

# Health System Solution

A Comprehensive Client and Program  
Management System

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# Approach

# Goal

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# Featres

Provide a solution for managing health programs and clients.

- Create health programs.
- Register new clients.
- Enroll clients in programs.
- Search for clients.
- View client profiles.
- Expose client profiles via APIs.
- View program details
- View enrollments



Design



# System Architecture

The system is divided into 3 major parts that's database, frontend and backend.

## Frontend:

- Flutter
- Cross-platform support (Web, Mobile, Desktop).

## Backend:

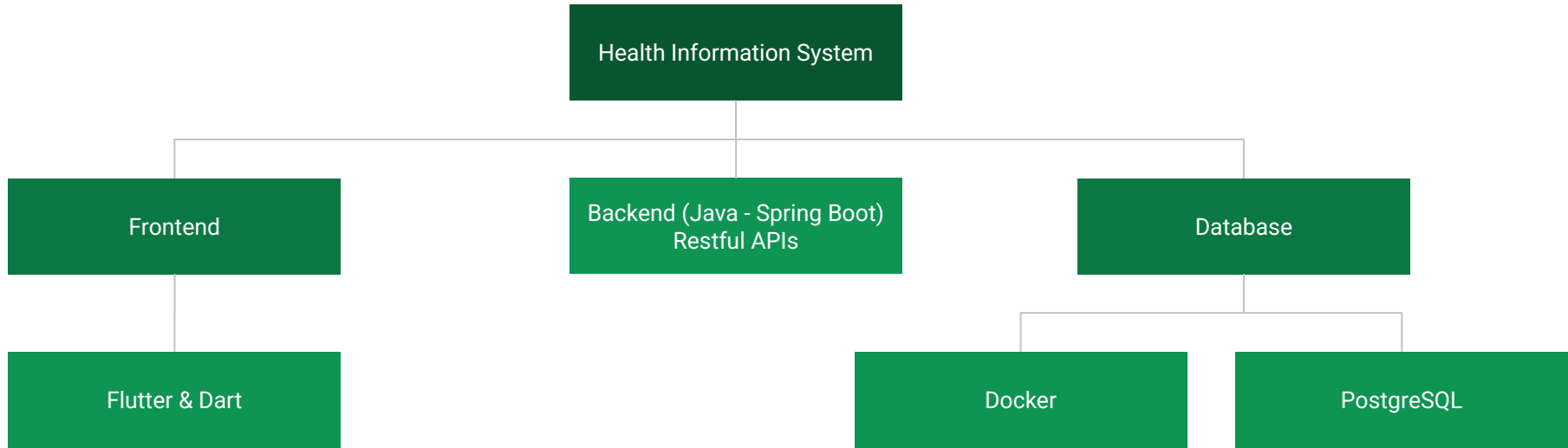
- Spring Boot
- RESTful APIs for client and program management.

## Database:

- PostgreSQL
- Stores client and program data.

## Integration:

- Exposes APIs for external systems.





# Workflow Overview


## Step-by-step process:

1. Doctor Registers to the system
2. Doctor logs into the system.
3. Doctor creates a health programs.
4. Doctor registers a new client.
5. Doctor enrolls the client in one or more programs.
6. Doctor searches for a client and views their profile.
7. Doctor views Individual Programs and enrollments made on them.
8. External systems retrieve client profiles via APIs.

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# Solution





# Key Features & Prototype Demonstration

My solution directly addresses client and program management needs through intuitive UIs and secure APIs.

# Health System



## Welcome to the Health System

Explore our features to manage health programs, register clients, and more.

- ✓ Manage health programs like TB, Malaria, HIV.
- ✓ Register and manage clients.
- ✓ Enroll clients in programs.
- ✓ View detailed client profiles.



Click Login if you already have an account.

→ Login

Register

Click Register to Create a New account.



