

Project Report

FRONTEND DEVELOPMENT INTERSHIP

NAME – MINI GUPTA
INTERNSHIP DURATION – 3 MONTH
COMPANY NAME – UNIFIED MENTOR

Clinic Management System

A Firebase Powered Web Application

Project Details

- Project Type: Frontend Development
- Contribution: Individual
- Frontend Technologies: HTML, CSS, JavaScript
- Database : Firebase
- Development IDE: Visual Studio Code(VS Code)

Project Summary

Clinic Management System is a web-based application designed to simplify and automate daily clinic operations. It helps receptionists and doctors manage patients, tokens, and queues efficiently using Firebase.

It includes separate login panels for doctors & receptionists, patient addition forms with details like name, age, contact number and diagnosis.

Project Objective

- Digitize patient registration and token generation.
- Provide role-based access for Doctor and Receptionist.
- Show real-time patient queue to doctors.
- Improve clinic efficiency and workflow.

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Technologies Used

- ☐ HTML, CSS, JavaScript
- ☐ Firebase Authentication
- ☐ Firebase Fire Store Database
- ☐ Modular JavaScript Architecture

Advantages

- Reduces manual errors
- Saves time for staff and patients
- Real-time data synchronization
- Scalable and cloud-based

Tools Used

- **Core:** HTML5, CSS3, JavaScript
- **Version Control:** Git, GitHub
- **Deployment/Hosting:** GitHub
- **Code Editor:** Visual Studio Code(VS Code)

Development & Coding

- Wrote clean, semantic HTML5 for structure.
- Styled with modular, responsive CSS3 using Flexbox .
- Implemented all logic and interactivity using vanilla JavaScript (ES6).
- Structure Fire Store collections and documents.

Features

- Secure Login using Firebase Authentication
- Role-based Dashboard
- Real-time token and queue updates
- Dark & Light theme support

System Roles

- **Receptionist:** Login, register patients, generate tokens, assign doctors.
- **Doctor:** Login, view assigned patients, see waiting queue in real-time.

Working

- Receptionist logs in and registers patient.
- Token is generated and assigned to a doctor.
- Doctor logs in and sees waiting patients.
- Doctor consults patients in order.

Output/ Conclusion

- Doctor Login: Enter username "doctor" and password "pass" → Redirects to Doctor Panel → Add patient (e.g., Name: John, Age: 30, Diagnosis: Fever) → Generates token and adds to list.
- Receptionist Login: Enter username "receptionist" and password "pass" → Redirects to Receptionist Panel → Similar patient addition.
- View All Patients: Shows a table with added patients' details and tokens.
- Logout: Returns to home page.
- Clinic Management System provides a modern, efficient, and scalable solution for managing clinics. It improves workflow, reduces effort, and enhances overall patient experience.

GitHub Link: <https://github.com/mg-0521/Fourth-Repo>

Future Enhancements

- Billing and invoice system
- Prescription management
- Admin dashboard
- Reports and analytics

Thank You & Q/A

Thank you for your time and attention.

I am eager to apply the skills and passion I've developed during this internship to a full-time role.

Open to Questions*