B.Sc. (Hons) in Information Technology

Assignment 2025

IT4100

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IT21231100	Sandaruwan W.M.I.M
IT21215292	Madhusanka J.A. A

Group No: WE-06

1. INTRODUCTION

1.1. Introduction

In this digitally advanced age, seeking healthcare services with ease, accuracy, and speed is the top priority. Keeping this aim in mind, our team developed Prescripto, a powerful yet user-friendly MERN stack-based doctor scheduling software. A liaison between patients and healthcare professionals, Prescripto simplifies the complex doctor handling, appointment scheduling, and patient record keeping tasks. Our website not only offers a simple-to-use interface but also ensures secure access and smooth interaction for both administrators and regular users.

Given the high-stakes context of healthcare systems, thorough software testing was imperative to ensure the precision and dependability of all functionality. Testing strategy incorporated both manual and automated testing, and Cypress was utilized for end-to-end automated testing. Testing efforts were focused on ensuring primary user flows essential to operational success and user satisfaction.

This report describes the purpose, extent, equipment, methodologies, and findings of the testing process conducted for Prescripto. The functionalities specifically tested are: user sign-up, user login, profile edit, and admin panel access for doctor management.

1.2. Overview of the web application developed

Prescripto is a web application built end-to-end with the MERN stack (Node.js, React.js, MongoDB). Prescripto enables patients to:

- Register and sign up for secure user accounts.
- Log in to see personalized health information.

For doctors and administrators, Prescripto has:

- A secure admin panel for managing doctors.
- Add new doctor functionality with required information (e.g., years of experience, role, contact).

1.3. Purpose and scope of testing

The key objective of testing Prescripto was to verify the primary functionalities of the app and ensure that all primary features behave as expected under real-world usage. Testing aimed to find bugs, UI/UX issues, and logic faults prior to launching the product.

The domain of testing encompassed the following major domains:

- User registration (Sign-up): Verification that users can register with proper validation and error control.
- User login: Validating authentication procedure using valid and invalid credentials.
- Profile management: add doctor records securely and effectively.
- Admin panel functionality: Verifying admin login

1.4. Test Plan

A thorough test plan was documented before beginning the testing cycle. Included were:

- Test Scenarios: Primary functional components based on user roles (admin and user).
- Test Cases: Separate user actions and corresponding expected results.
- Test Data: Valid and invalid inputs for all forms and functions.
- Execution Plan: Testing each function in a step-by-step manner using Cypress with scripted scripts.
- Reporting and Debugging: Logging bugs and errors, fixing prioritized ones, and repeating tests.

Test plan was performed in two stages:

- Manual testing: For UI response, user flows, and exploratory testing.
- Automated testing: For core functional verification using Cypress.

1.5. Objectives of testing.

The primary testing objectives of Prescripto were:

- Functional Accuracy: Confirm that every user story and feature was well-defined and worked as intended.
- Security Validation: Ensure that actions with sensitive data, like login, registration, and data updates, were handled correctly.
- Data Integrity: Confirm data consistency, especially for actions such as doctor profile management.
- User Experience: Discover any UI or UX bottlenecks that might hinder accessibility or usability.
- Regression Stability: Ensure new changes or fixes do not break functionality.

Such ambitions aligned with our overall mission to offer a reliable and high-performance healthcare booking platform.

1.6. Testing methodologies used (manual and automated)

Testing was conducted using a combination of manual and automation testing approaches to get maximum coverage.

Manual Testing

- Exploratory Testing: Used for discovering UI responsiveness, button clickability, form behavior, and layout issues.
- Boundary Testing: Tested validation behavior on boundary values like long names, empty passwords, etc.
- Cross-browser Testing: Conducted manually to verify compatibility with Chrome and Firefox.

Automated Testing (Cypress)

- End-to-End Testing (E2E): Simulated real user interactions with Cypress to test all core feature flows.
- Integration Testing: Ensured multiple components (e.g., login and profile update) worked together correctly.
- Negative Testing: Supplied invalid credentials to verify proper error messages and access denials.

All Cypress tests simulated actual user interactions and asserted DOM states, button clicks, redirects, and success messages.

1.7. Tools and technologies used

Here is the list of development and testing tools and technologies utilized:

Development Stack

- MongoDB: Database where the users, doctors, and appointments are stored.
- React.js: Front-end library to develop interactive UI components.

- Node.js: Server environment to run backend logic.

Testing Tools

- Cypress: JavaScript E2E testing framework to run automated tests.
- Postman: To manually test backend APIs.
- GitHub: To utilize for version control and collaborative development.
- Visual Studio Code: Code editor with native debugging and linting capabilities.
- Chrome Developer Tools: Used during manual UI testing for live debugging.

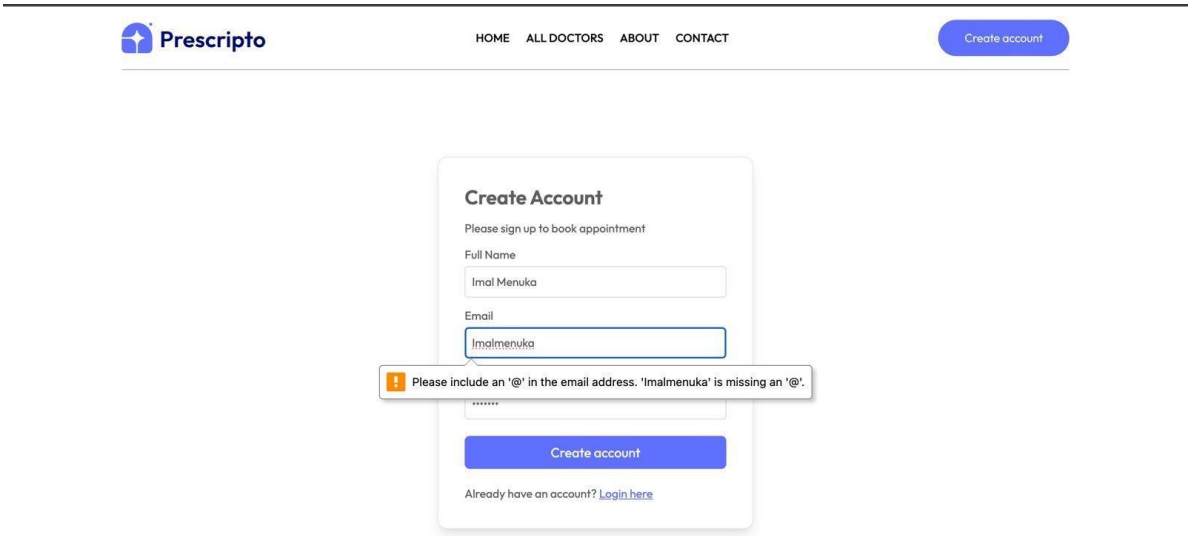
2. Manual Testing Documentation

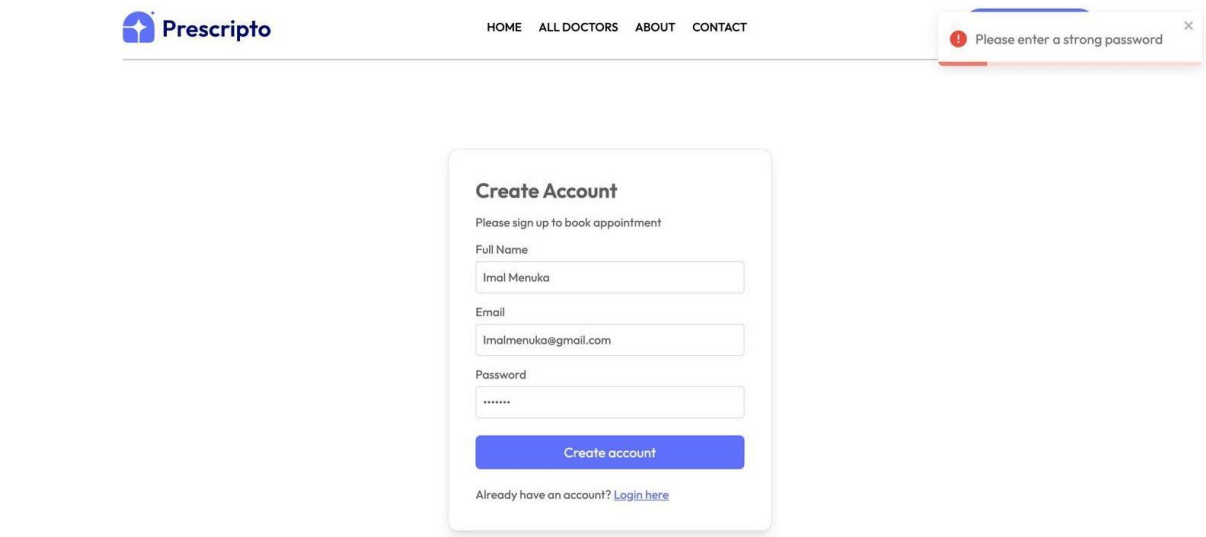
I. Signup to the Account (IT21231100-Sandaruwan W.M.I.M)

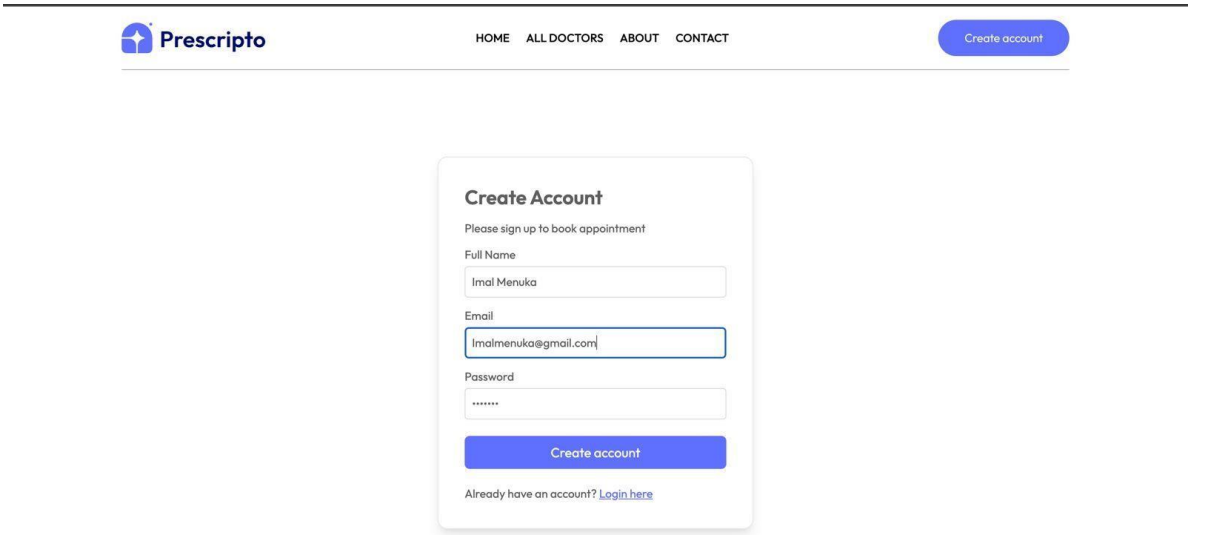
Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Status
TC_01	View Signup Page UI Elements	Navigate to the signup page	Full Name, Email, Password fields and "Create account" button should be visible	As expected,	Pass
TC_02	Successful Account Creation	Enter valid Full Name, Email, and Password, then click "Create account"	Account should be created and user redirected to login/dashboard page	As expected,	Pass
TC_03	Empty Field Validation	Leave any of the fields empty and click "Create account"	Validation message should be shown for empty required fields	As expected,	Pass
TC_04	Email Format Validation	Enter an invalid email (e.g., "abc@com")	Validation error should be shown	As expected,	Pass
TC_05	Password Masking	Type a password	Characters should be masked (e.g., •••••••)	As expected,	Pass
TC_06	Duplicate Email Handling	Try to register with an already used email	System should block and show an error like "Email already in use"	Error not shown	Fail
TC_07	Password Strength Check	Enter weak password (e.g., "123")	System should show warning or prevent submission	No validation	Fail
TC_08	UI Responsiveness	Open the form on mobile or resize browser	Form layout should adapt properly	Slight misalignment	Partial Pass

TC_09	Navigation to Login	Click the "Login here" link	User should be redirected to the login page	As expected,	Pass
TC_10	Create Button Disabled Check	Check if button is disabled when required fields are empty	Button should be disabled	Button is clickable	Fail

Screenshots of manual test executions.




Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Please enter a strong password
Create Account
Please sign up to book appointment
Full Name
Imal Menuka
Email
Imalmenuka@gmail.com
Password
Create account
Already have an account? Login here

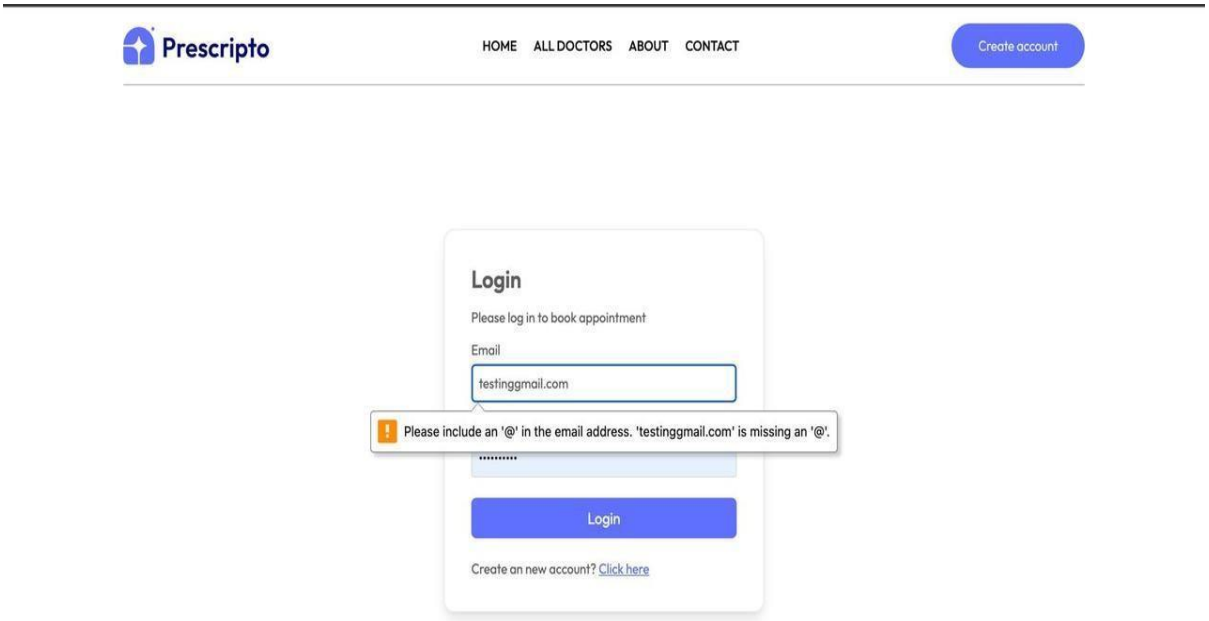

Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Create Account
Please sign up to book appointment
Full Name
Imal Menuka
Email
Imalmenuka@gmail.com
Password
Create account
Already have an account? Login here

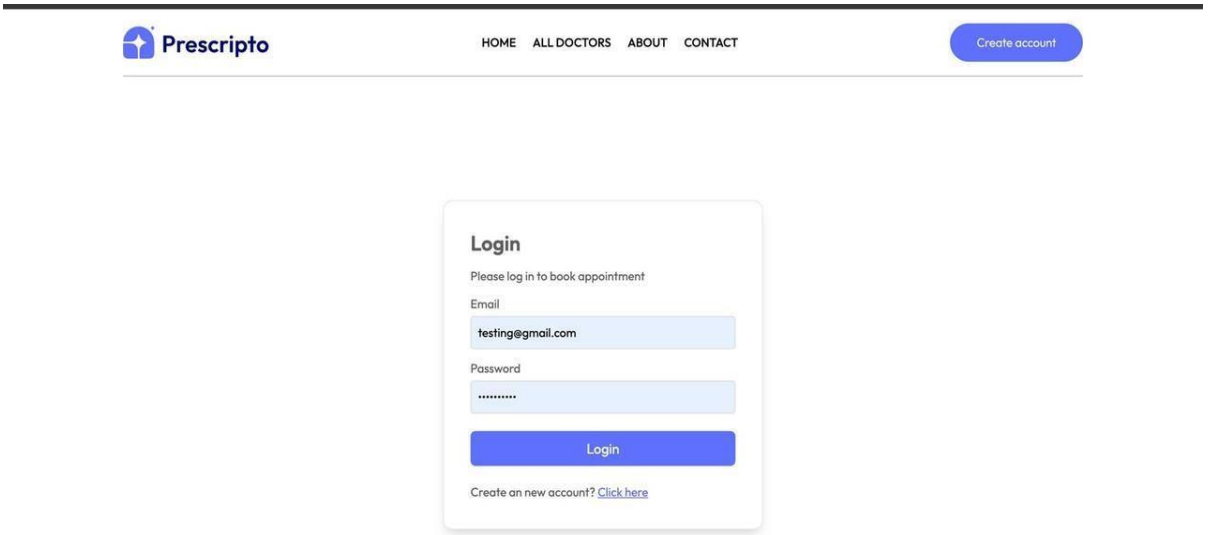
II. Loging to the Website (IT21215292- Madhusanka J.A.A)

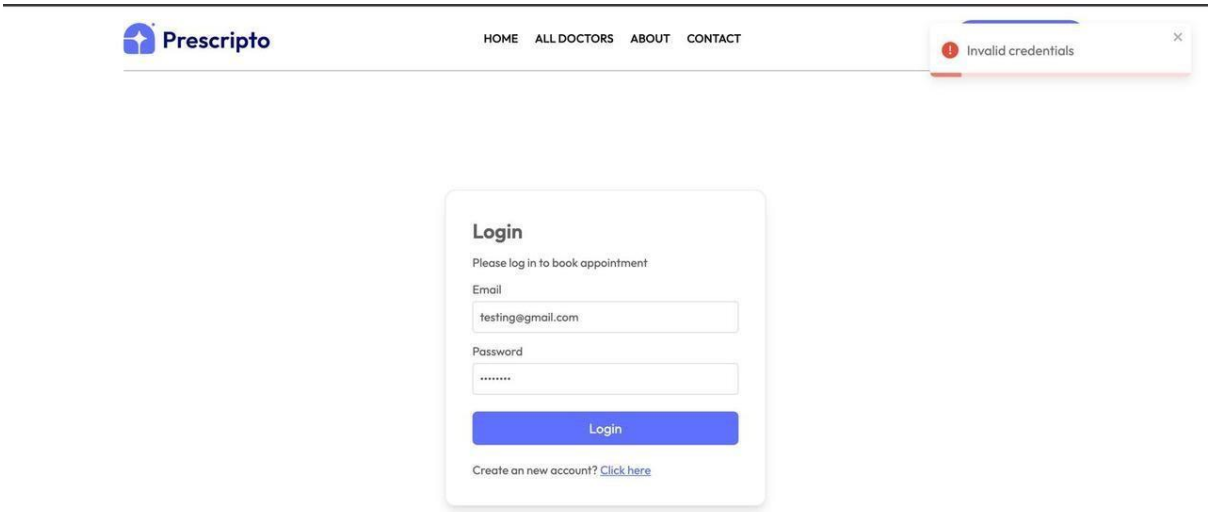
Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Status
TC_01	View Login Page UI Elements	Navigate to the login page	Username/email and password fields, login button, and "forgot password" visible	As expected,	Pass
TC_02	Valid Login	Enter valid credentials and click "Login"	User should be redirected to the dashboard/home page	As expected,	Pass
TC_03	Invalid Login	Enter invalid credentials and click "Login"	Error message should be shown	As expected,	Pass
TC_04	Empty Fields Submission	Leave username/email and/or password empty and click "Login"	Validation message should appear for required fields	As expected,	Pass
TC_05	Password Field Masking	Observe characters while typing in the password field	Characters should be masked (e.g., shown as …)	As expected,	Pass
TC_06	Forgot Password Link	Click the "Forgot Password" link	User should be redirected to password recovery/reset page	As expected,	Pass
TC_07	Login Button Disabled State	Keep fields empty and check the login button	Login button should be disabled until fields are filled	Login button clickable	Fail
TC_08	Case Sensitivity	Enter username/email with different case variation	System should treat input as case-insensitive (for email)	As expected,	Pass
TC_09	SQL Injection Attempt	Enter SQL code in input fields (e.g., ' OR 1=1--)	System should sanitize input and show error	Input accepted	Fail

TC_10	UI Responsiveness	Resize browser window or open on mobile device	Login page should be responsive without layout breaking	Minor UI misalignment	Partial Pass

Screenshots of manual test executions.

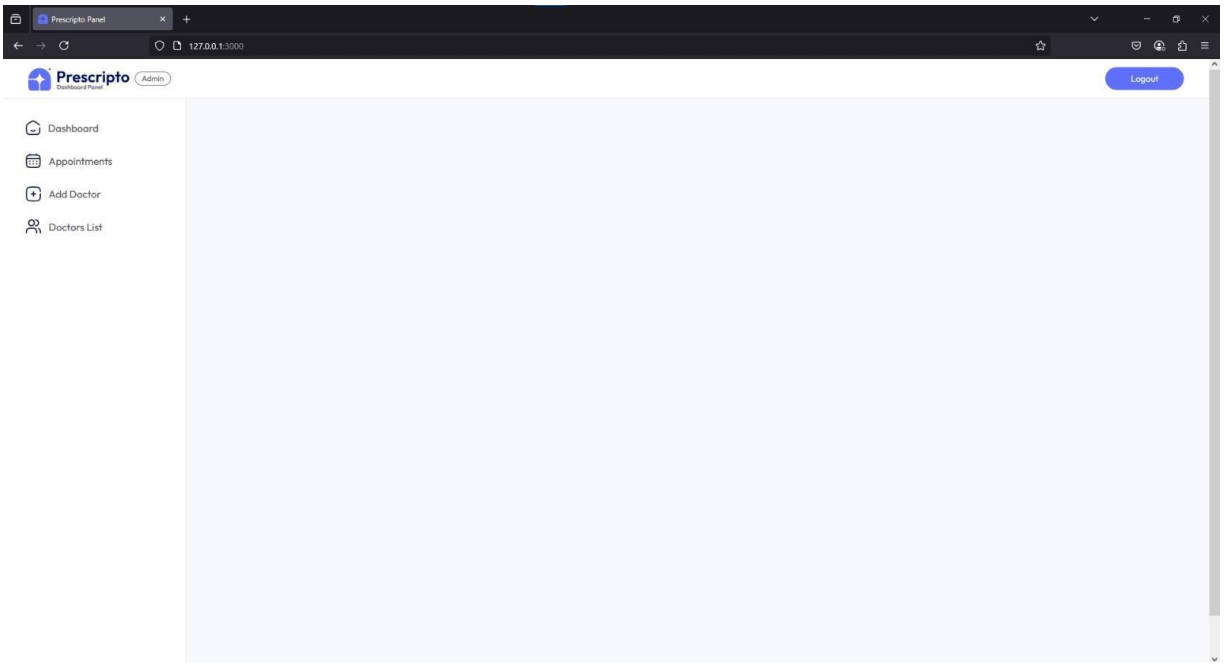



Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Login
Please log in to book appointment
Email
testing@gmail.com
Password
Login
Create an new account? Click here


Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Invalid credentials
Login
Please log in to book appointment
Email
testing@gmail.com
Password
Login
Create an new account? Click here

III. Add doctor records (IT21225024-Bhagya P.S)

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Status
TC01	Add doctor with valid inputs	1. Fill all fields with valid data 2. Click "Add doctor"	Doctor added successfully and form resets	Doctor added and form cleared	Pass
TC02	Submit empty form	1. Leave all fields blank 2. Click "Add doctor"	Validation messages shown for required fields	Validation shown for required inputs	Pass
TC03	Invalid email format	1. Enter "invalid email" 2. Fill other fields 3. Click "Add doctor"	Show error for invalid email format	Email validation error displayed	Pass
TC04	Experience dropdown behavior	1. Open Experience dropdown 2. Select "1 Year"	"1 Year" selected and retained on submit	Value selected and retained	Pass
TC05	Password input behavior	1. Enter a password in the field	Password should be hidden with dots/bullets	Password masked correctly	Pass
TC06	UI layout and responsiveness	1. Open the form on different devices/resolutions	Form should adapt and be readable on all sizes	Responsive and correctly aligned	Pass
TC07	Special characters in text fields	1. Enter "@@@@@" in Name and Degree fields 2. Submit form	Should either sanitize input or allow if valid	Accepted and stored correctly	Pass
TC08	Submit long string in "About Doctor"	1. Paste 500-character text in About Doctor 2. Submit form	Form should handle it without crash	Handled long input smoothly	Pass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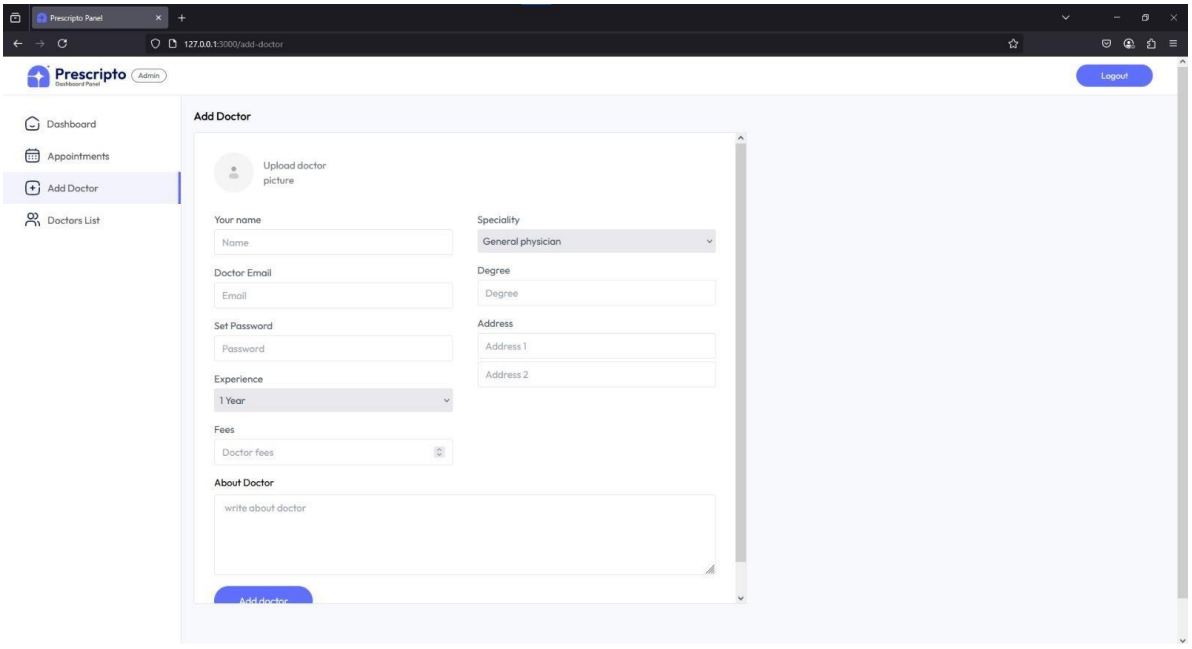
Prescripto
Admin
Logout
Dashboard
Appointments
Add Doctor
Doctors List