# Doctor Registration

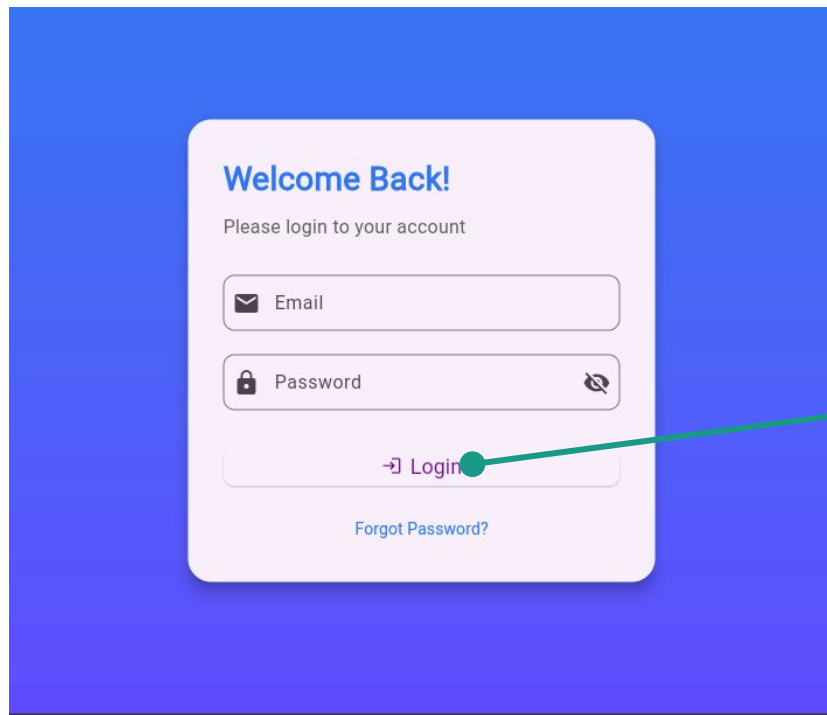
## Create an Account

Please fill in the details below

Fullname	Email
Mobile No.	Specialization
Date Of Birth	Gender
Password	Confirm Password

Enter Details and Submit to complete the Registration Process

# Login Page



A login page UI mockup on a blue gradient background. The login form is a light purple rounded rectangle. It contains the text 'Welcome Back!' in blue, followed by 'Please login to your account' in grey. There are two input fields: 'Email' with an envelope icon and 'Password' with a lock icon and a toggle eye icon. Below these is a 'Login' button with a right arrow icon. At the bottom of the form is a 'Forgot Password?' link.

Welcome Back!

Please login to your account

Email

Password

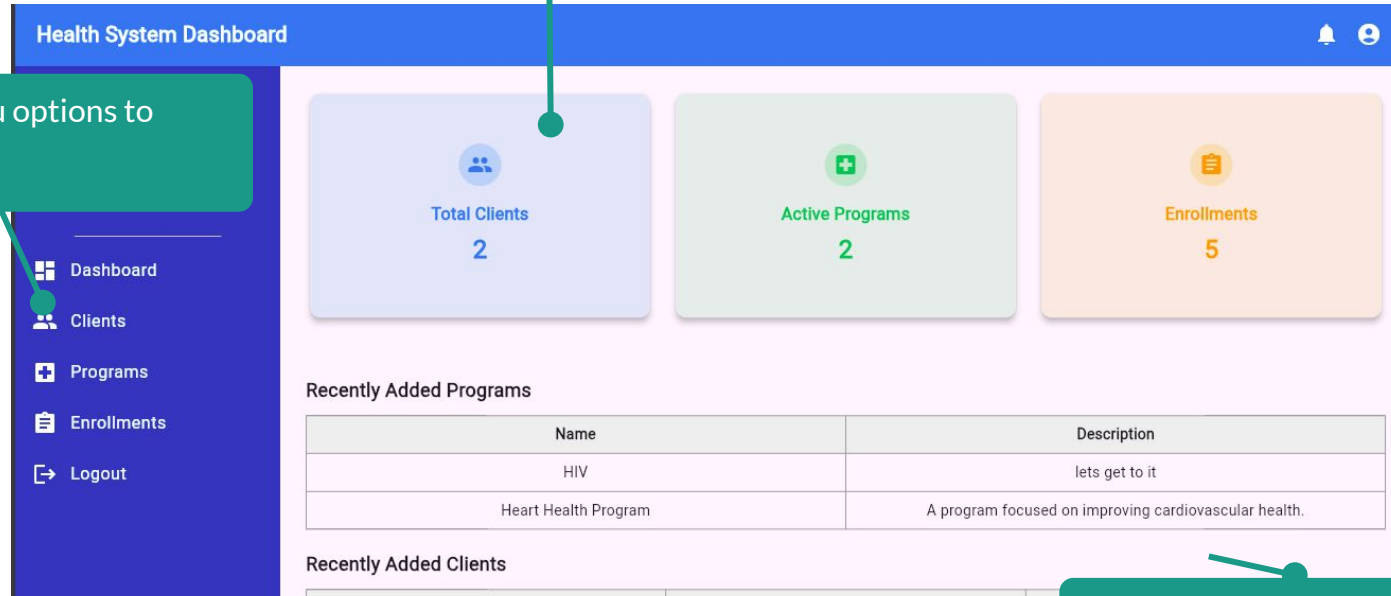
→ Login

[Forgot Password?](#)

