

MediMap

AI-Based Healthcare Location Finder

Overview

****MediMap**** is an AI-powered healthcare map application designed to help users quickly locate hospitals, clinics, and healthcare facilities based on their disease or treatment needs. The app integrates map services (MapLibre / OpenStreetMap) and live GPS tracking to display nearby healthcare centers, offering users an easy, fast, and interactive experience.

Features

- Real-time location detection using GPS.
- AI-powered hospital recommendation based on user-searched disease/treatment.
- Interactive map using MapLibre GL JS.
- Hospital list with details and “Get Directions” navigation link.
- Scalable backend (Supabase/Firebase ready).
- Future support for teleconsultation, appointment booking, and health record storage.

How It Works

```
```mermaid
```

```
flowchart TD
```

```
 A[Patient opens MediMap App] --> B[App detects user location (GPS)]
 B --> C[User searches disease/treatment]
 C --> D[AI matches suitable hospitals]
 D --> E[Hospitals shown on interactive map]
 E --> F[User selects hospital → Get Directions]
 F --> G[Map API opens navigation route]
```

```
🛠️ Tech Stack
```

- **\*\*Frontend:\*\*** HTML, CSS, JavaScript
- **\*\*Map Engine:\*\*** MapLibre GL JS / OpenStreetMap
- **\*\*Backend (Future):\*\*** Supabase or Firebase
- **\*\*AI Integration:\*\*** Python API (future integration)
- **\*\*Hosting:\*\*** GitHub Pages or Vercel

#### **Project Structure**

```
...
```

```
MediMap/
```

```
|
|— index.html # Main UI
|— style.css # Styling
|— app.js # JS logic for search & map |— hospitals.json # Sample hospital data
|— README.md # Project documentation
|— assets/ # Images and icons
|
|
```

```
...
```

#### **Sample Code**

```
````javascript
// Filtering hospitals by specialization
const user_search = searchInput.value.toLowerCase();
const results = hospitals.filter(h =>
  h.specialization.toLowerCase().includes(user_search)
);
displayHospitals(results);
```

Future Enhancements

- AI model for accurate hospital recommendation.
- Integration with real hospital APIs.
- Appointment scheduling and online consultation.
- Patient feedback and rating system.
- Smart emergency routing.

Contributors

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