MyClinic

www.myclinic.tech

“My Clinic”

Start2Impact

Full Stack Development Master

Final Project

https://github.com/diegoddie/S2I_FullStack_FinalProject_MERNclinic

Deployed Project at www.myclinic.tech

Diego Lauricella

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01 - INTRODUCTION

MyClinic is a Full Stack MERN application for a private clinic.

MyClinic is a comprehensive solution designed for managing various aspects of a private clinic, from appointment scheduling to managing doctors' permissions and vacation days.

02 - TECH STACK

BACKEND

- Node.js
- Express.js
- MongoDB
- Mongoose
- JWT
- NodeMailer
- Express-Validator
- Other

02 - TECH STACK

FRONTEND

- React
- Tailwindcss
- Axios
- React Icons
- React Router Dom
- Toastify
- Slick Carousel
- Other

03 - FEATURES & USAGE

Auth & Security

When users register, they receive a confirmation email containing a unique link to verify their account, ensuring that only legitimate users gain access.

For login authentication, we utilize JSON Web Tokens (JWT) and Cookies, with JWTs expiring after 8 hours. This approach enhances security by limiting the duration of user sessions and mitigating the risk of unauthorized access.

Express-validator is utilized as a sanitizer for user input.

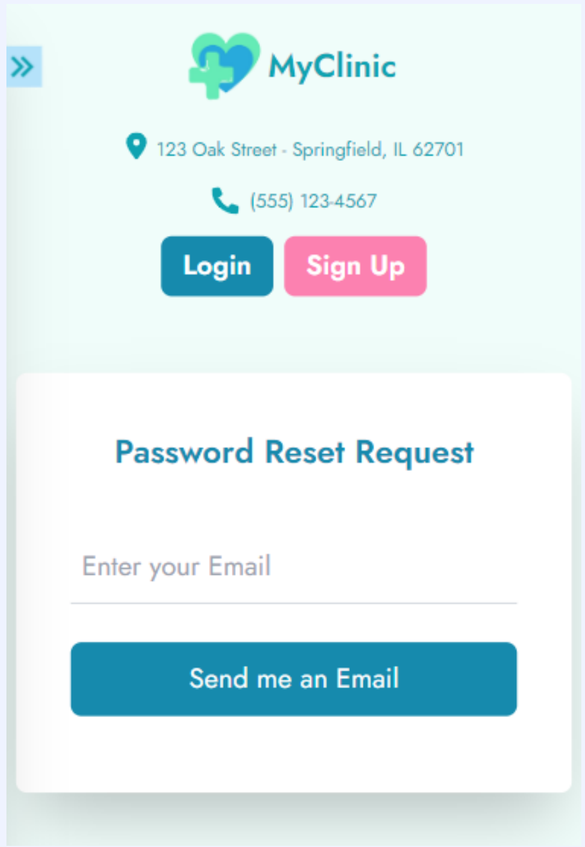
Additionally, users can opt to enable two-factor authentication (2FA), adding an extra layer of protection to their accounts.

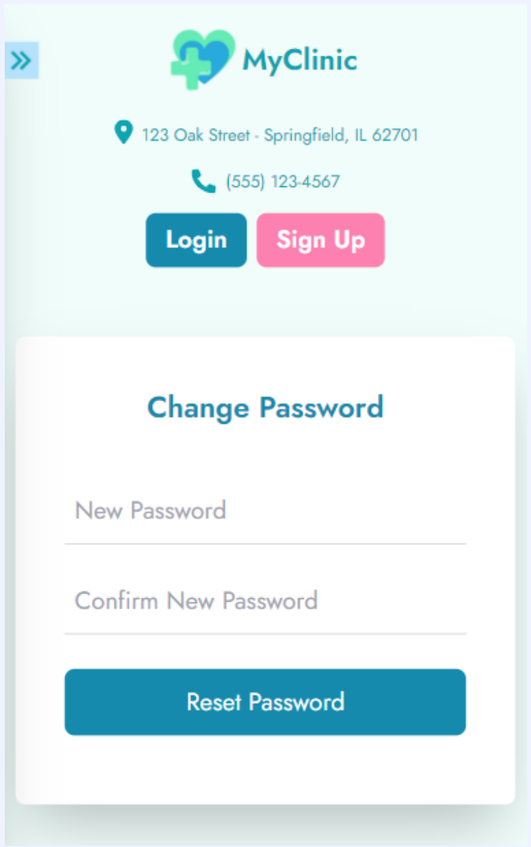
Middleware functions have been added to provide protection based on user type (patient, doctor, administrator) for specific routes.