Enter Details and Submit to  
access the DashBoard

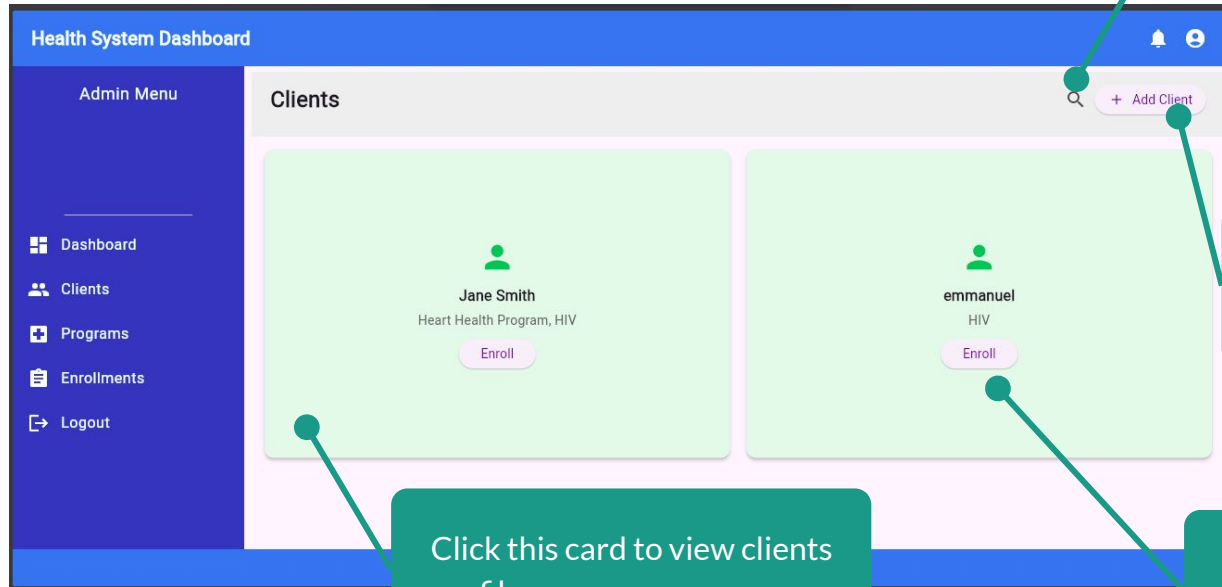
The cards shows summaries data from the database

Click the menu options to navigate



The tables shows recently added programs and clients

# Manage Clients



Click the search icon to search for specific client details

Click the Add Client button to Register a new client .

Click this card to view clients profile.

Click Enroll button to enrol a specific client to programs.

# Manage Clients

Select the programs and enroll a specific client.



The screenshot shows a modal titled "Enroll in Programs". Inside, there is a label "Heart Health Program (ID: 1)" followed by an unchecked checkbox. At the bottom right of the modal are two buttons: "Cancel" and "Enroll".

## Add New Client

Name  
\_\_\_\_\_  
Email  
\_\_\_\_\_  
Phone  
\_\_\_\_\_  
Date of Birth (YYYY-MM-DD)  
\_\_\_\_\_  
Gender (Male/Female)  
\_\_\_\_\_  
Physical Address  
\_\_\_\_\_  
Street  
\_\_\_\_\_

Cancel Add

After clicking the add client button this form will popup for you to fill and add a new client to the system

