

Health Information System API Testing

Software Engineer Intern Task – CEMA

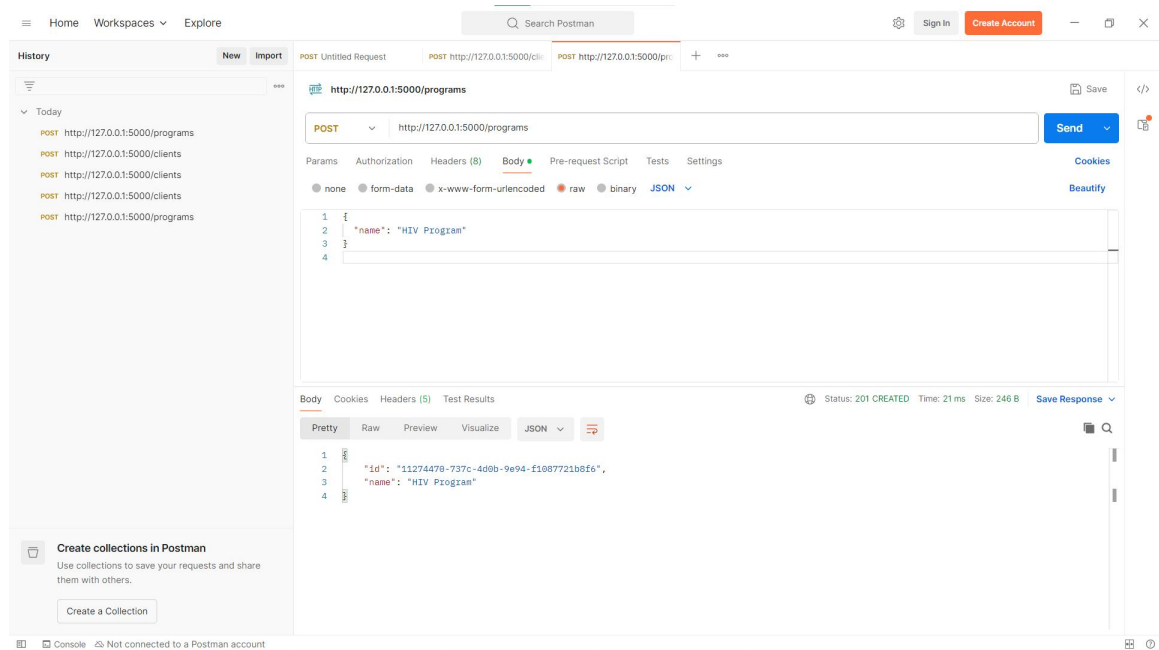
John Maubi

Date: April 26, 2025

Introduction

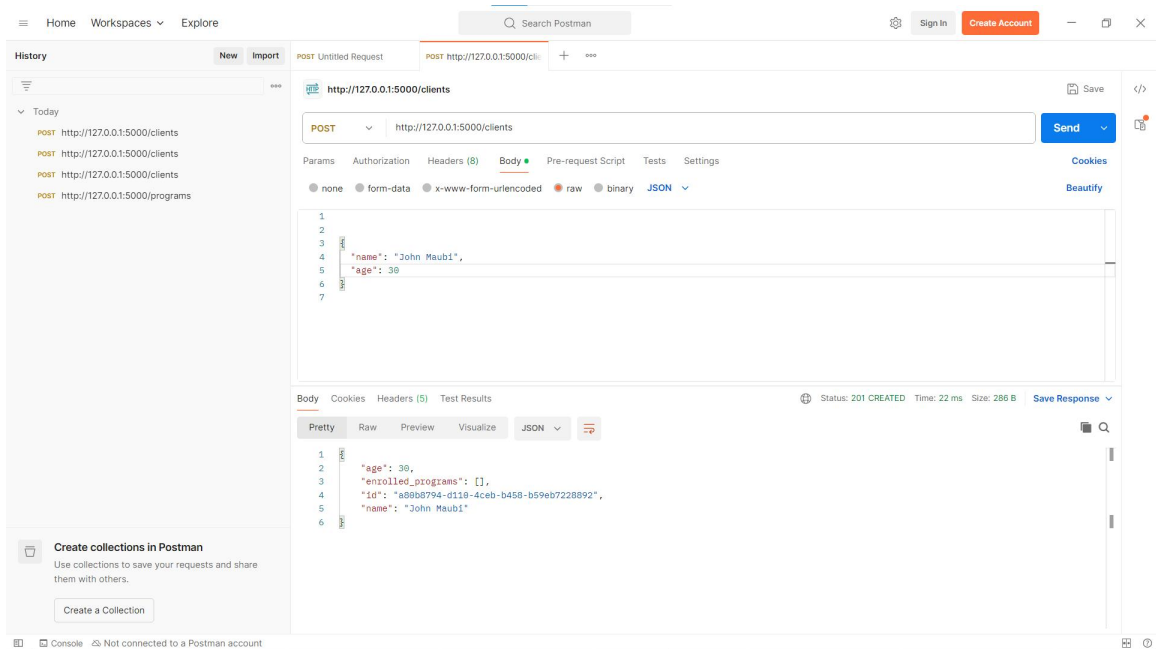
This document demonstrates the functionality of the developed API endpoints using Postman. Each core feature has been tested individually to ensure correctness and API compliance.