Prescripto Panel
127.0.0.1:3000/add-doctor
Prescripto
Admin
Logout
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Upload doctor picture
Your name
Name
Doctor Email
Email
Set Password
Password
Experience
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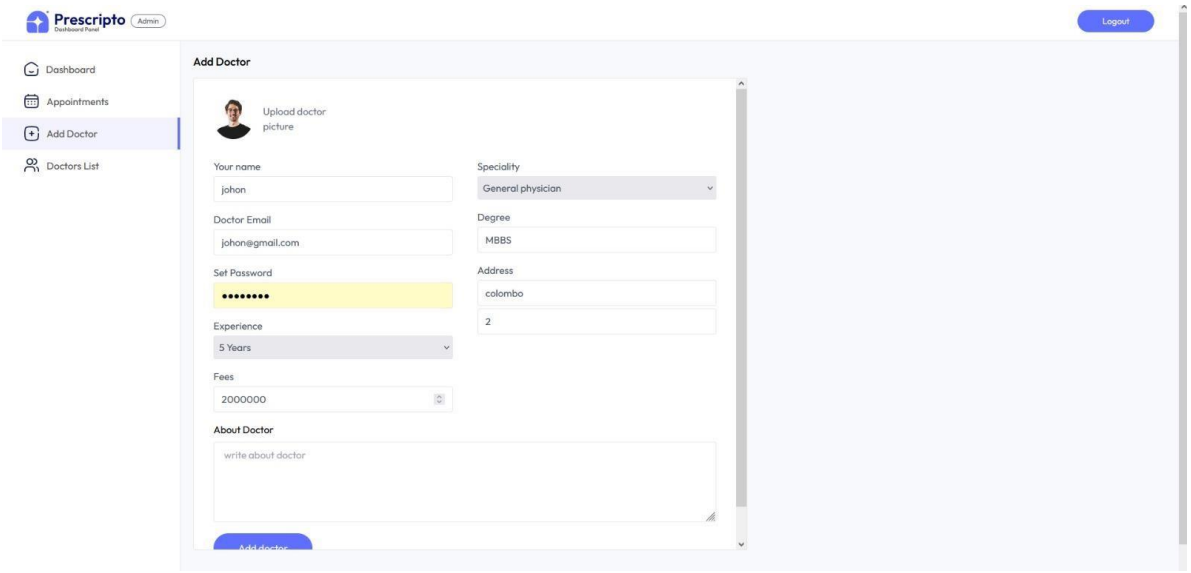
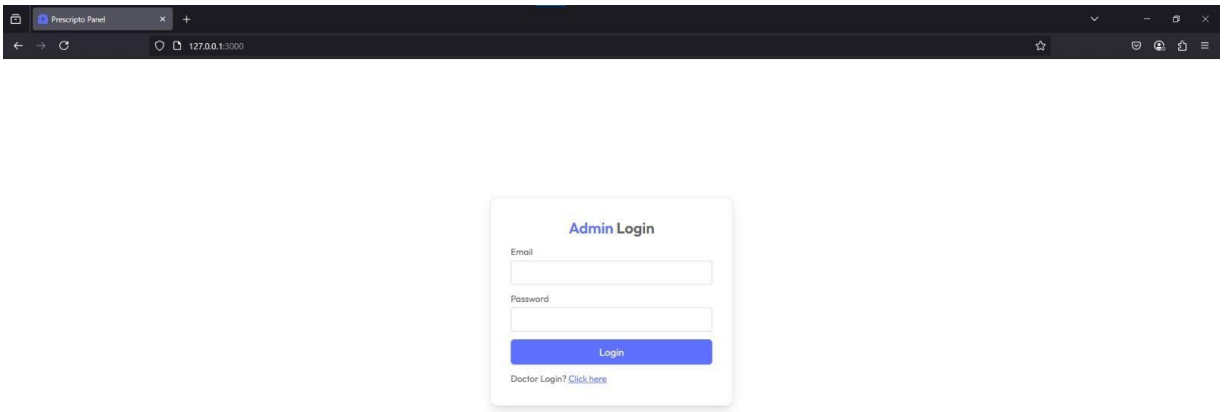
Fees
Doctor fees
Speciality
General physician
Degree
Degree
Address
Address 1
Address 2
About Doctor
write about doctor
Add doctor

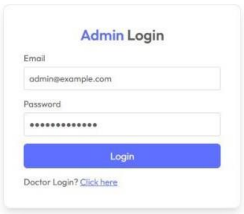

Prescripto
Admin
Logout
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Upload doctor picture
Your name
johon
Speciality
General physician
Doctor Email
johon@gmail.com
Degree
MBBS
Set Password
Address
colombo
2
Experience
5 Years
Fees
2000000
About Doctor
write about doctor
Add doctor

IV. Admin panel Loging and booking doctor (IT21228094-Mendis A.R.P)

V. Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Status
TC01	Login with valid credentials	1. Enter valid email 2. Enter correct password 3. Click "Login"	User should be redirected to admin dashboard	User successfully logged in and redirected	Pass
TC02	Login with invalid password	1. Enter valid email 2. Enter wrong password 3. Click "Login"	Error message like "Invalid credentials"	Error message displayed	Pass
TC03	Login with empty fields	1. Leave email and password empty 2. Click "Login"	Show required field validation	Validation messages shown for both fields	Pass
TC04	Navigation to Doctor Login	1. Click “Click here” link for Doctor Login	Redirected to Doctor login page	Redirect successful	Pass
TC05	Email input accepts invalid format	1. Enter `admin@` in email field 2. Click "Login"	Validation error shown	Error shown: "Enter valid email"	Pass
TC06	Attempt SQL injection	1. Enter `admin@example.com` 2. Enter `' OR '1'='1` as password 3. Click Login	Login fails, input sanitized	Login failed, no security issue	Pass
TC07	UI Layout Check	Open page on mobile, tablet, desktop	Elements should be properly aligned and responsive	UI displays correctly on all sizes	Pass
TC08	Excessively long input	Enter 300-character email and password	Input should be restricted or handled gracefully	Input fields limit characters, no crash	Pass

Table of login


Prescripto Panel
127.0.0.1:3000
Admin Login
Email
Password
Login
Doctor Login? Click here


Admin Login
Email
admin@example.com
Password
Login
Doctor Login? Click here

3. Automated Testing Documentation

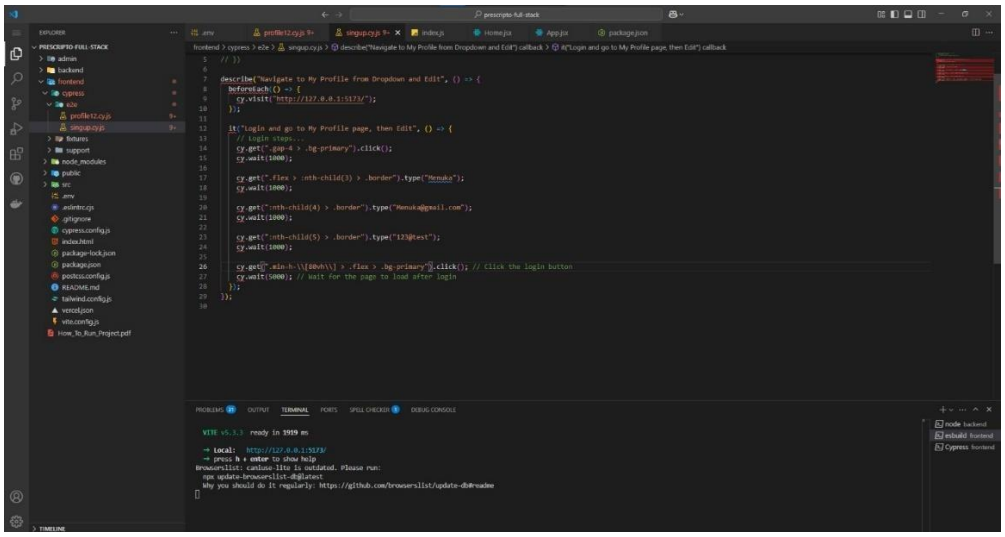
3.1. Selected Automation Tool and Rationale for Selection

We selected Cypress as our primary end-to-end testing tool for automated testing of the Prescripto doctor booking system. Cypress is a modern, JavaScript-based web application test automation tool. With Cypress, developers and QA engineers can write and execute stable, fast, and maintainable test scripts that mimic real users within the browser.

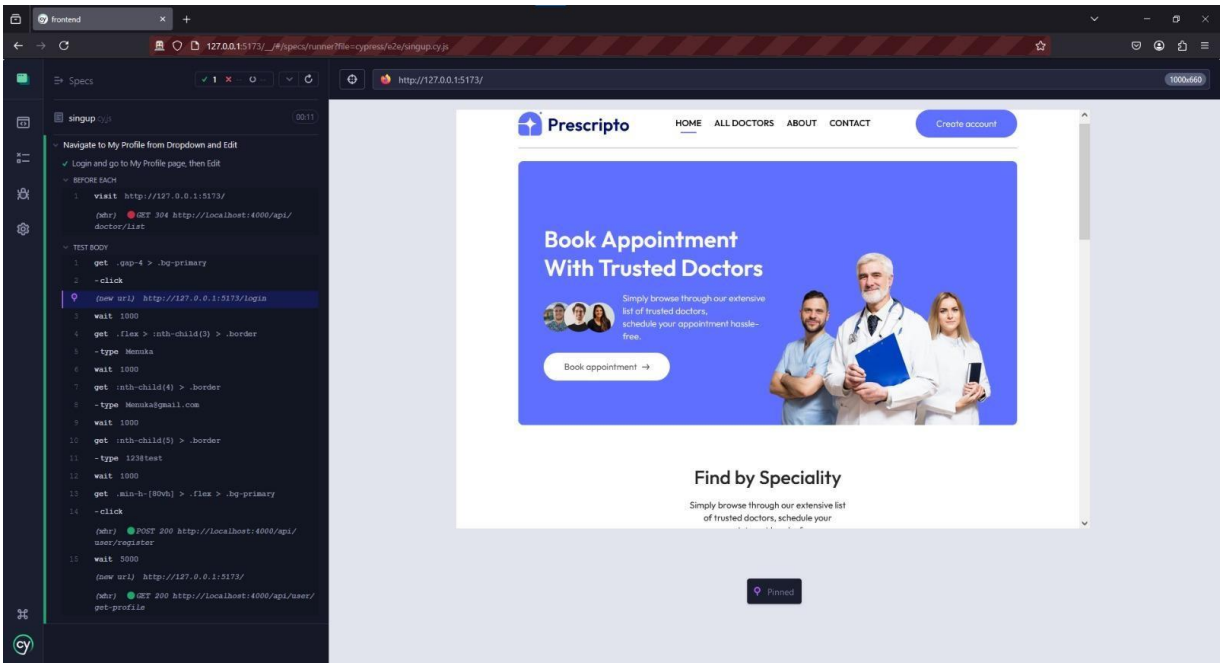
- Seamless Integration with JavaScript and React
- Real-Time Browser Execution
- Powerful Debugging Features
- Automatic Waiting in Flake-Free Tests
- Integrated Test Runner and Dashboard
- Easy Setup and Configuration