## Search Clients

Q Enter Name

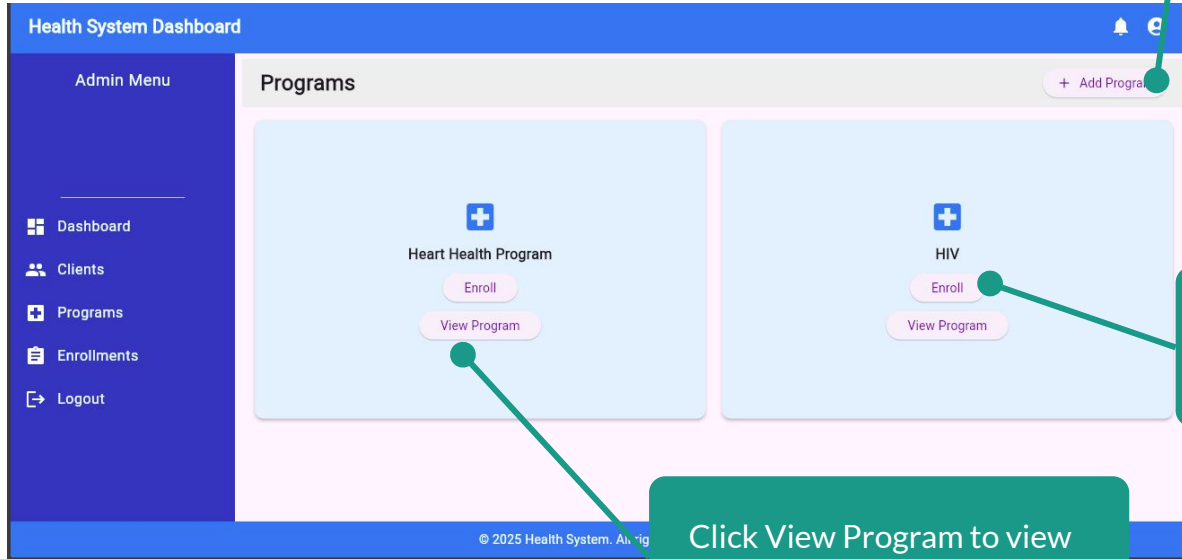
Submit

No results found

Search for a specific client using this form.



# Manage Programs



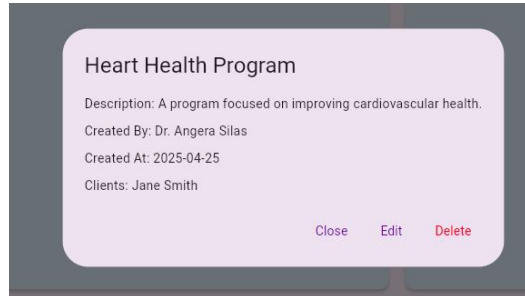
Click the add program Button to add new Program

Click the enroll button to enroll clients to a specific program

Click View Program to view details for a specific program.



# Manage Programs



Heart Health Program

Description: A program focused on improving cardiovascular health.

