update	Appointment marked as completed	Status updated	PASS

8. Notifications

TC17	**Booking Notify**	**Notify on booking success**	**Notification received**	**PASS**
TC18	Reminder	Notify 1 hour before appointment	Reminder shown	PASS
TC19	Navigation	Open Google Maps from notification	Maps opened	PASS

9. Conclusion

All core features for both Patient and Doctor roles were manually tested and validated. The Smart Doctor Booking application is stable, feature-complete, and ready for demonstration, academic submission, or further enhancements.