1. Create a Health Program



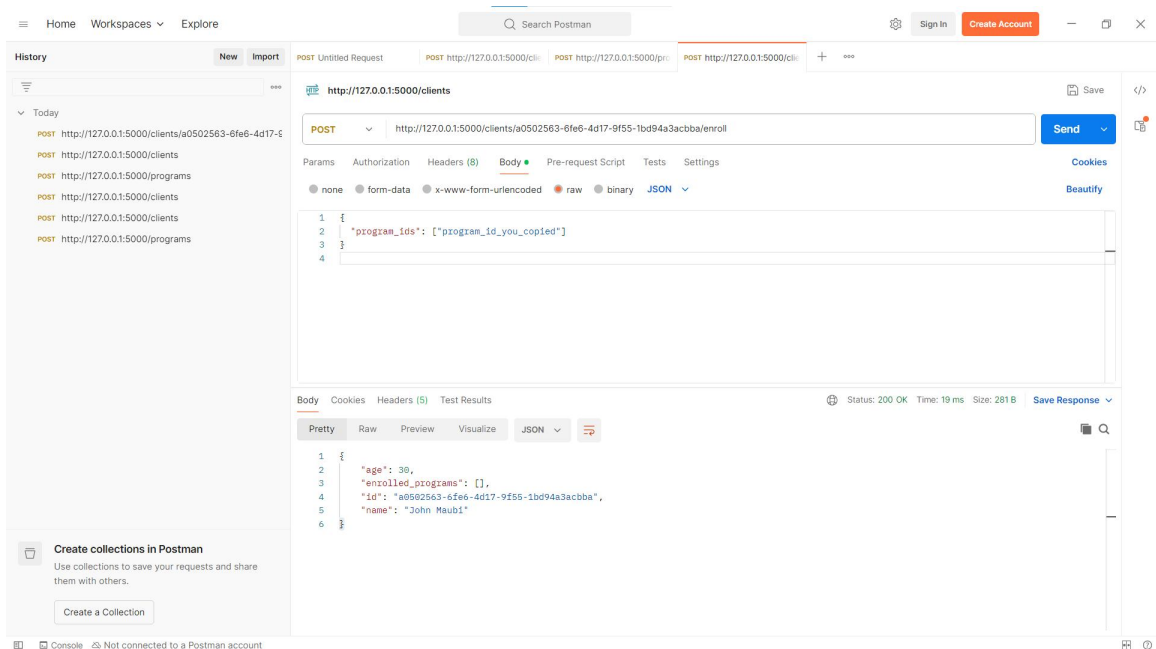
Sent a POST request to `/programs` with program name "HIV Program". The server successfully created a new program and returned a 201 Created response with a unique program ID.

