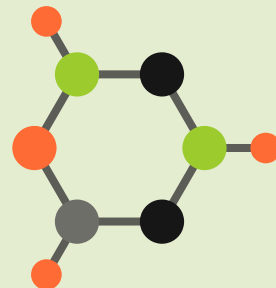


FINAL YEAR PROJECT · B.TECH COMPUTER SCIENCE

Hospital Appointment Booking System

Online OPD booking with token tracking

Aarav Sharma · Diya Patel · Prof. R. K. Mehta · Computer Science, 2025–26



Agenda

01

Introduction

02

Literature & Gap

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Proposed System

04

Implementation

05

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Conclusion



**Outpatient appointment
booking is still handled
manually in most places —
slow, error-prone and hard
to track.**

Why this project matters

Introduction

- Outpatient appointment booking matters to patients and hospital staff every day
- Current methods are manual, slow and hard to scale
- Affordable technology now makes automation practical
- This project builds hospital appointment booking system as a working prototype

CONTEXT

Most patients and hospital staff we surveyed still rely on paper or spreadsheets for outpatient appointment booking.

Problem statement

01

Manual work

Outpatient appointment booking takes hours of repetitive effort.

02

Errors

Mistakes creep in and are hard to trace.

03

No insight

Patients and hospital staff lack data to make decisions.

Objectives

- Automate the core steps of outpatient appointment booking
- Give patients and hospital staff a simple, mobile-friendly interface
- Store data securely and generate reports
- Evaluate the system against the existing process



Literature survey

Study	Approach	Limitation
Study A	Rule-based automation	Not adaptive
Study B	Mobile data collection	No analytics
Commercial tools	Full-featured suites	Costly and complex

Representative summaries — replace with your own citations.

System architecture



Block diagram

Every module talks through one simple, testable interface.

The system is built in layers: an input layer, a processing service, a database and a dashboard. Each layer can be tested independently, which keeps hospital appointment booking system simple to maintain and extend.



Block diagram / flowchart

Project timeline

Jul

Requirement study

Survey of users and existing tools

Sep–Oct

Development

Modules built and unit tested

Dec

Report

Documentation and final review

Aug

Design

Architecture, database and UI wireframes

Nov

Testing

Integration and field testing

Implementation snapshots



Image 1

Main dashboard

Overview of live data



Image 2

Data entry

Simple forms with validation

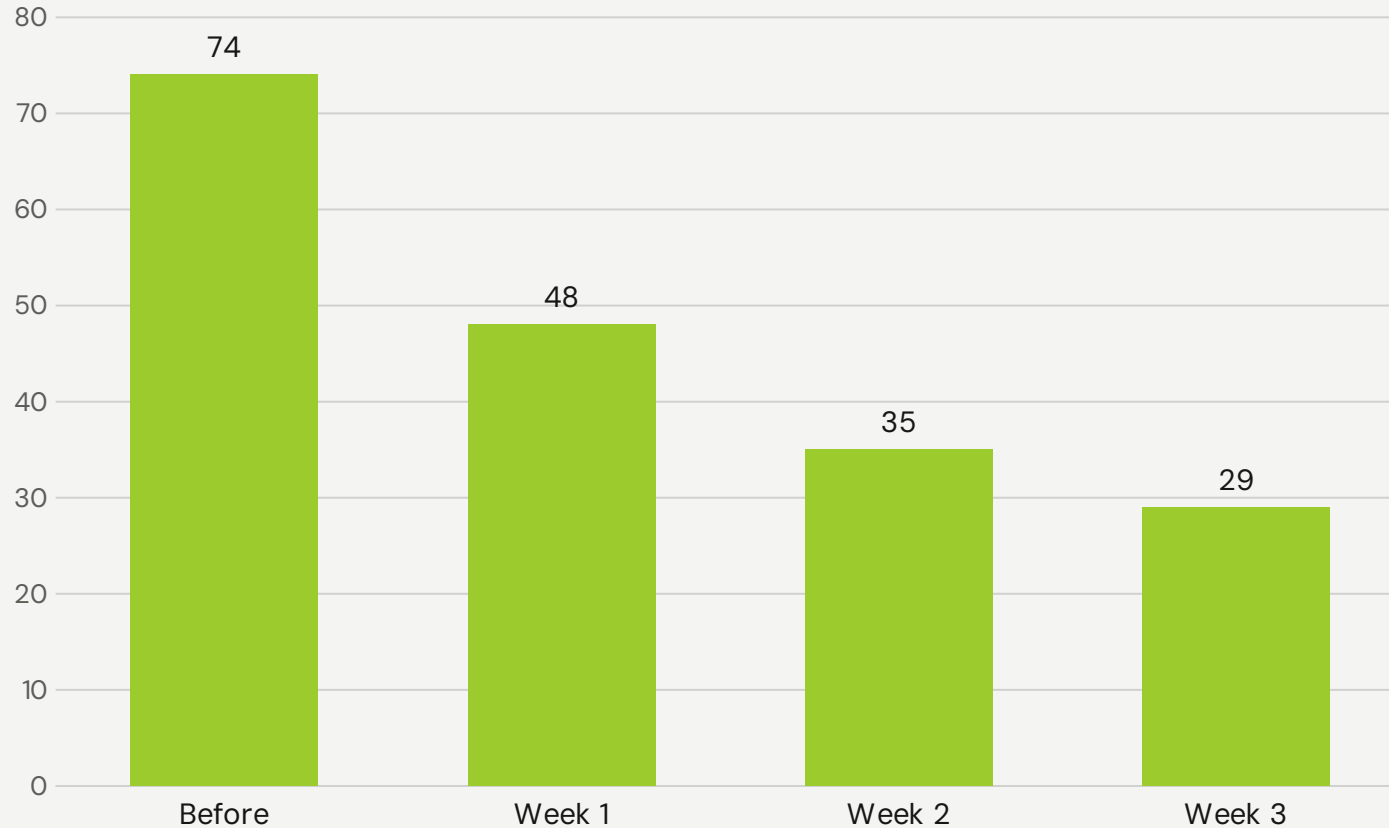


Image 3

Reports

Exportable summaries

Results



Sample data for illustration — replace with your own figures.

60%

shorter waiting time

The prototype improved steadily over the evaluation period (sample data).

Key outcomes

60%

shorter waiting time

100%

records digitised

< 1 s

average response

Figures from our test setup (sample data).

Conclusion

- Hospital Appointment Booking System meets its main objectives
- Automation saves time and reduces errors for patients and hospital staff
- The design is simple to extend and maintain



Image

Thank you

Questions and suggestions are welcome.

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