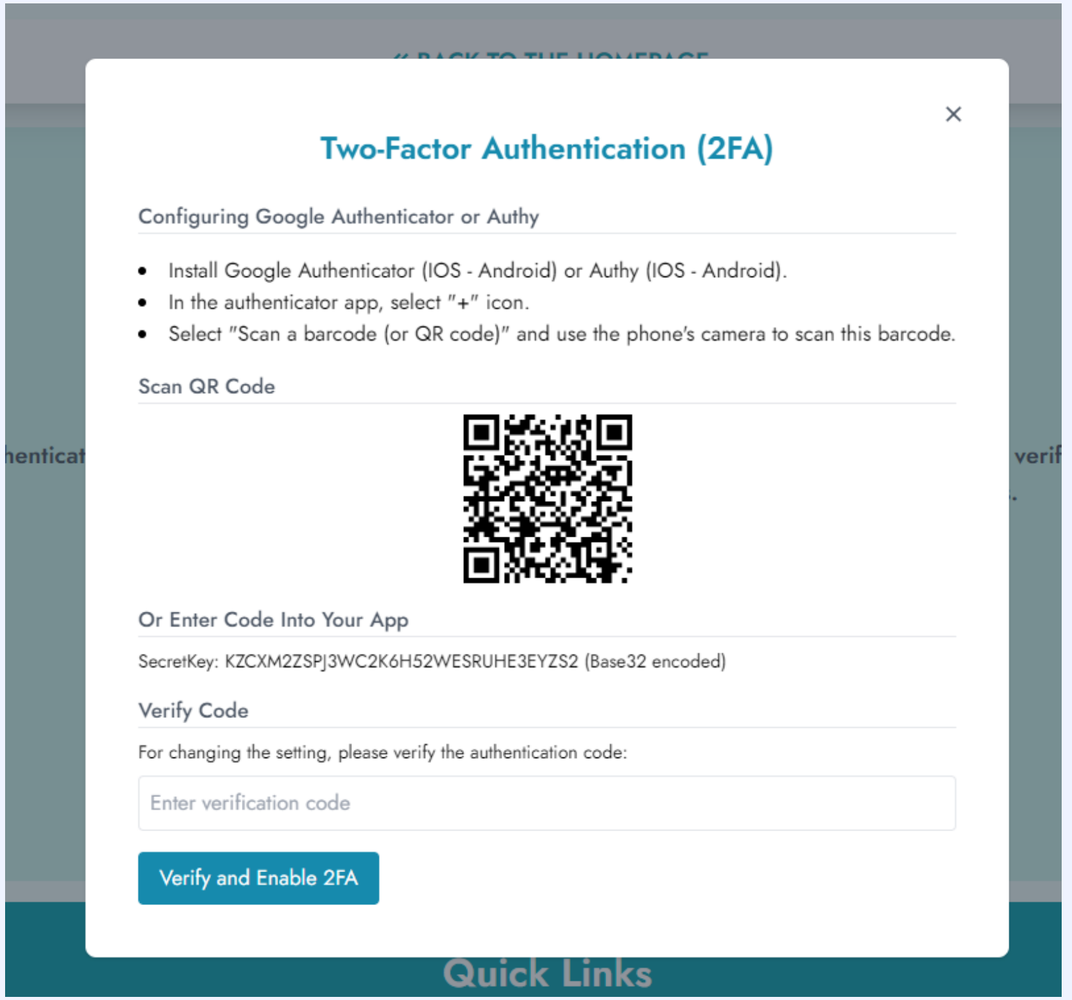
Password reset functionality has been implemented to allow users to reset their password if forgotten.