2. Register a New Client



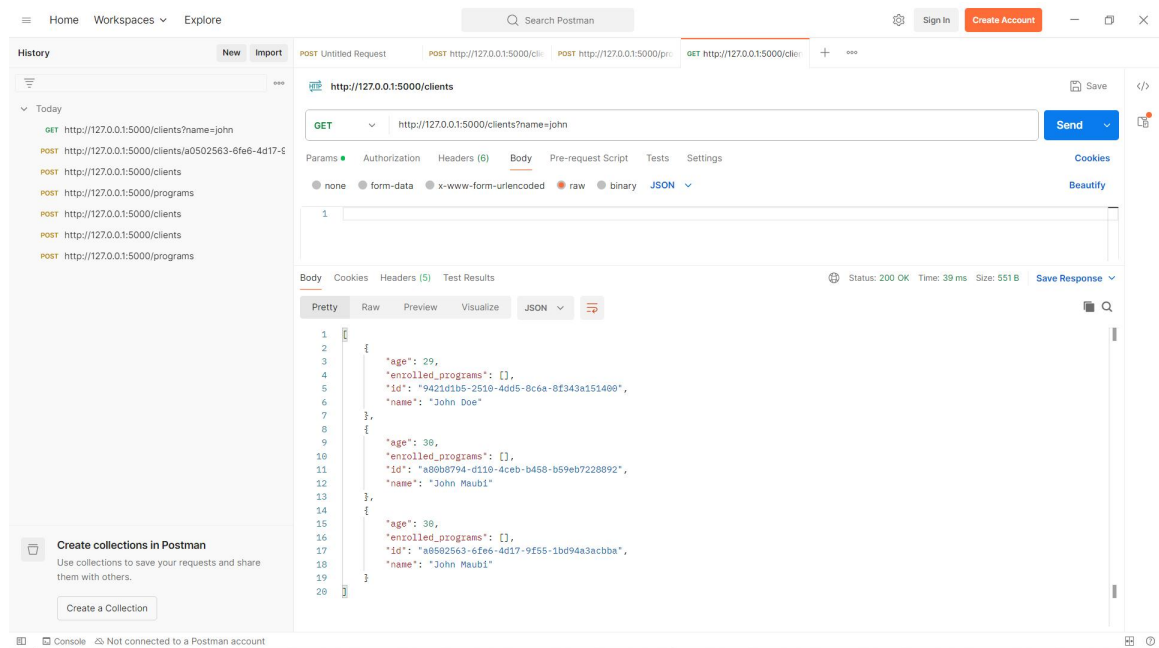
Sent a POST request to `/clients`` to register a client named "John Maubi". The system responded with a unique client ID and the client details.

3. Enroll Client in Programs



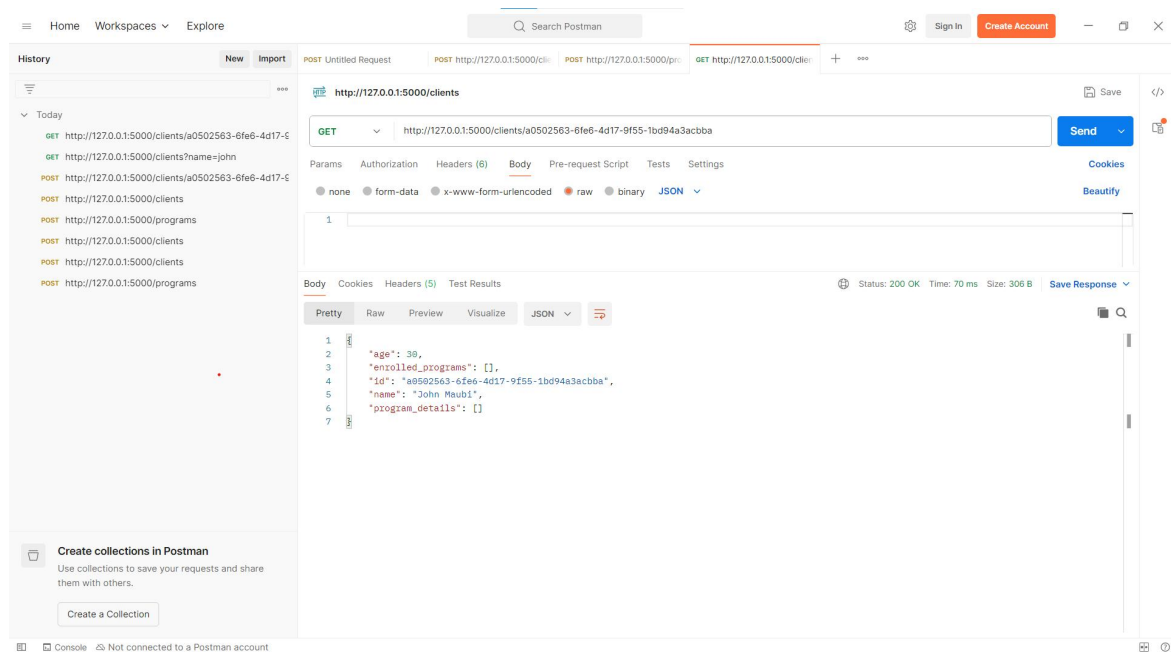
Sent a POST request to `/clients/<client_id>/enroll`` with program IDs. The system enrolled the client into the selected health program(s) successfully.

4. Search for a Client



Sent a GET request to `/clients?name=John` to search for registered clients by name. The server returned a list of matching clients.

5. View Client Profile



Sent a GET request to `/clients/<client_id>` to retrieve a full client profile, including enrolled programs.

Conclusion

All API endpoints were tested successfully using Postman. The system fulfills the core functional requirements for the Software Engineer Intern Task at CEMA.