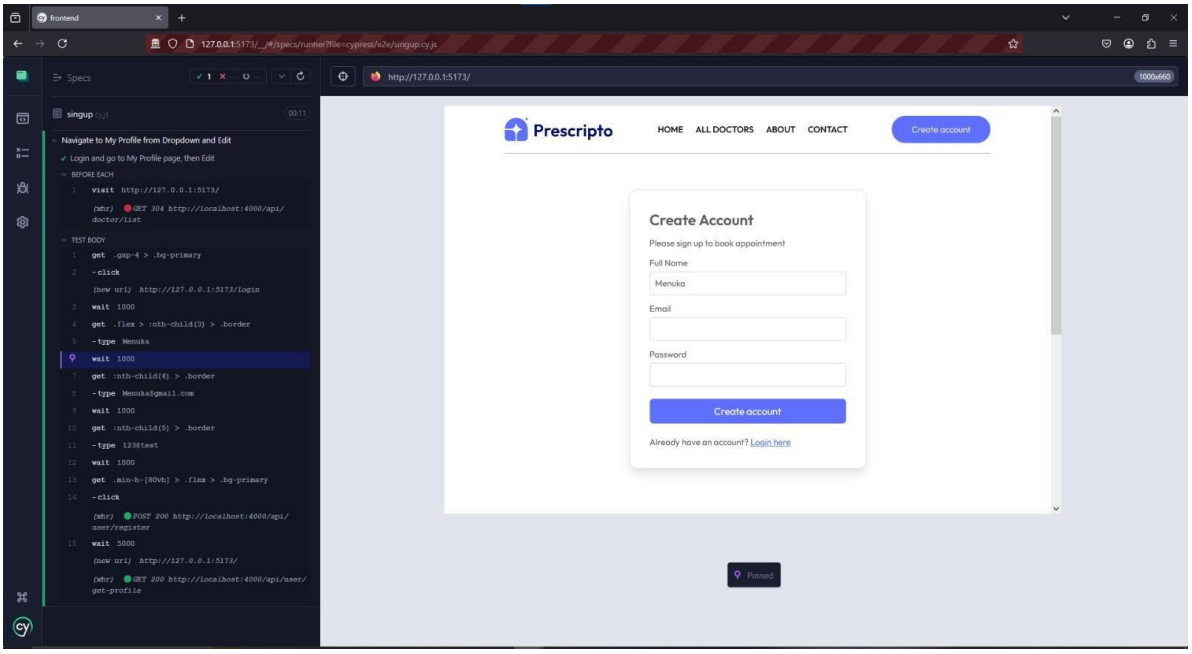
Signup to the Account (IT21231100-Sandaruwan W.M.I.M)

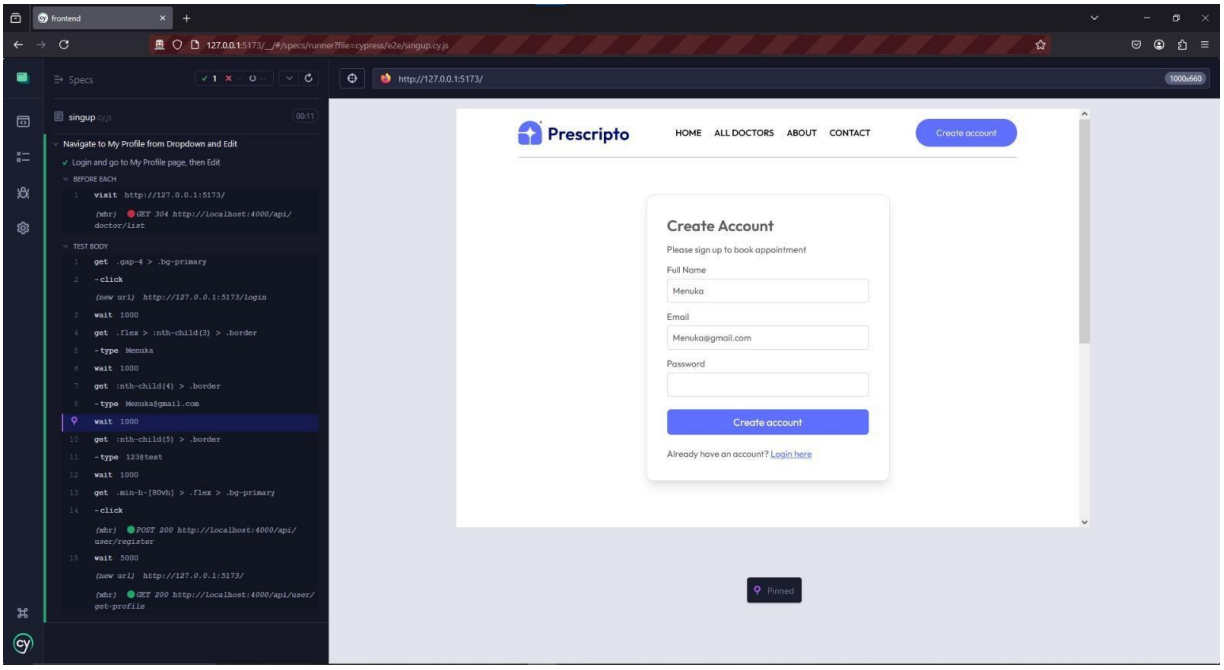
Automated test cases with scripts.

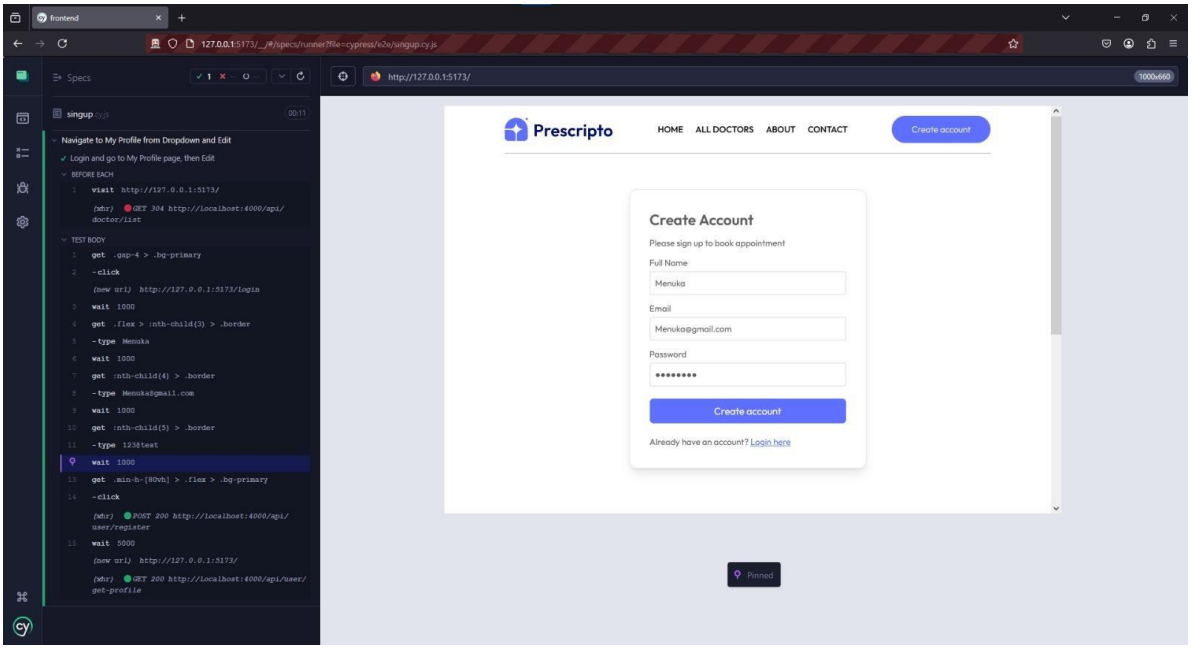


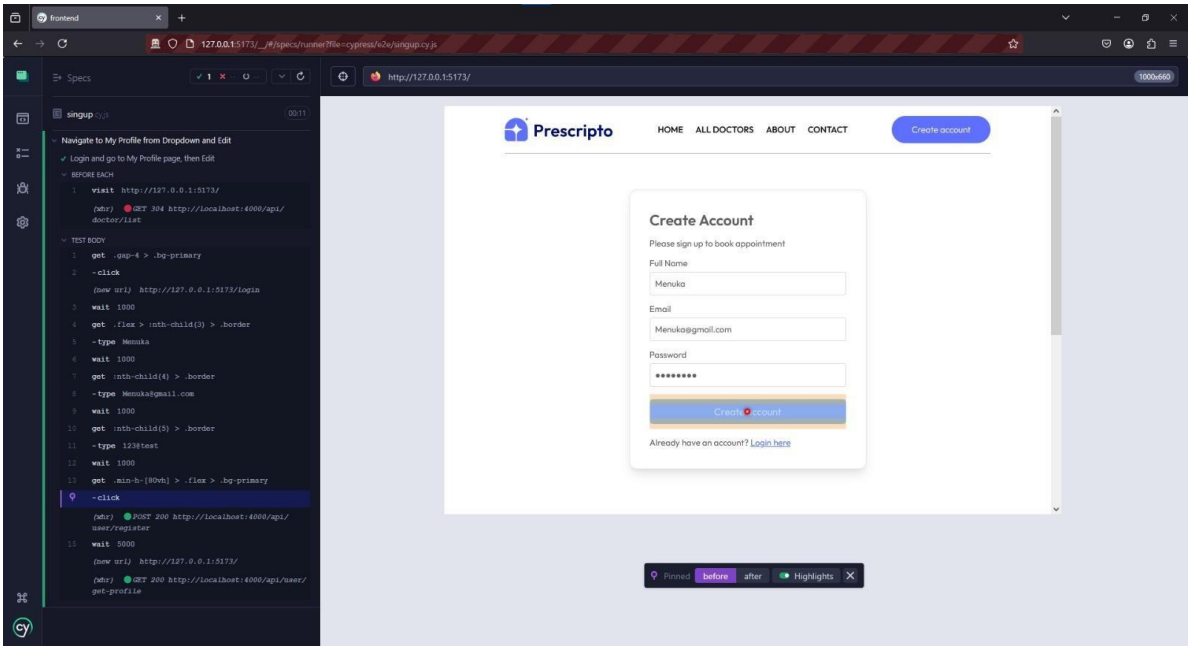
Test execution results with screenshots.





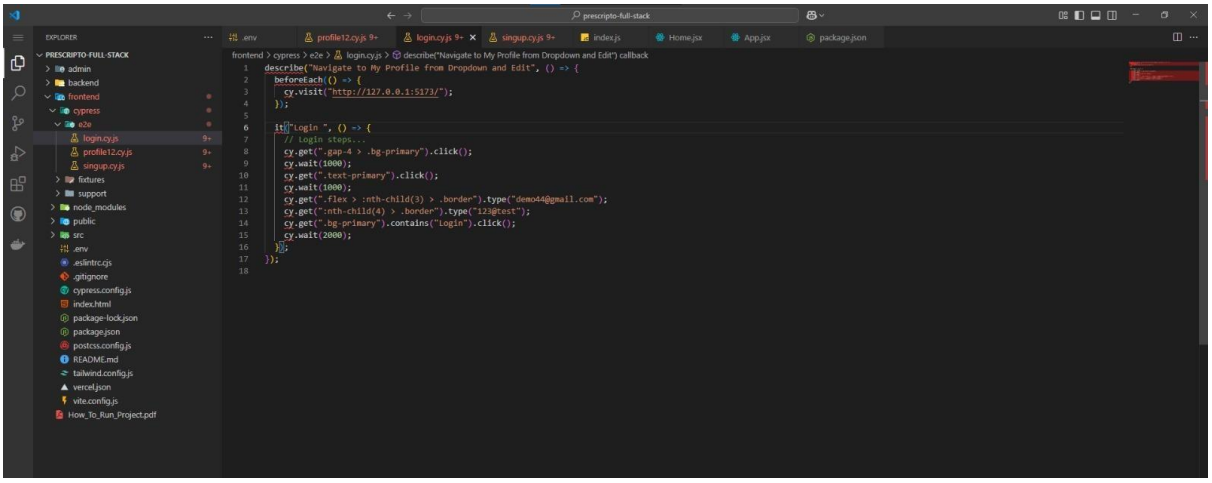

frontend
127.0.0.1:5173/__/#/specs/runner?file=cypress/e2e/singup.cy.js
Specs
singup
Navigate to My Profile from Dropdown and Edit
Login and go to My Profile page, then Edit
BEFORE EACH
visit http://127.0.0.1:5173/
TEST BODY
http://127.0.0.1:5173/
1000x660
Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Create Account
Please sign up to book appointment
Full Name
Menuka
Email
Menuka@gmail.com
Password
Create account
Already have an account? Login here
Pinned


frontend
127.0.0.1:5173/__/#/specs/runner?file=cypress/e2e/singup.cy.js
Specs
singup
Navigate to My Profile from Dropdown and Edit
Login and go to My Profile page, then Edit
BEFORE EACH
visit http://127.0.0.1:5173/
TEST BODY
http://127.0.0.1:5173/
1000x660
Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Create Account
Please sign up to book appointment
Full Name
Menuka
Email
Menuka@gmail.com
Password
Create account
Already have an account? Login here
Pinned