03 - FEATURES & USAGE

Auth & Security







03 - FEATURES & USAGE

UI-UX

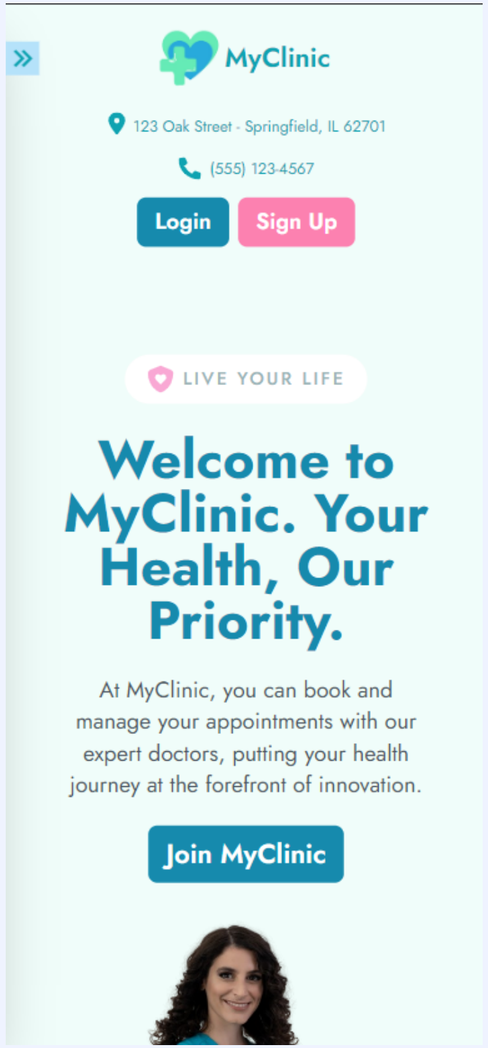
The application is designed to be responsive, ensuring optimal user experience across devices of varying screen sizes, including desktops, tablets, and smartphones.

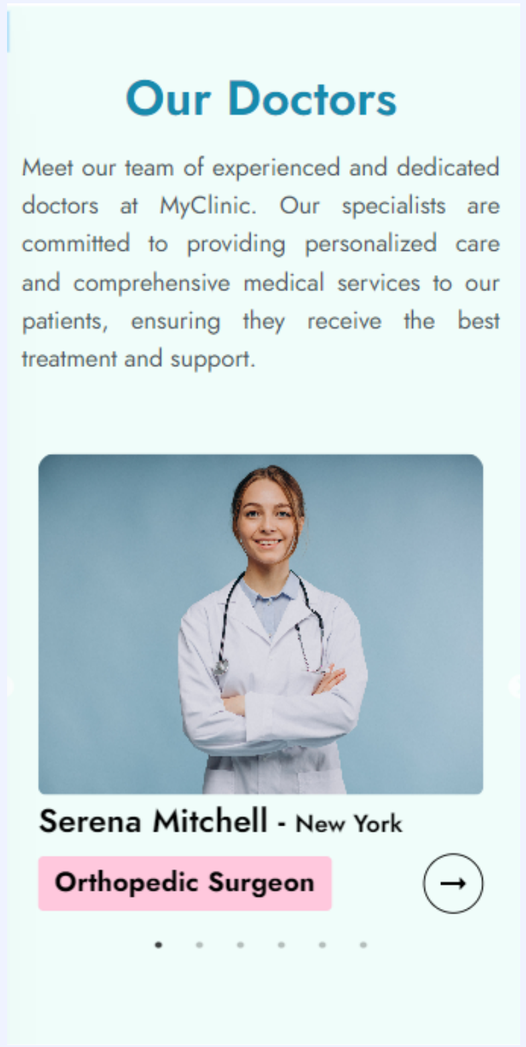
A clear and intuitive user interface is essential for both clinic staff and patients to efficiently navigate and utilize the application.

