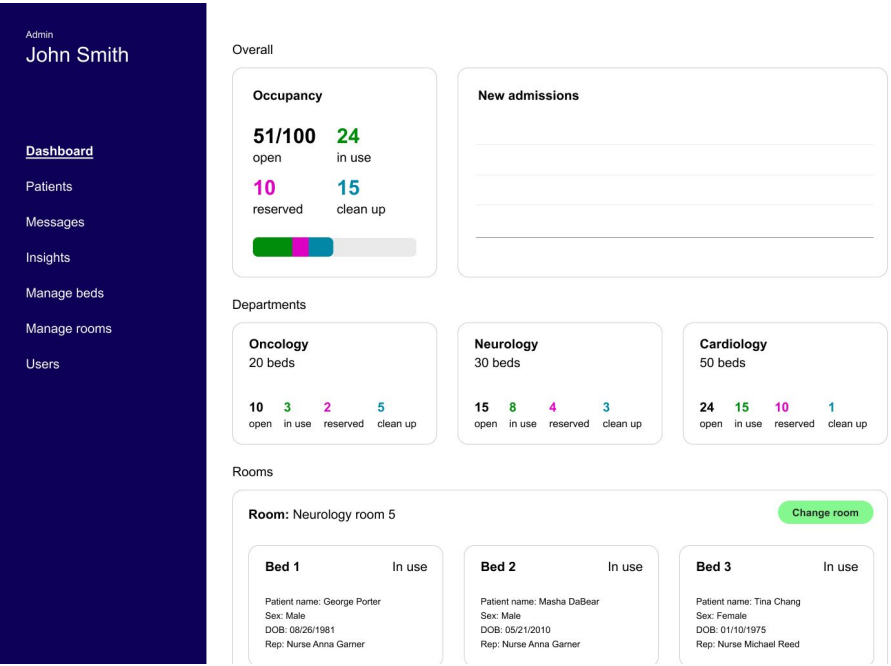
Progress 2 Presentation

Home Dashboard + Predictive Analytics

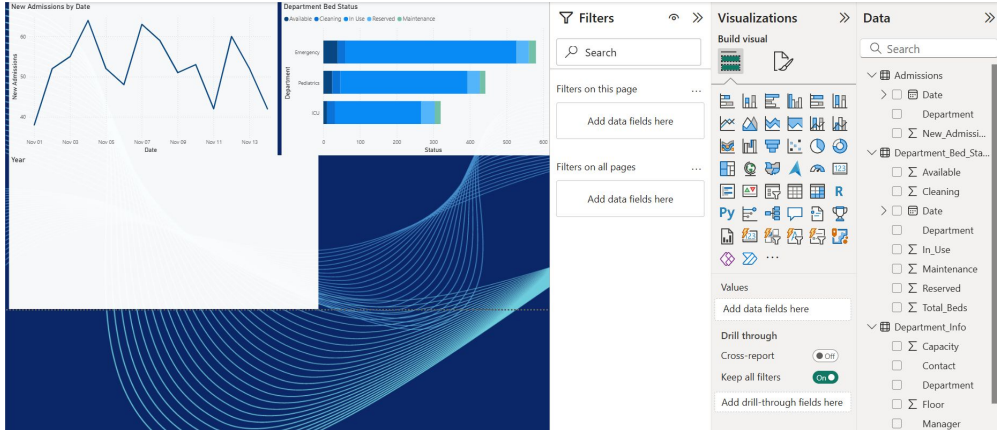


Home Dashboard

- Completed wireframes
- Currently coding the front-end
- Next steps: integrate the back-end and deploy on GCP web hosting

Predictive Analytics on PowerBI

- Creating interactive charts and graphs using mock data
- Next steps: integrate these visualizations into the actual dashboard



Current fix for host issue/future

Current - Firebase Hosting (Frontend Only)

Plan:

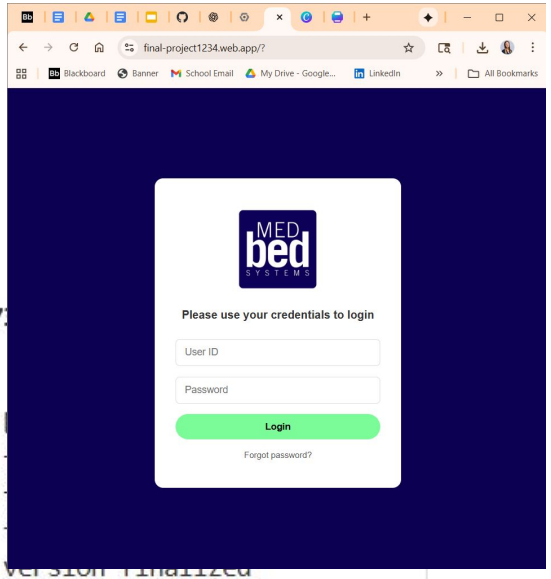
Firebase Hosting (your website)

↓ HTTPS call (fetch/axios)

Cloud Run API (Node.js server)