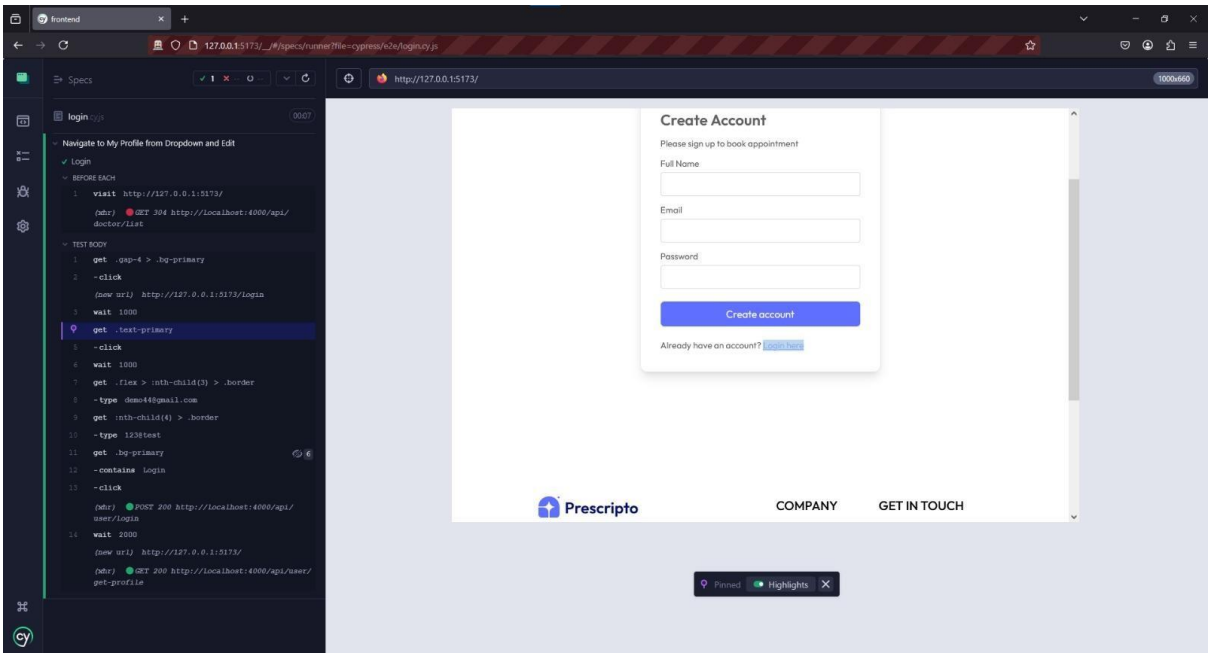

frontend
127.0.0.1:5173/__/#/specs/runner?file=cypress/e2e/singup.cy.js
Specs
singup
Navigate to My Profile from Dropdown and Edit
Login and go to My Profile page, then Edit
BEFORE EACH
visit http://127.0.0.1:5173/
(xhr) GET 304 http://localhost:4000/api/doctor/list
TEST BODY
get .gap-4 > .bg-primary
-click
(new url) http://127.0.0.1:5173/login
wait 1000
get .flex > :nth-child(3) > .border
-type Menuka
wait 1000
get :nth-child(4) > .border
-type Menuka@gmail.com
wait 1000
get :nth-child(5) > .border
-type 123@test
wait 1000
get .min-h-[80vh] > .flex > .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/user/register
wait 5000
(new url) http://127.0.0.1:5173/
(xhr) GET 200 http://localhost:4000/api/user/get-profile
http://127.0.0.1:5173/
1000x660
Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Create Account
Please sign up to book appointment
Full Name
Menuka
Email
Menuka@gmail.com
Password
Already have an account? Login here
Pinned
before
after
Highlights

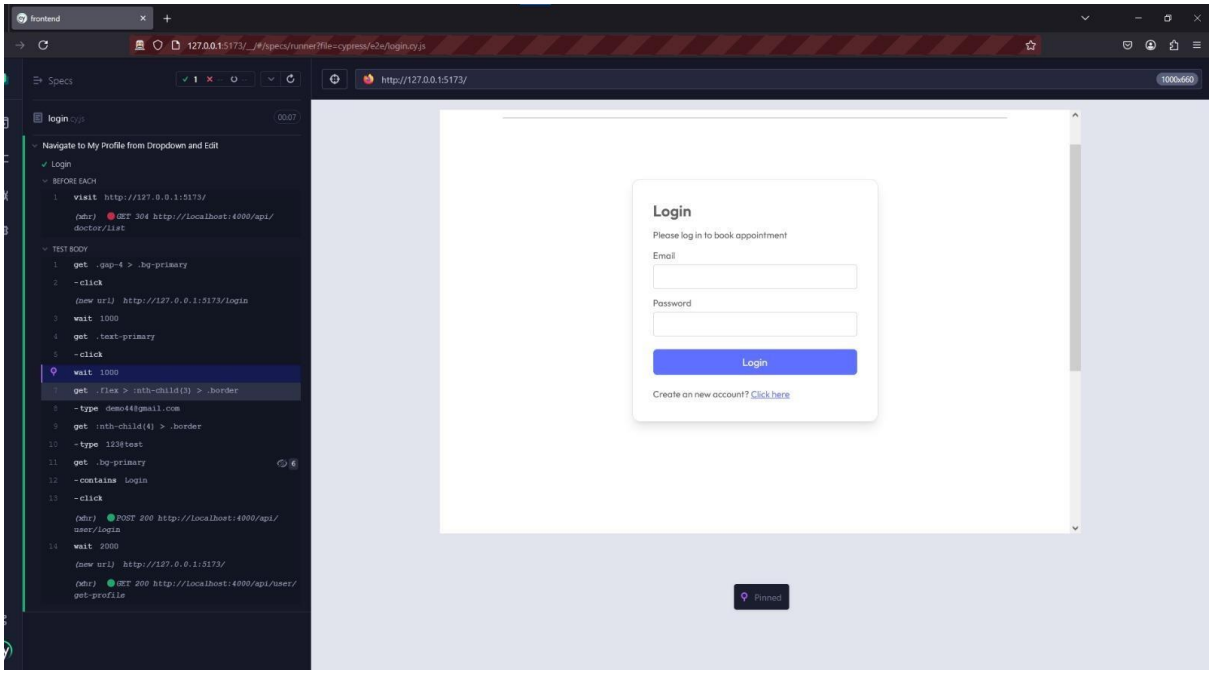
Loging to the Website (IT21215292- Madhusanka J.A.A)

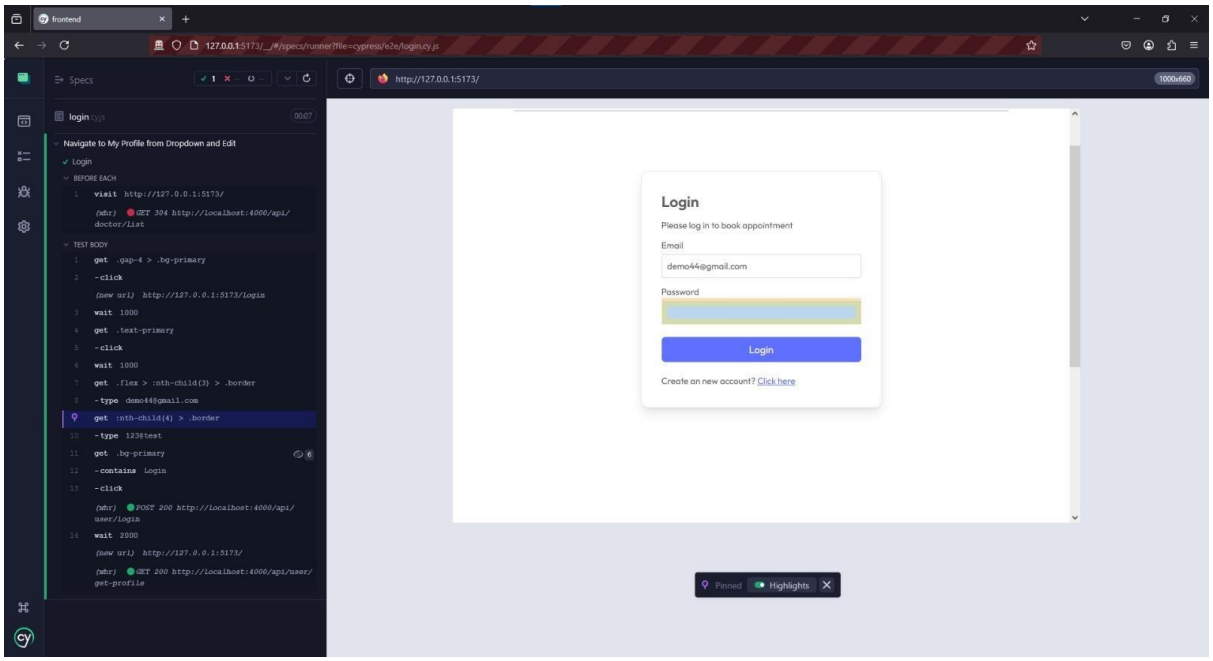
Automated test cases with scripts.

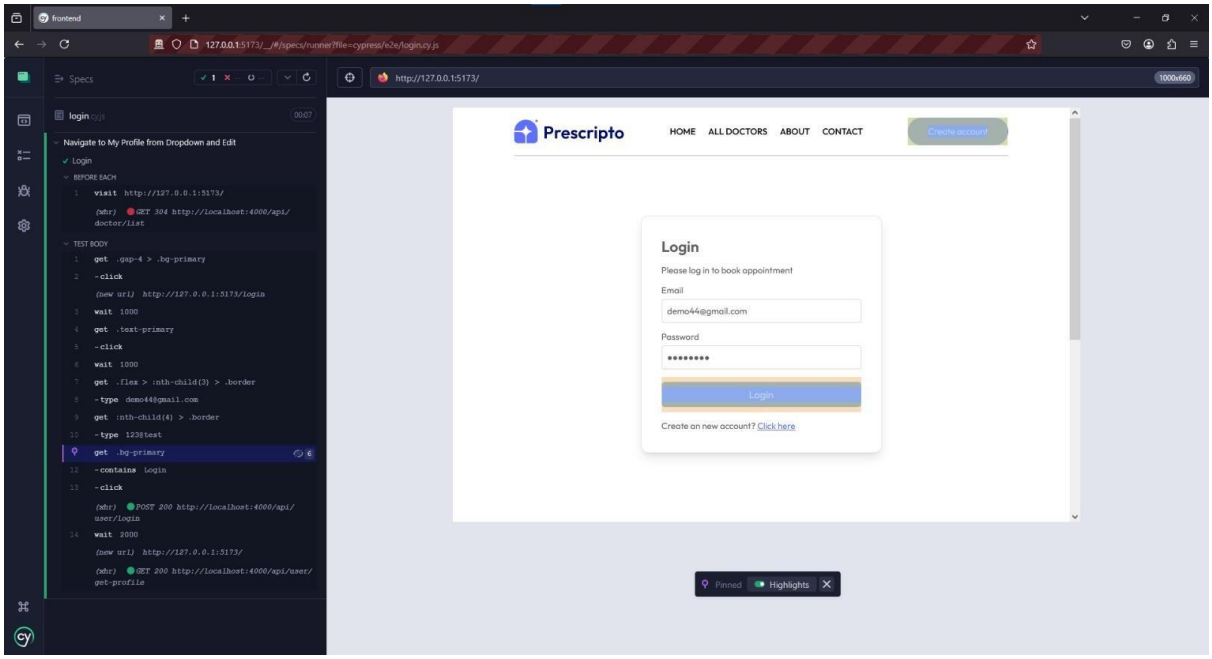


Test execution results with screenshots.



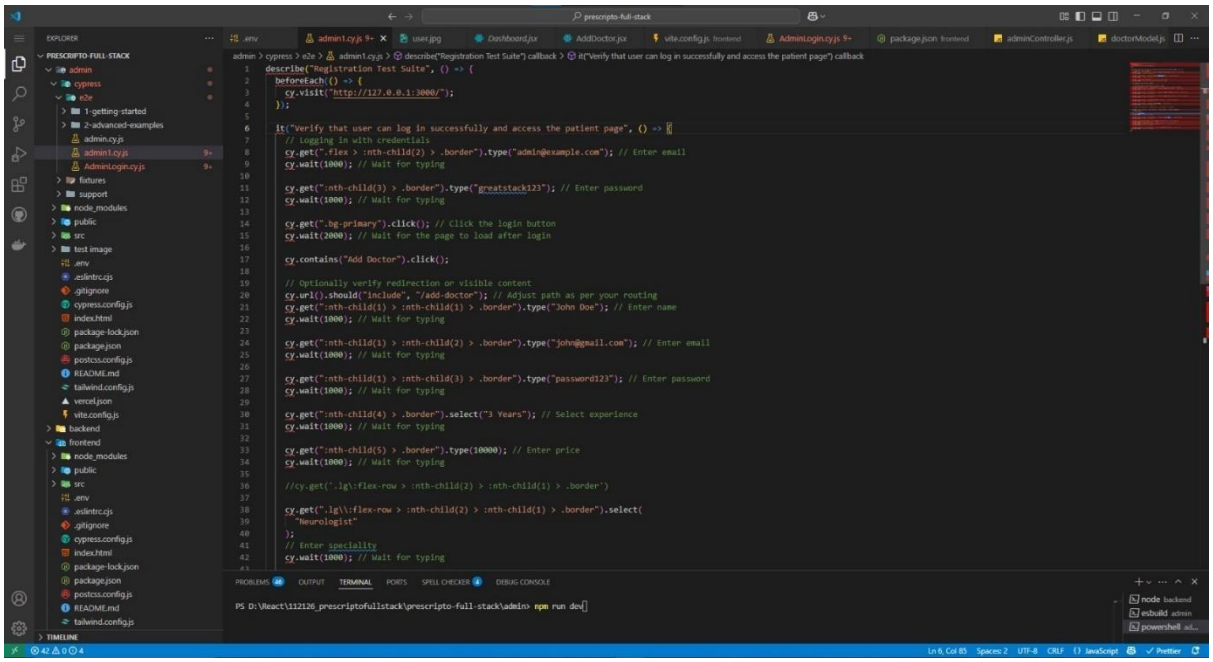

frontend
Specs
login.cy.js
Navigate to My Profile from Dropdown and Edit
Login
BEFORE EACH
visit http://127.0.0.1:5173/
TEST BODY
Login
Please log in to book appointment
Email
Password
Login
Create an new account? Click here
Pinned


frontend
Specs
login.cy.js
Navigate to My Profile from Dropdown and Edit
Login
BEFORE EACH
visit http://127.0.0.1:5173/
TEST BODY
Login
Please log in to book appointment
Email
demo44@gmail.com
Password
Login
Create an new account? Click here
Pinned
Highlights