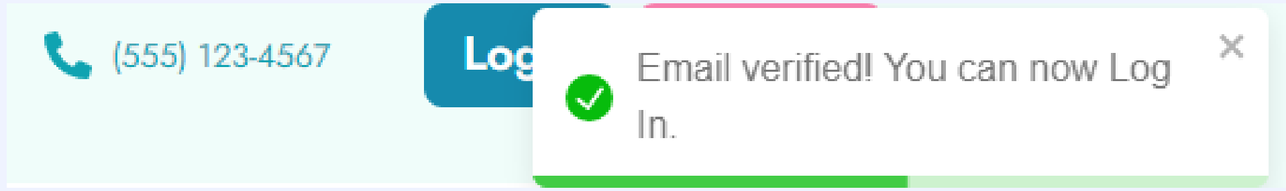
Toastify has been implemented for action notifications.

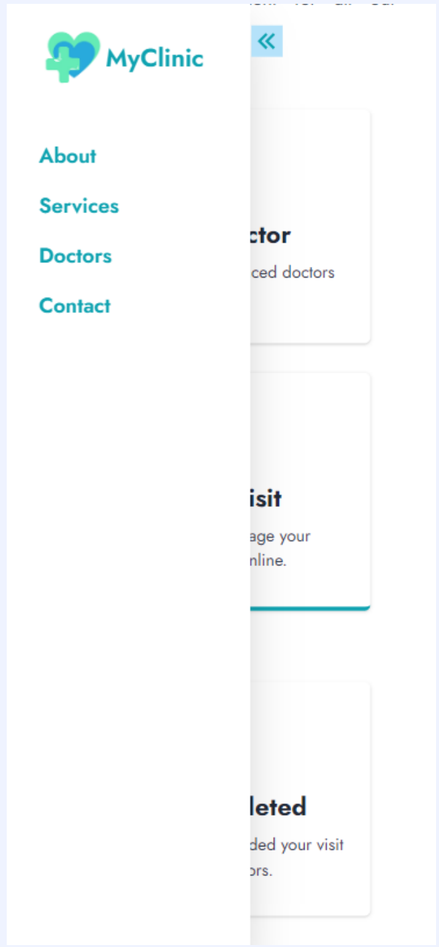
03 - FEATURES & USAGE

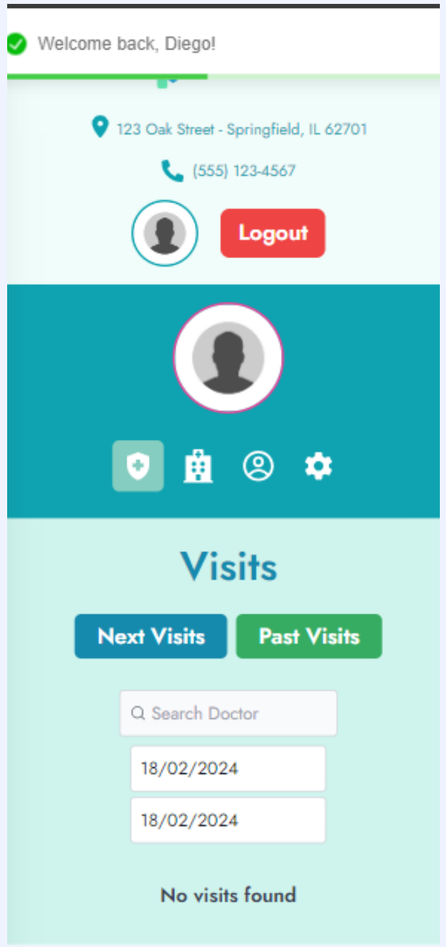
UI-UX











03 - FEATURES & USAGE

PATIENT

A patient can filter doctors based on name, specialization, or city

Can schedule and cancel appointments, receiving email updates.