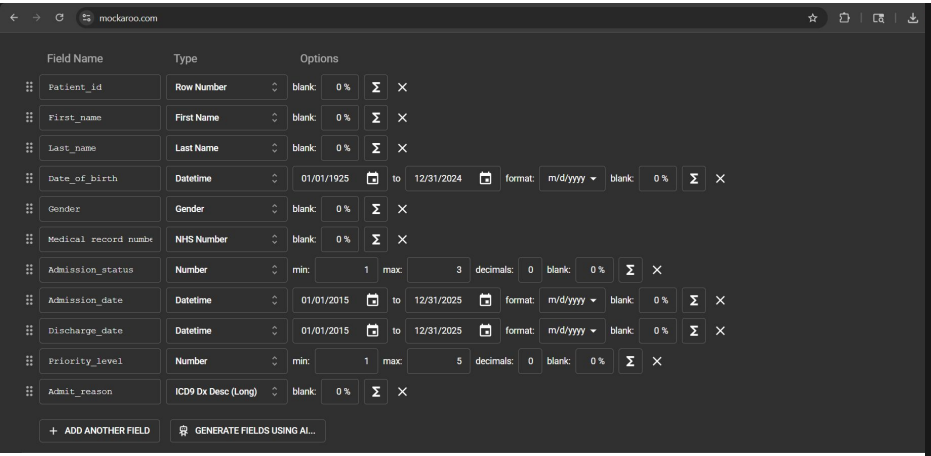
↓ Secure connection

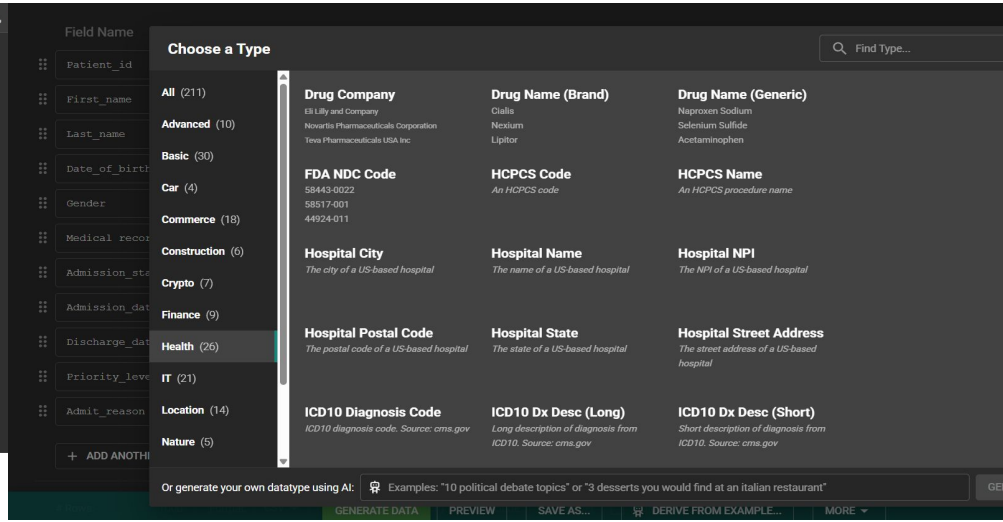
Cloud SQL (MySQL/Postgres)




```
=== Deploying to 'sqldatabasetest-47

i  deploying hosting
i  hosting[sqldatabasetest-473020]:
i  hosting[sqldatabasetest-473020]:
+  hosting[sqldatabasetest-473020]:
i  hosting[sqldatabasetest-473020]:
+  hosting[sqldatabasetest-473020]:
i  hosting[sqldatabasetest-473020]: releasing new version...
+  hosting[sqldatabasetest-473020]: release complete

+  Deploy complete!

Project Console: https://console.firebase.google.com/project/sqld
atabasetest-473020/overview
Hosting URL: https://sqldatabasetest-473020.web.app
PS C:\Users\stell\OneDrive\Desktop\final IT project\capstone-f25-
project-repository-group-5>
```

Mock Data and Backend testing





1. **Create Backend Folder**

backend/

-server.js (main API code) contains the code that runs your server and handles requests from clients.

-package.json (Node.js app info)

-.env (database credentials) keeps secrets out of actual code (passwords, ect.)

-certs/ (SSL certs for secure DB connection)

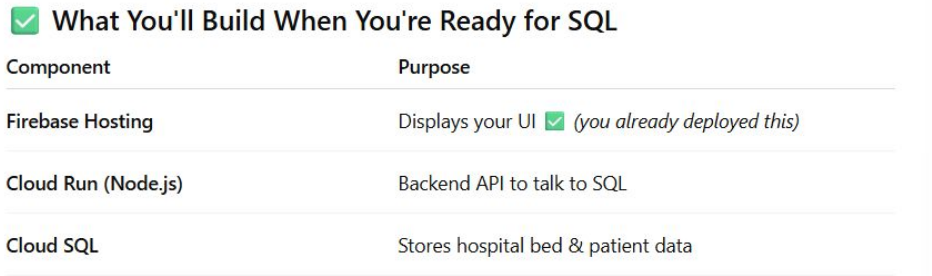
2. **Write API Code in** `server.js`

`Work in progress, research needed, looking into Cloud Run? Other APIs`

Current fix for host issue/future

Once we begin integrating the backend, we will...

- create a Google Cloud Run service that runs our Node.js server and connects securely to our Cloud SQL database
- The Firebase-hosted frontend will communicate with this backend using HTTPS API requests
- Cloud Run will handle authentication and secure environment variables, and it will use a private connection to Cloud SQL



✅ What You'll Build When You're Ready for SQL

Component	Purpose
Firebase Hosting	Displays your UI ✅ *(you already deployed this)*
Cloud Run (Node.js)	Backend API to talk to SQL
Cloud SQL	Stores hospital bed & patient data