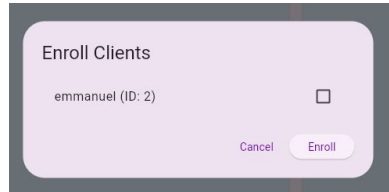
Created By: Dr. Angera Silas

Created At: 2025-04-25

Clients: Jane Smith

Close Edit Delete

Program Details

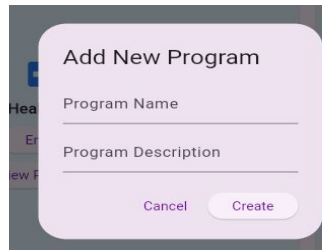


Enroll Clients

emmanuel (ID: 2) ☐

Cancel Enroll

A form used to enroll clients to a specific program



Add New Program

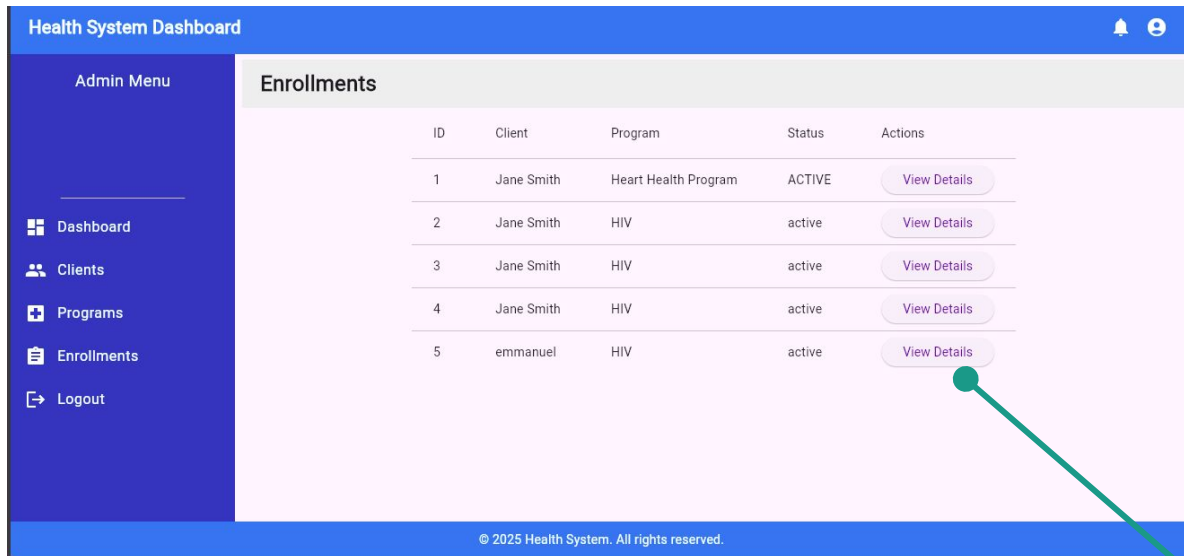
Program Name

Program Description

Cancel Create

A form used to add new programs to the system

# View Enrollments



Health System Dashboard

Admin Menu

- Dashboard
- Clients
- Programs
- Enrollments
- Logout

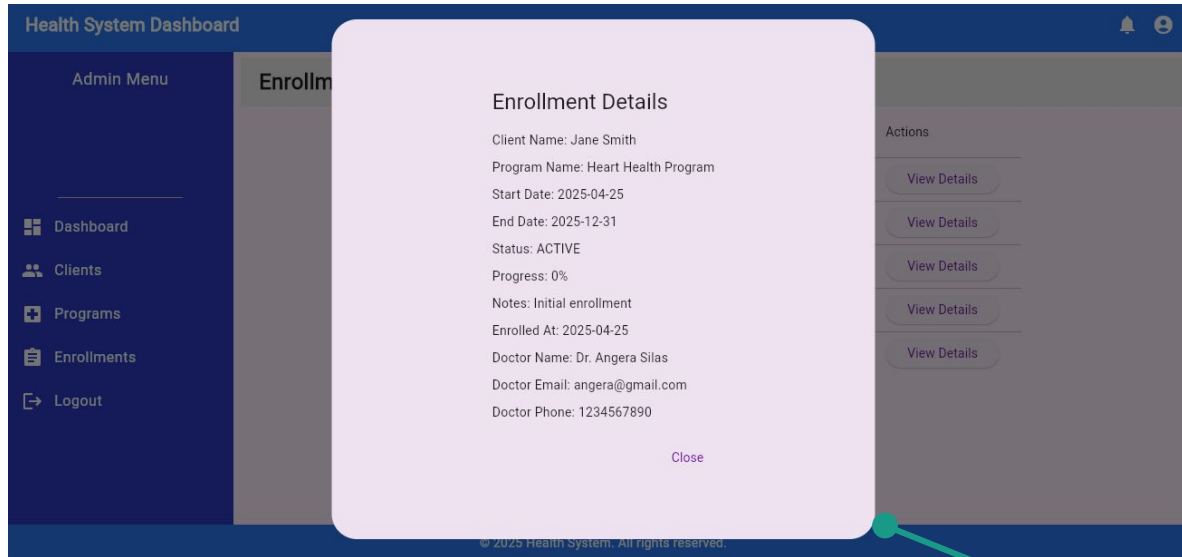
### Enrollments

ID	Client	Program	Status	Actions
1	Jane Smith	Heart Health Program	ACTIVE	<a href="#">View Details</a>
2	Jane Smith	HIV	active	<a href="#">View Details</a>
3	Jane Smith	HIV	active	<a href="#">View Details</a>
4	Jane Smith	HIV	active	<a href="#">View Details</a>
5	emmanuel	HIV	active	<a href="#">View Details</a>

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Click view details button to get more information about a client enrollment.

# View Enrollments



Details about a specific enrollment.





# API Design

Some of the Endpoints Include:

- POST /api/programs/create
- POST /api/client-details/create
- POST /api/enrollments/create
- GET /api/client-details/by-name/{name}
- GET /api/client-details/full-info/{clientId}
- To get details of clients publicly use /api/client-details/full-info

**Thank you!.**