Can view the list of past appointments and download any attachments (such as invoices).

03 - FEATURES & USAGE

PATIENT

Victor Nguyen

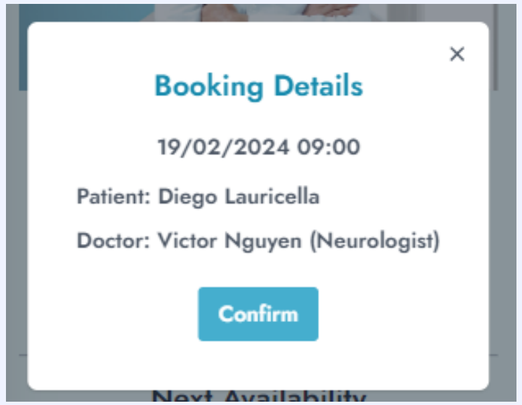
Neurologist

About Contacts Book

Next Availability

MON
19/02/2024
09:00

Book



Visits

Next Visits | Past Visits

Search Doctor

01/01/2024 17/02/2024

Date ↓	Patient	Doctor	Specialization	Action
12/02/2024 16:00	Diego Lauricella	Victor Nguyen	Neurologist	PDF

03 - FEATURES & USAGE

DOCTOR

Receives a welcome email with a temporary password when created by the administrator, allowing them to access the system.

Receives an email whenever a patient schedules or cancels a visit, keeping them updated on scheduled activities.

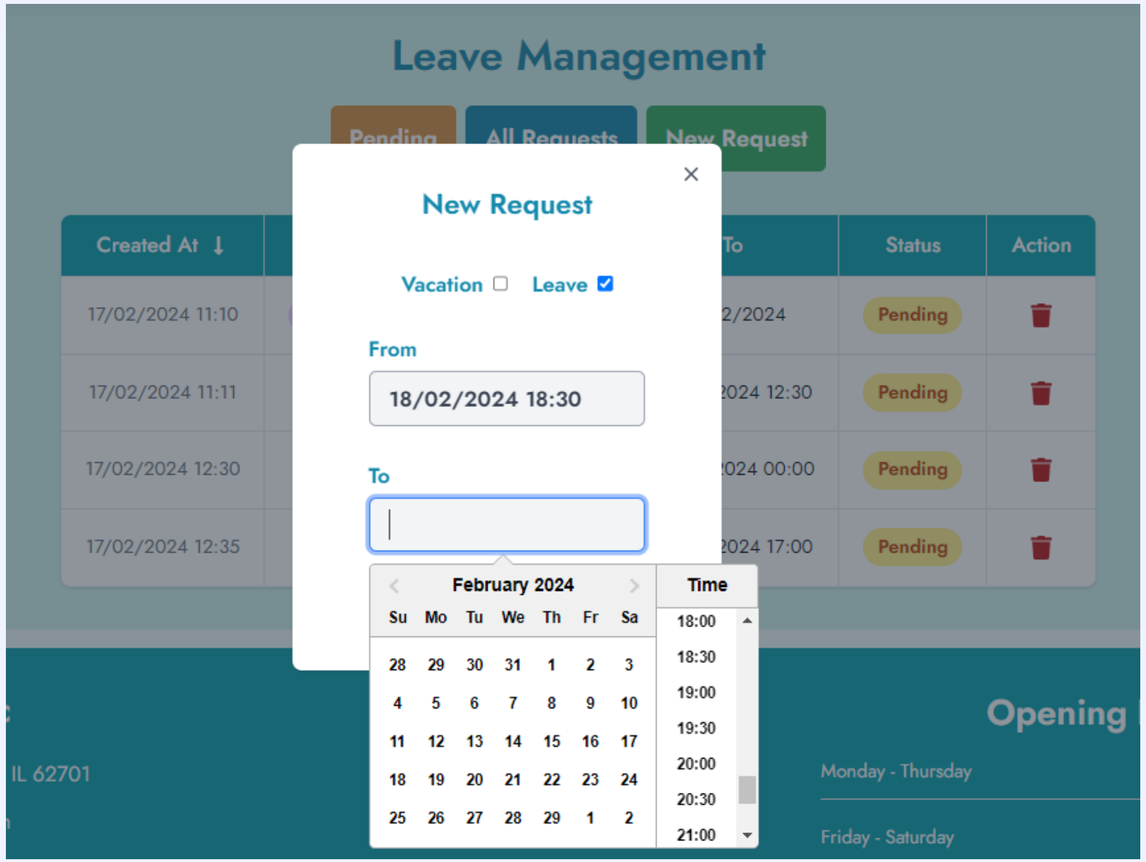
Can make requests for vacation and leave, which must then be authorized by the administrator.