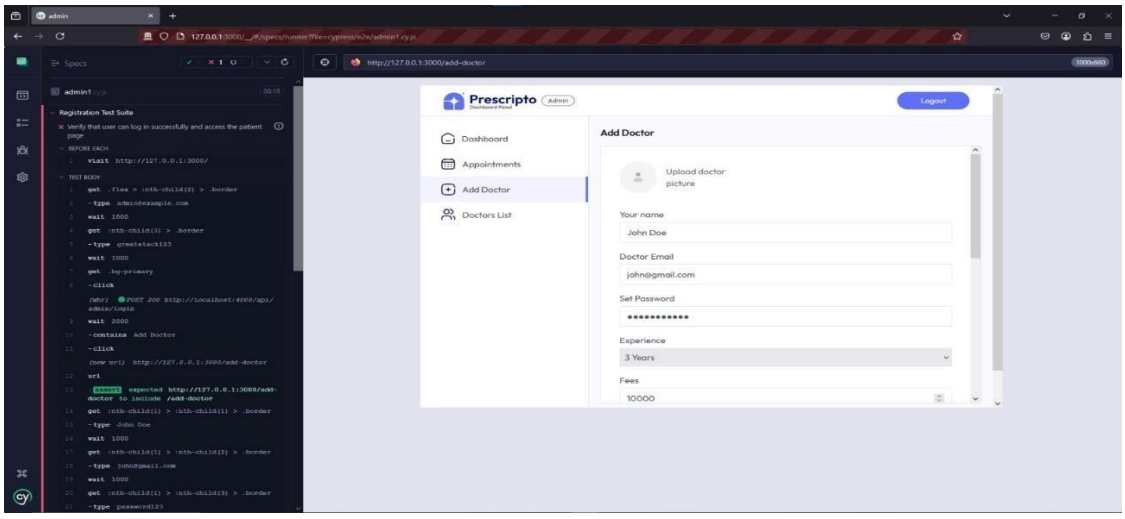

frontend
Specs
login.cy.js
Navigate to My Profile from Dropdown and Edit
Login
BEFORE EACH
TEST BODY
http://127.0.0.1:5173/
Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Login
Please log in to book appointment
Email
demo44@gmail.com
Password
Login
Create an new account? Click here
Pinned
Highlights

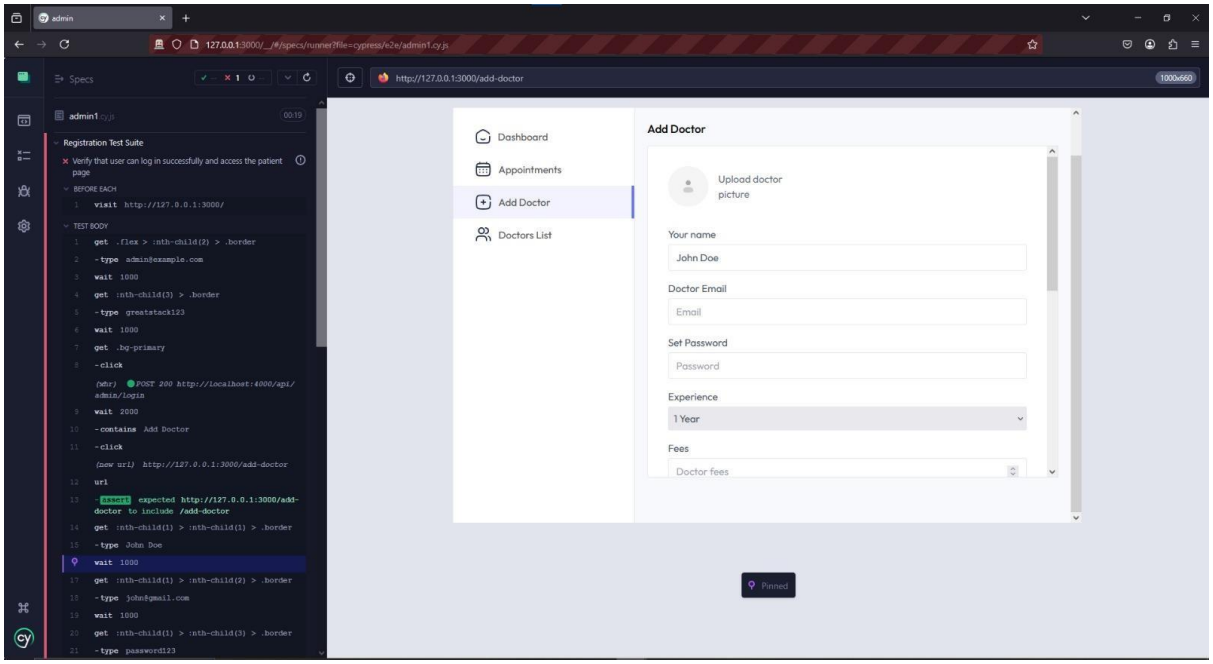
Add doctor records (IT21225024-Bhagya P.S)

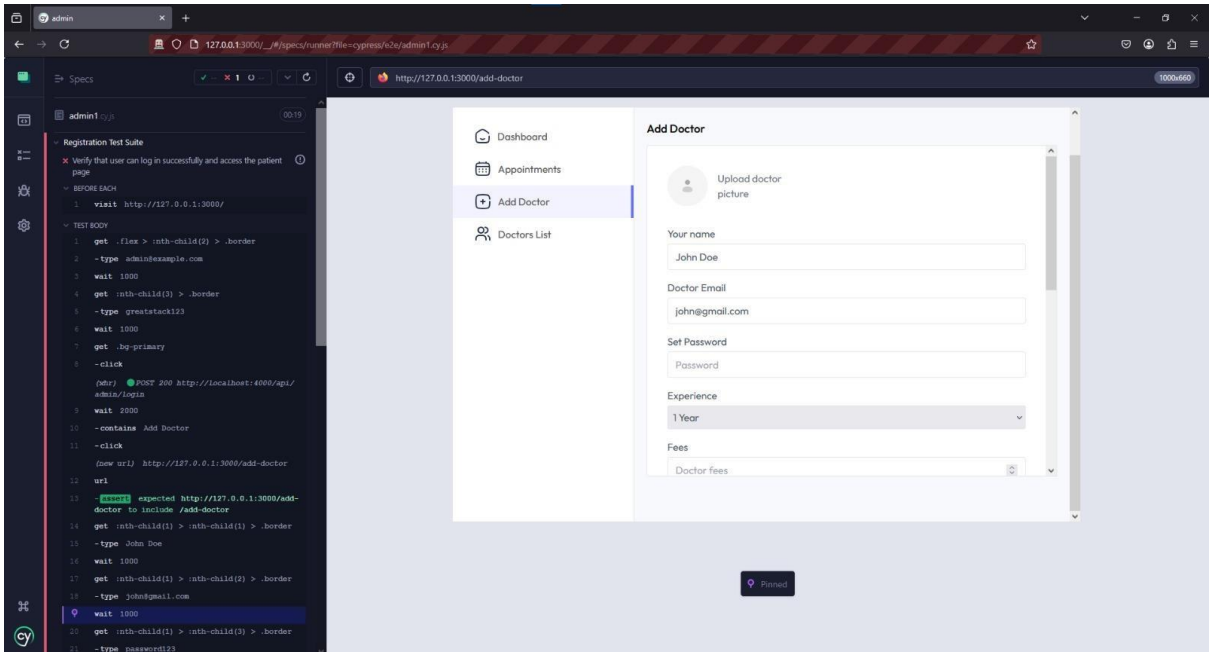
Automated test cases with scripts.

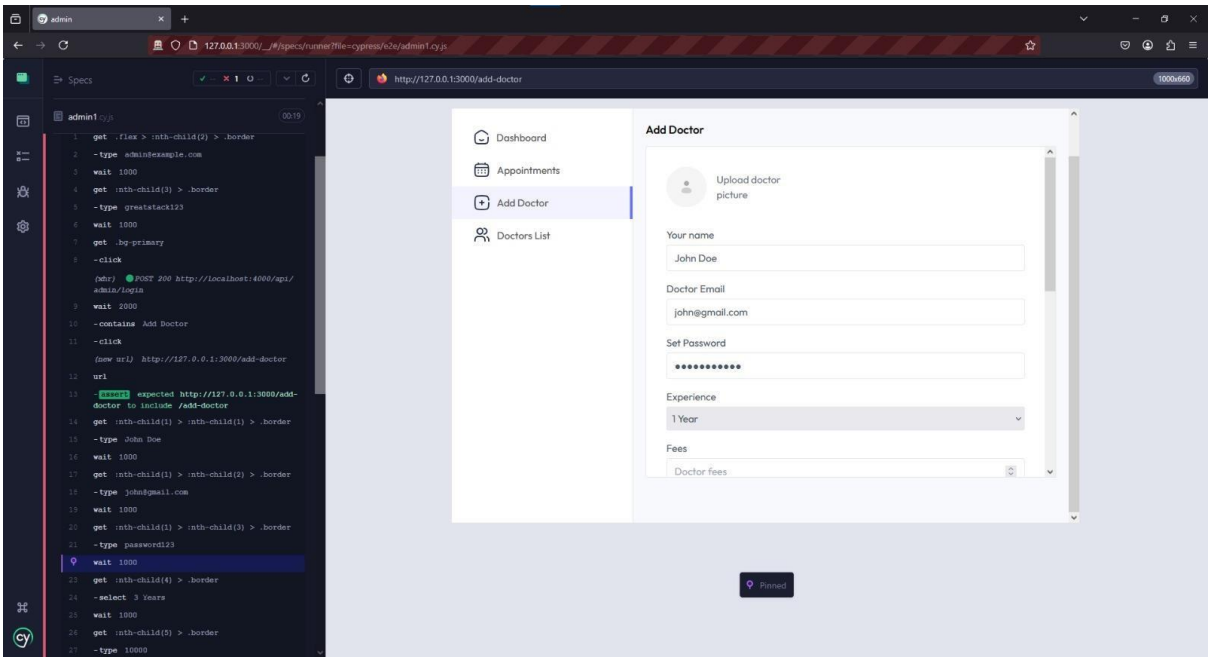


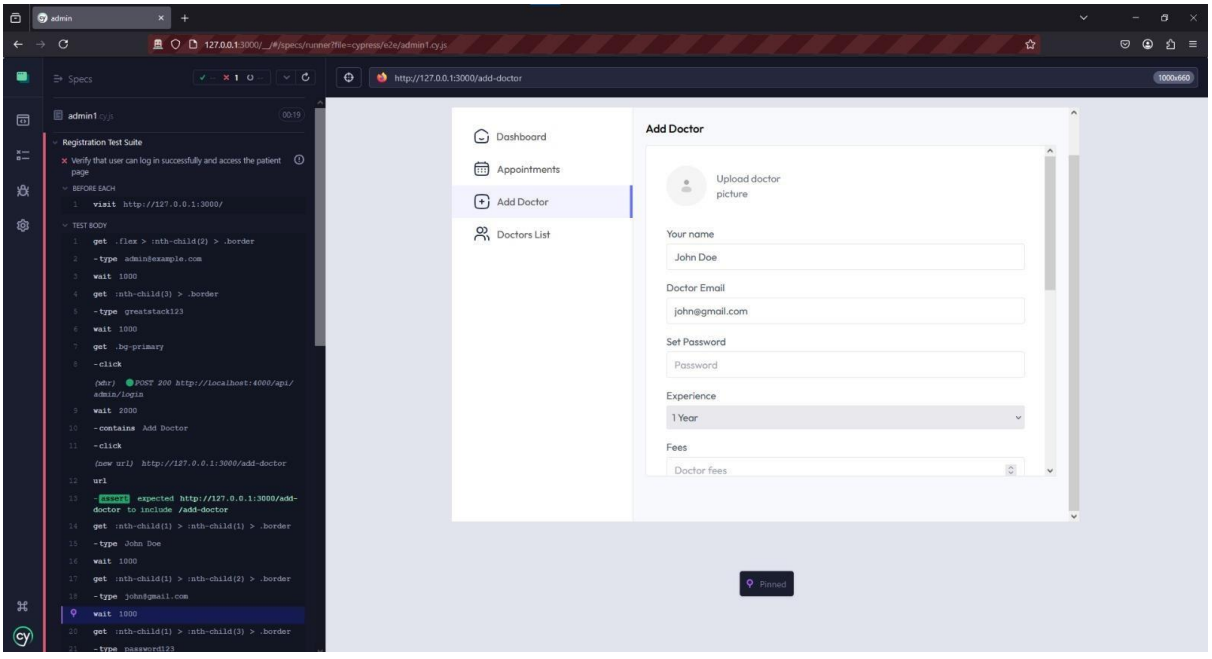
Test execution results with screenshots.




admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
http://127.0.0.1:3000/add-doctor
1000x660
admin1.cy.js
00:19
Registration Test Suite
Verify that user can log in successfully and access the patient page
BEFORE EACH
visit http://127.0.0.1:3000/
TEST BODY
get .flex > :nth-child(2) > .border
-type admin@example.com
wait 1000
get :nth-child(3) > .border
-type greatstack123
wait 1000
get .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/admin/login
wait 2000
-contains Add Doctor
-click
(new url) http://127.0.0.1:3000/add-doctor
url
-assert expected http://127.0.0.1:3000/add-doctor to include /add-doctor
get :nth-child(1) > :nth-child(1) > .border
-type John Doe
wait 1000
get :nth-child(1) > :nth-child(2) > .border
-type john@gmail.com
wait 1000
get :nth-child(1) > :nth-child(3) > .border
-type password123
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Upload doctor picture
Your name
John Doe
Doctor Email
Email
Set Password
Password
Experience
1 Year
Fees
Doctor fees
Pinned


admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
http://127.0.0.1:3000/add-doctor
1000x660
admin1.cy.js
00:19
Registration Test Suite
Verify that user can log in successfully and access the patient page
BEFORE EACH
visit http://127.0.0.1:3000/
TEST BODY
get .flex > :nth-child(2) > .border
-type admin@example.com
wait 1000
get :nth-child(3) > .border
-type greatstack123
wait 1000
get .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/admin/login
wait 2000
-contains Add Doctor
-click
(new url) http://127.0.0.1:3000/add-doctor
url
-assert expected http://127.0.0.1:3000/add-doctor to include /add-doctor
get :nth-child(1) > :nth-child(1) > .border
-type John Doe
wait 1000
get :nth-child(1) > :nth-child(2) > .border
-type john@gmail.com
wait 1000
get :nth-child(1) > :nth-child(3) > .border
-type password123
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Upload doctor picture
Your name
John Doe
Doctor Email
john@gmail.com
Set Password
Password
Experience
1 Year
Fees
Doctor fees
Pinned


admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Upload doctor picture
Your name
John Doe
Doctor Email
john@gmail.com
Set Password
Experience
1 Year
Fees
Doctor fees
Pinned


admin
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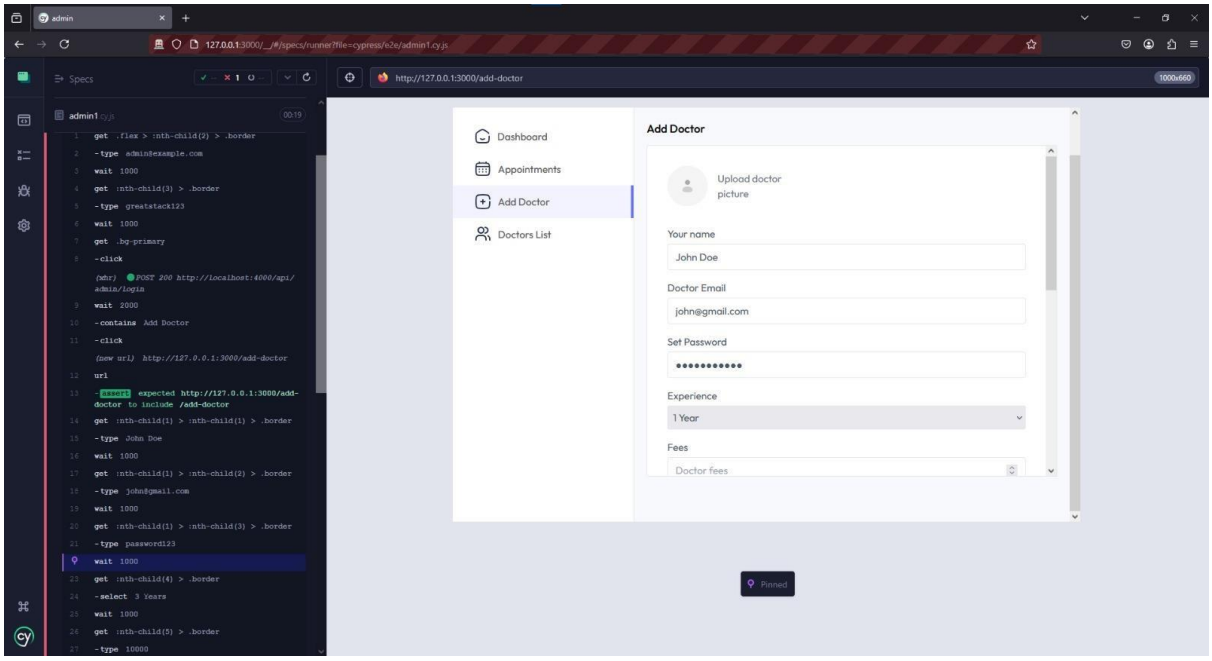
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Registration Test Suite
Verify that user can log in successfully and access the patient page
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Upload doctor picture
Your name
John Doe
Doctor Email
john@gmail.com
Set Password
Password
Experience
1 Year
Fees
Doctor fees
Pinned


admin
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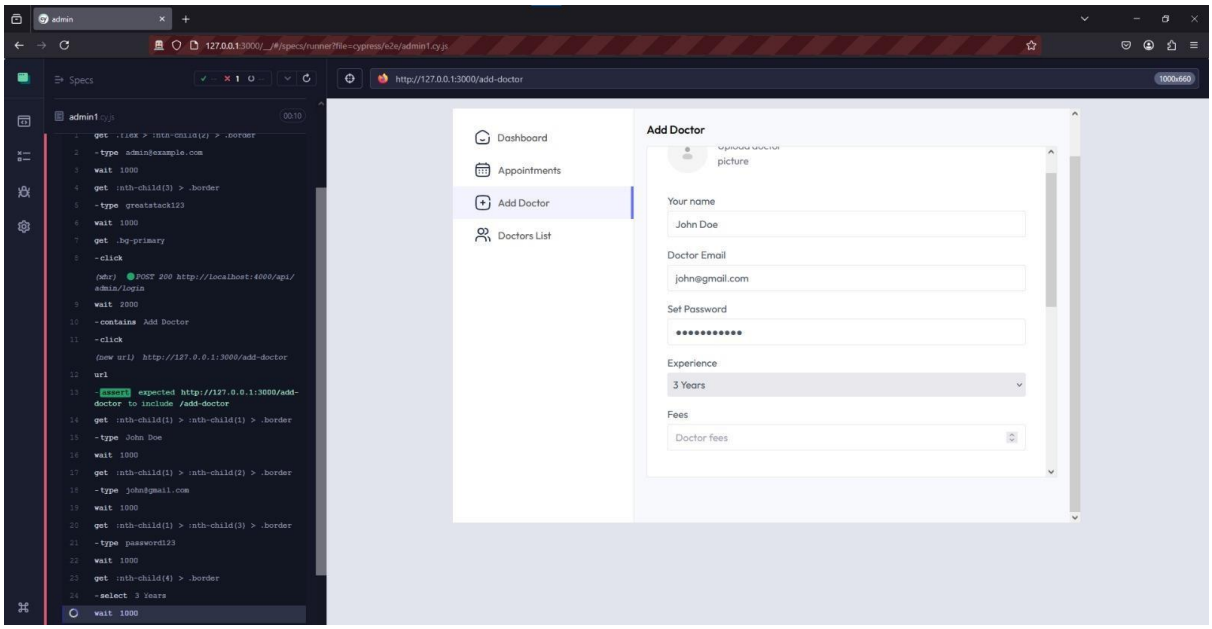
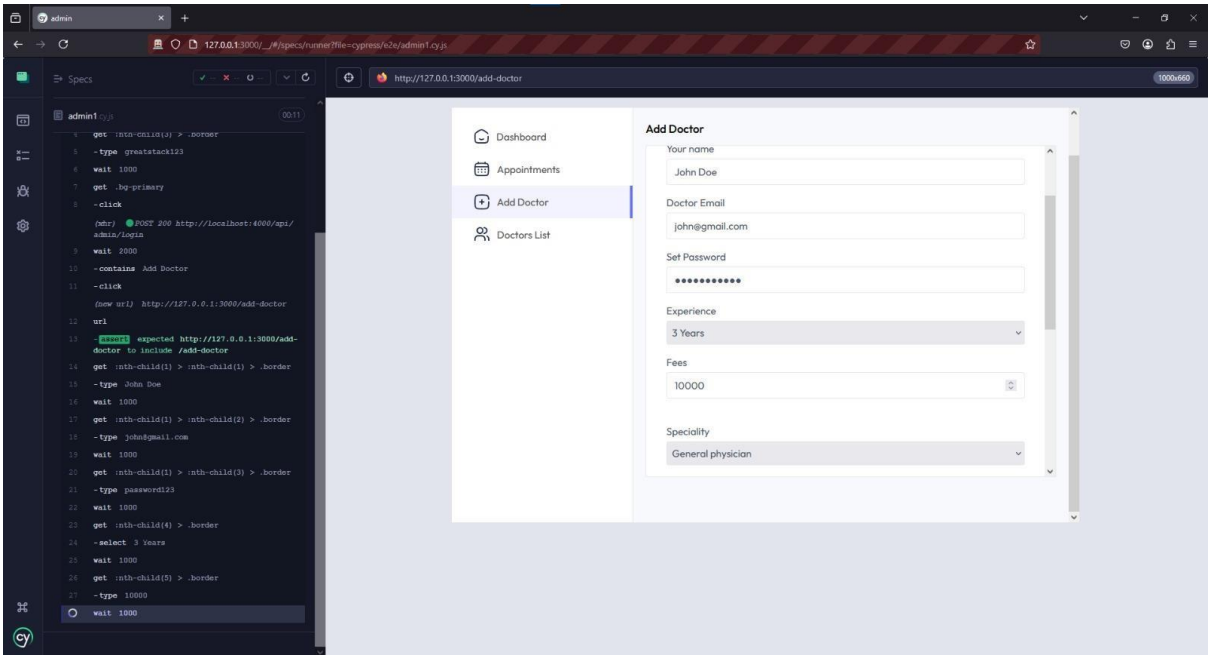
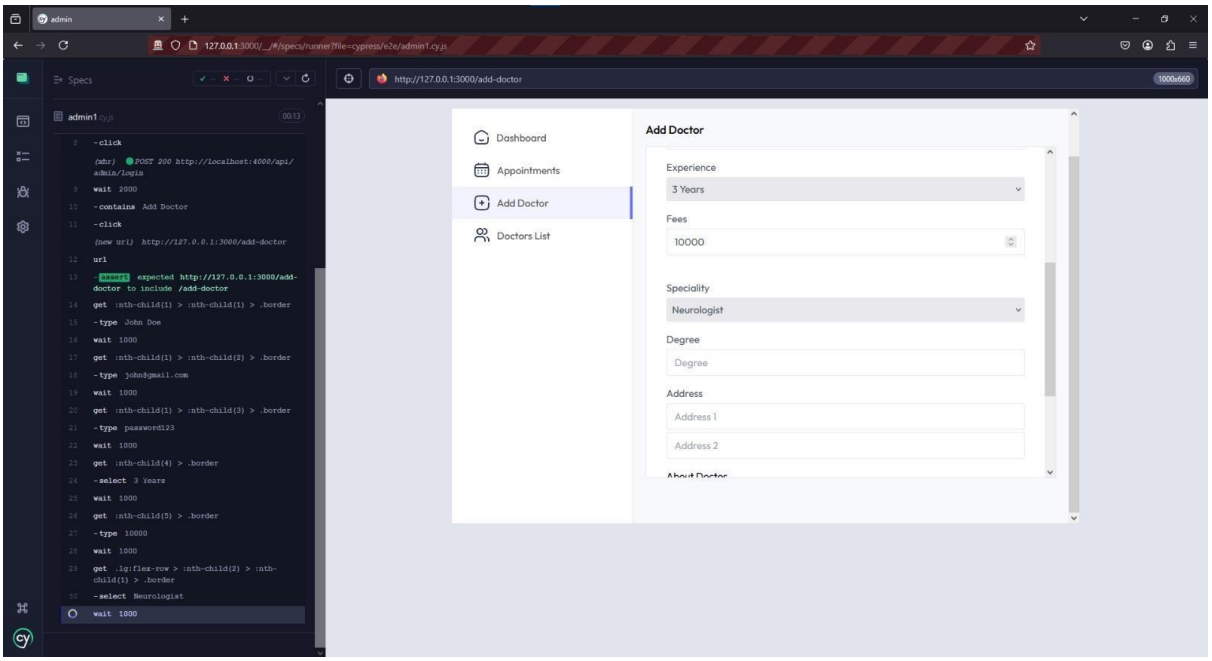
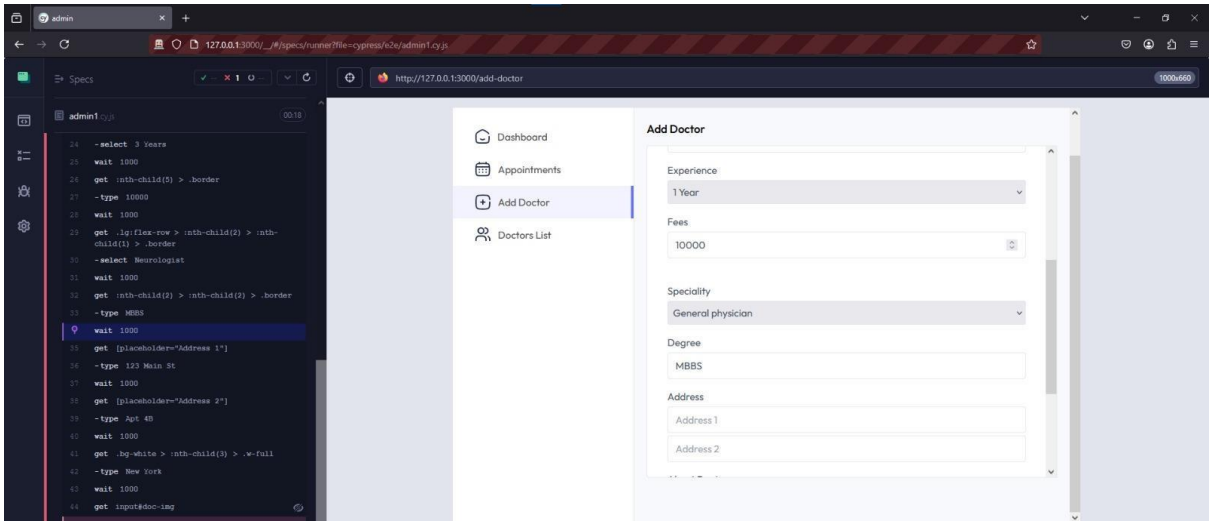
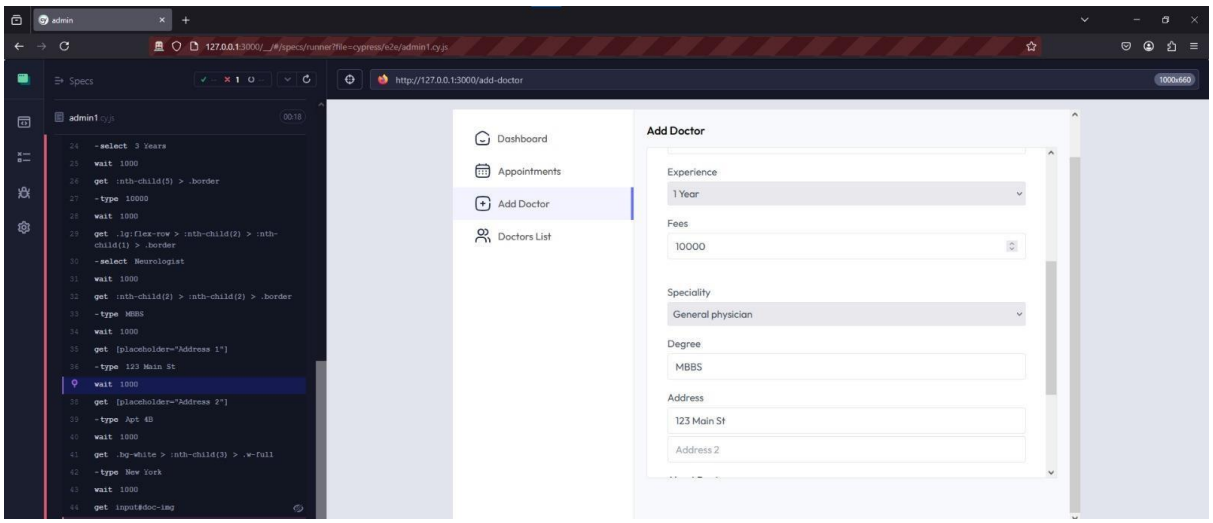
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Upload doctor picture
Your name
John Doe
Doctor Email
john@gmail.com
Set Password
Experience
1 Year
Fees
Doctor fees
Pinned

