Assignment Submission: WA Hospitals Fullstack Web Application

1. Backend Web Application using JavaScript

I developed a full backend using Node.js with Express.js. The backend exposes a RESTful API for CRUD operations and connects to MongoDB Atlas.

2. Minimum of 10 Pages (HTML, CSS, JS, JSON)

- index.html: Main page listing hospitals

- edit.html: Edit hospital data

- upload.html: Add new hospital

- help.html: Help guide

- legal.html: Legal info

- style.css: Styling

- script.js: Dynamic table loading

- edit.js: Edit logic

- upload.js: Post logic

- hospitalData.json: Mock data

3. Database Integration

The backend connects to MongoDB Atlas and interacts using Mongoose. It allows for GET, PATCH, POST, and DELETE operations.

4. Cross-Browser Compatibility

Tested on:

- Google Chrome (Windows & Android)

- Mozilla Firefox (Windows & iOS)

5. RESTful API Endpoint

Endpoints implemented:

- GET /api/hospitals

- POST /api/hospitals

- PATCH /api/hospitals/:code

- DELETE /api/hospitals/:code

6. Data Persistence

Queries used:

- POST: Add hospital

- PATCH: Update hospital values

- DELETE: Remove hospital

Indexes created on:

- code (unique)

- name (searchable)

Partition key: code

Sort key: values.43

7. JavaScript Webpage Creation

Dynamic frontend using fetch(), forms, and live API.

Server uses Express to serve data.

Tested and debugged via browser dev tools.

8. Deployment and Feedback

Backend: https://aihw-hospital-app.onrender.com

Frontend: https://aihw-hospital-next.vercel.app

Feedback collected from peers and trainer.