The doctor's availability is real-time and takes into account work shifts, any other scheduled appointments, and authorized vacation/leave days.

03 - FEATURES & USAGE

DOCTOR

☐ ☆	mydevjourney22 3	Welcome to Our Clinic! - Welcome to our clinic! Your temporary password is: Ofn2WC4Ye9. Please use this password to log in here. You can change it later.
☐ ☆	mydevjourney22	Visit Cancellation - Visit Cancellation Patient: Diego Lauricella Tax ID: LRCDGI98D22B157O The visit scheduled on 16/02/2024 10:00 has been cancelled.
☐ ☆	mydevjourney22	New Visit Scheduled - New Visit Scheduled Date: 16/02/2024 10:00 Patient: Diego Lauricella Tax ID: LRCDGI98D22B157O



03 - FEATURES & USAGE

ADMIN

Create new doctors (with their respective work shifts) or remove existing ones

Authorize or decline leave/vacation requests from doctors. Admins receive email notifications whenever a doctor submits a new request for vacation/leave.

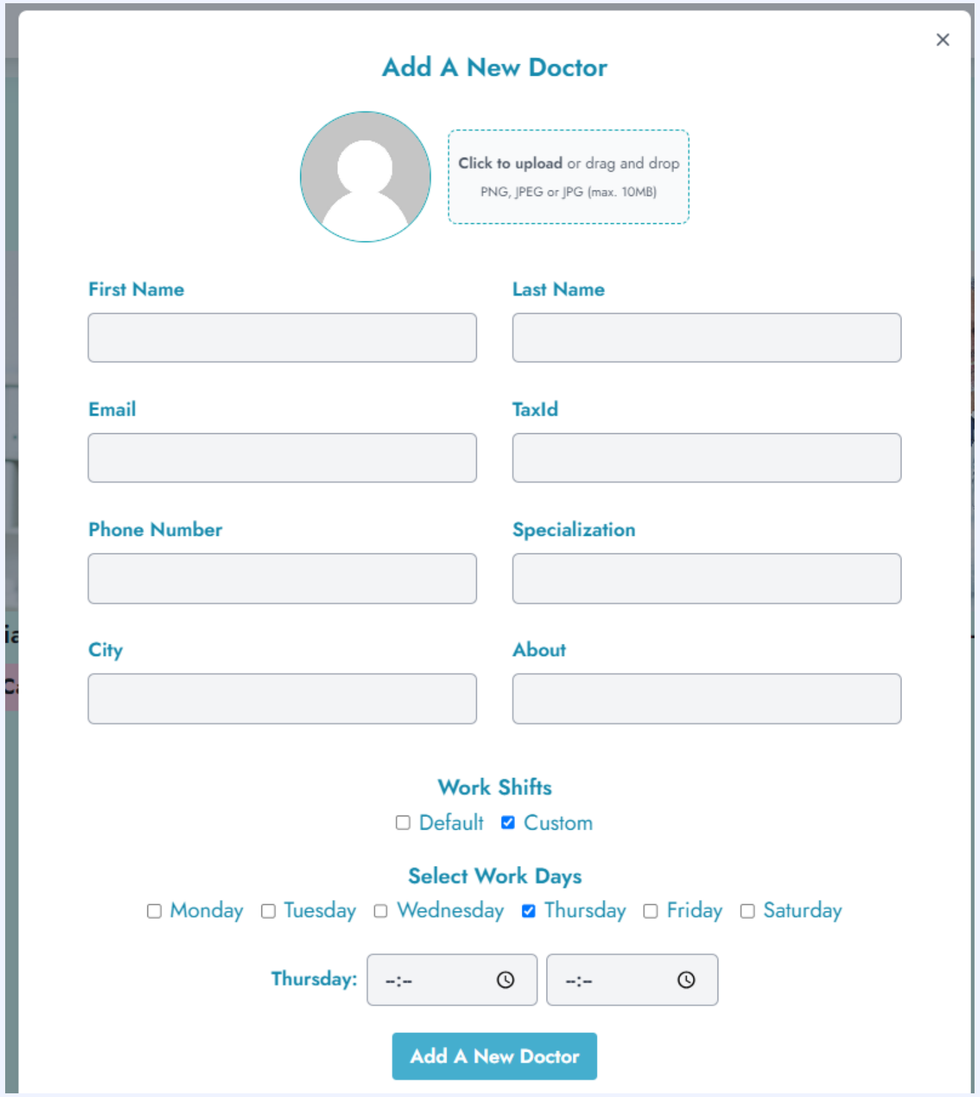
Record payments for completed visits, including attaching documentation such as invoices

