

Health Information System

Web-based Application

Bencaleb Mutie

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Project Overview

- - A simple health information system for doctors.
 - Allows management of clients and health programs.
 - Provides a simulated API to retrieve client data.

Features

- - Create health programs (e.g., TB, Malaria, HIV).
 - Register new clients.
 - Enroll clients into programs.
 - Search and view client profiles.
 - Expose client profiles via a simulated API.

Approach

- - Tools Used:
 - HTML, CSS, JavaScript
 - Git & GitHub for version control
- Development:
 - Frontend only, local data storage using JavaScript objects.

System Design

- - Architecture:
 - Client-side web application.
- Components:
 - HTML for structure
 - CSS for styling
 - JavaScript for functionality

UI Demonstration

- User Interface Sections:
 - Create Health Program
 - Register New Client
 - Enroll Client
 - Search for a Client
 - View Client Profile

Create Health Program

Health Info System (Web Version)

Create Health Program

Register New Client

Register New Client

Enroll Client

Enroll Client in Program

Search for a Client & View Client Profile

Search for a Client

Client Profile

```
{  
  "id": "001",  
  "name": "John Opondo",  
  "programs": [  
    "TB"  
  ]  
}
```

Create Program

- `function createProgram() {`
- `const name = document.getElementById('programName').value.trim();`
- `if (!name) return alert('Program name is required');`
- `programs[name] = { name, clients: [] };`
- `alert(`Program '${name}' created.`);`
- `}`

Register Client

- `function registerClient() {`
- `const id = document.getElementById('clientId').value.trim();`
- `const name = document.getElementById('clientName').value.trim();`
- `if (!id || !name) return alert('Both client ID and name are required');`
- `clients[id] = { id, name, programs: [] };`
- `alert(`Client '${name}' registered.`);`
- `}`

Simulated API

- `window.getClientProfileAPI = function(clientId) {`
- `return clients[clientId] || null;`
- `}`

Conclusion

- - Successfully built a basic health information system.
 - Provides fundamental operations.
 - Ready for extension into a full-stack application.

Future Enhancements

- - Add user authentication (doctor login).
 - Integrate a real database (e.g., Firebase).
 - Develop a backend server for API endpoints.

Thank You

- - Questions?
- Contact Info: bencalebokendo@gmail.com