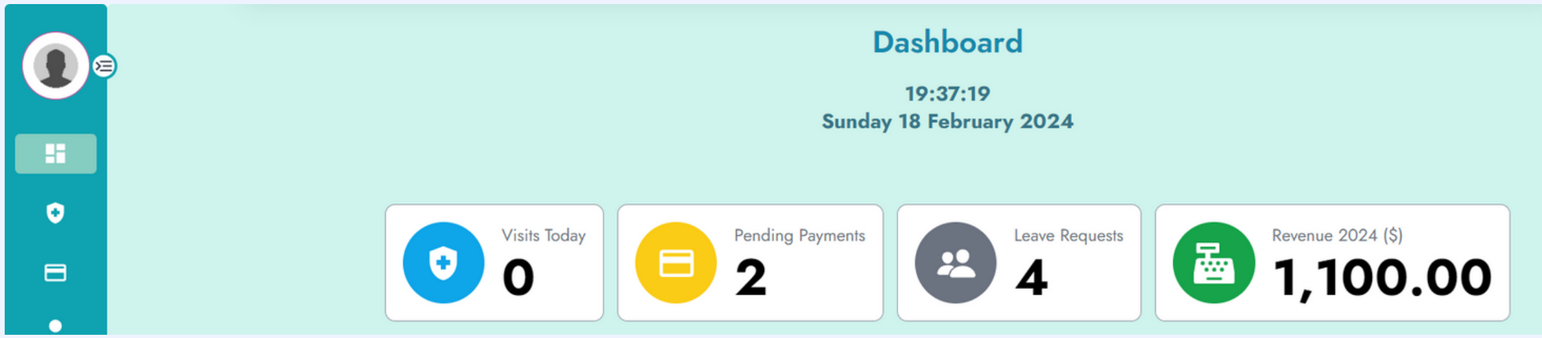
Book appointment on behalf of patients

Diego Lauricella

03 - FEATURES & USAGE

ADMIN





Leave Management

Doctor	Created At ↓	Type	From ↓	To	Status	Action
Diego Lauricella	17/02/2024 11:10	Vacation	26/02/2024	29/02/2024	Pending	Approve Decline
Diego Lauricella	17/02/2024 11:11	Leaves	28/02/2024 10:00	28/02/2024 12:30	Pending	Approve Decline
Diego Lauricella	17/02/2024 12:30	Leaves	13/02/2024 00:00	28/02/2024 00:00	Pending	Approve Decline
Diego Lauricella	17/02/2024 12:35	Leaves	06/02/2024 14:00	06/02/2024 17:00	Pending	Approve Decline

03 - FEATURES & USAGE

These are just some of the features you can explore by navigating to myclinic.tech. You can use the platform by creating a regular account as a Patient.

However, if you'd like to experience an Administrator account to also try to create a Doctor user, you can log in with the email diego.boosta@gmail.con and password ABCa123.

Enjoy your experience!

MyClinic

04 - API ENDPOINTS

www.myclinic.tech

AUTH API

Here are the available API endpoints that you can test using Postman

POST /sign-up: Sign up a new user. (For patients only)
POST /doctor/create: Sign up a new doctor. (For admin only)
POST /request-new-verification-email: Request a new verification email.
POST /user/sign-in: Sign in an existing user/admin.
POST /doctor/sign-in: Sign in an existing doctor.
POST /user/verify-password: Verify user's password.
POST /doctor/verify-password: Verify doctor's password.
POST /user/password-reset-request: Request a password reset for a user/admin.
POST /doctor/password-reset-request: Request a password reset for a doctor.
POST /user/password-reset/:token: Reset the password for a user/admin using the provided token.
POST /doctor/password-reset/:token: Reset the password for a doctor using the provided token.
POST /user/generate2FA/:id: Generate a two-factor authentication for a user/admin.
POST /doctor/generate2FA/:id: Generate a two-factor authentication for a doctor.
POST /user/verify2FA/:id: Verify a two-factor authentication for a user/admin.
POST /doctor/verify2FA/:id: Verify a two-factor authentication for a doctor.
POST /user/disable2FA/:id**: Disable two-factor authentication for a user/admin.
POST /doctor/disable2FA/:id**: Disable two-factor authentication for a doctor.

GET /sign-out: Sign out the current user.
GET /user/verify-email/:token: Verify the user's email address using the provided token.
GET /doctor/verify-email/:token: Verify the doctor's email address using the provided token.

Diego Lauricella

04 - API ENDPOINTS

PATIENT API

Here are the available API endpoints that you can test using Postman

PUT /user/update/:id: Update user/admin information.

DEL /user/delete/:id: Delete a user/admin.

GET /user/profile/:id: Get the profile of a specific user/admin.
GET /user: Get all users (For admin only)

04 - API ENDPOINTS

DOCTOR API

Here are the available API endpoints that you can test using Postman

PUT /doctor/update/:id: Update doctor's information.
PUT /doctor/:doctorId/approve/:requestId: Approve a leave request for a doctor (For admin only)
PUT /doctor/:doctorId/decline/:requestId: Decline a leave request for a doctor (For admin only)

DEL /doctor/delete/:id: Delete a doctor (For doctor and Admin)
DEL /doctor/:doctorId/leave-requests/:requestId: Delete a specific leave request.

GET /doctor/:id: Get details of a specific doctor.
GET /doctor/profile/:id: Get the profile of the authenticated doctor. (For doctor only)
GET /doctor: Get all doctors.
GET /doctor/:id/weeklyAvailability: Get the weekly availability schedule of a specific doctor.

04 - API ENDPOINTS

VISIT API

Here are the available API endpoints that you can test using Postman

POST /visit/create: Create a new visit. (For Patients and Admin only)

PUT /visit/update/:id: Update visit data.

DEL /visit/delete/:id: Delete a visit.

GET /visit: Get details of all visits. (For admin only)
GET /visit/:id: Get details of a specific visit.
GET /visit/doctor/:doctorId: Get details of visits associated with a specific doctor.
GET /visit/user/:user: Get details of visits associated with a specific user.
GET /visit/pending-payments: Get details of visits with pending payments. (For admin only)

05 - CONTACTS

This project marks the culmination of my journey in the Start2Impact's master program in Full Stack Development. It has been an immensely educational and stimulating experience, allowing me to connect with many individuals and foster a deep passion for programming.

If you have any questions, feedback, or just want to connect, feel free to reach out to me through the following channels:

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Fiverr	https://www.fiverr.com/diegoddie
Upwork	upwork.com/freelancers/~01021369935709b658