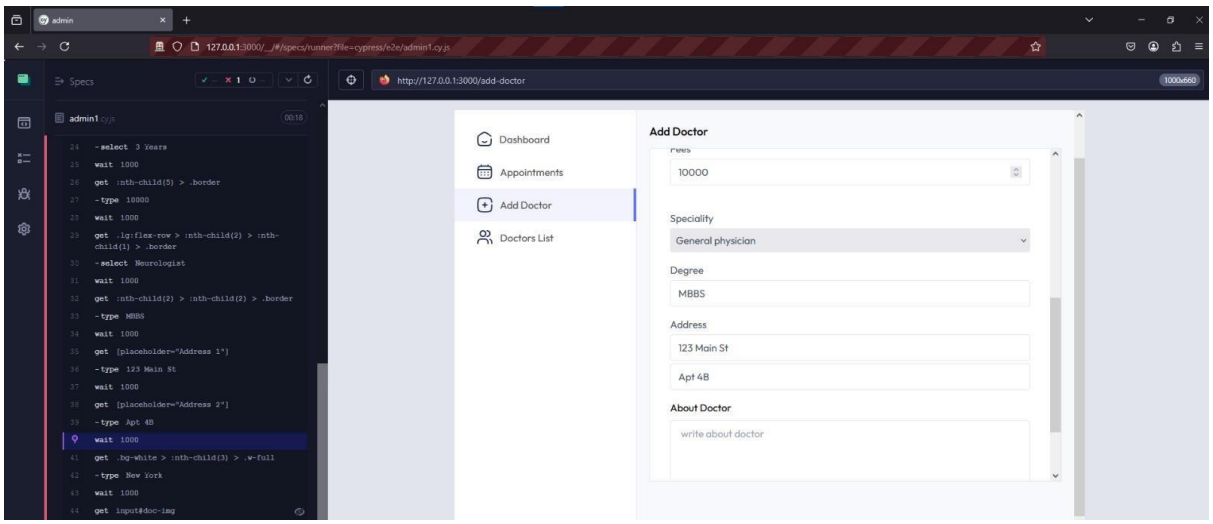

admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
picture
Your name
John Doe
Doctor Email
john@gmail.com
Set Password
Experience
3 Years
Fees
Doctor fees

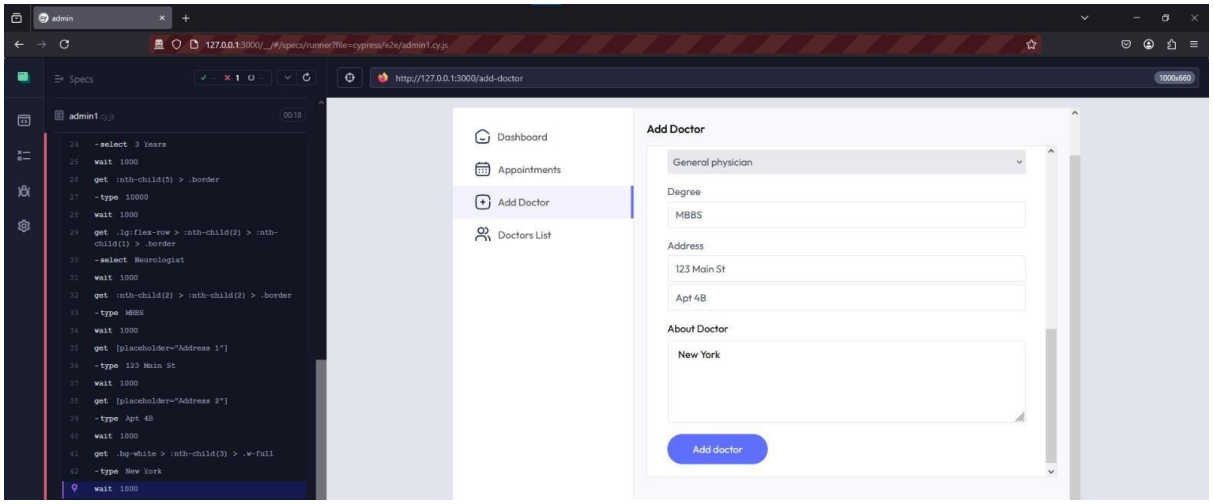

admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Your name
John Doe
Doctor Email
john@gmail.com
Set Password
Experience
3 Years
Fees
10000
Speciality
General physician


admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Experience
3 Years
Fees
10000
Speciality
Neurologist
Degree
Degree
Address
Address 1
Address 2


admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Experience
1 Year
Fees
10000
Speciality
General physician
Degree
MBBS
Address
Address 1
Address 2

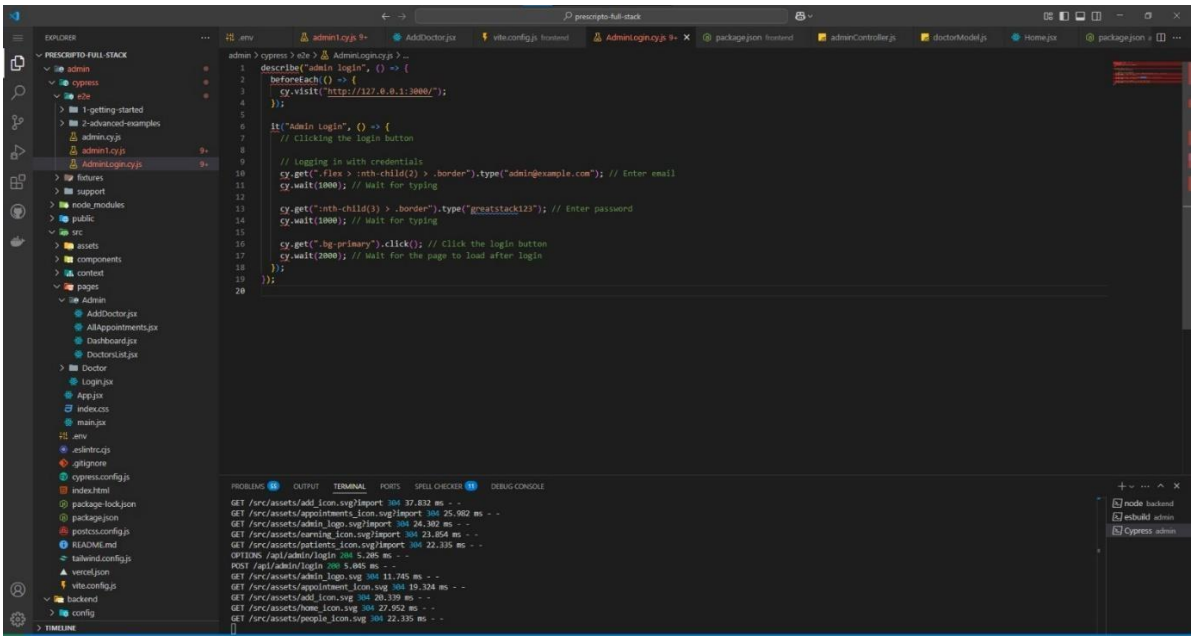

admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
Experience
1 Year
Fees
10000
Speciality
General physician
Degree
MBBS
Address
123 Main St
Address 2

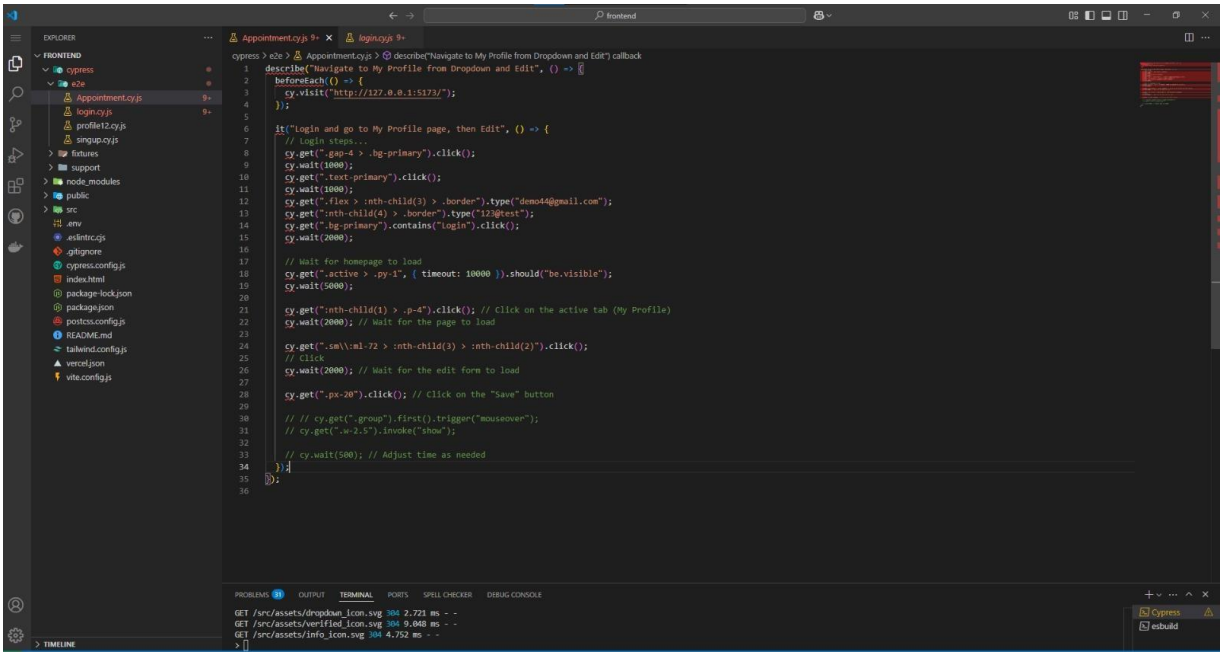

admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/admin1.cy.js
Specs
admin1.cy.js
http://127.0.0.1:3000/add-doctor
1000x660
Dashboard
Appointments
Add Doctor
Doctors List
Add Doctor
10000
Speciality
General physician
Degree
MBBS
Address
123 Main St
Apt 4B
About Doctor
write about doctor



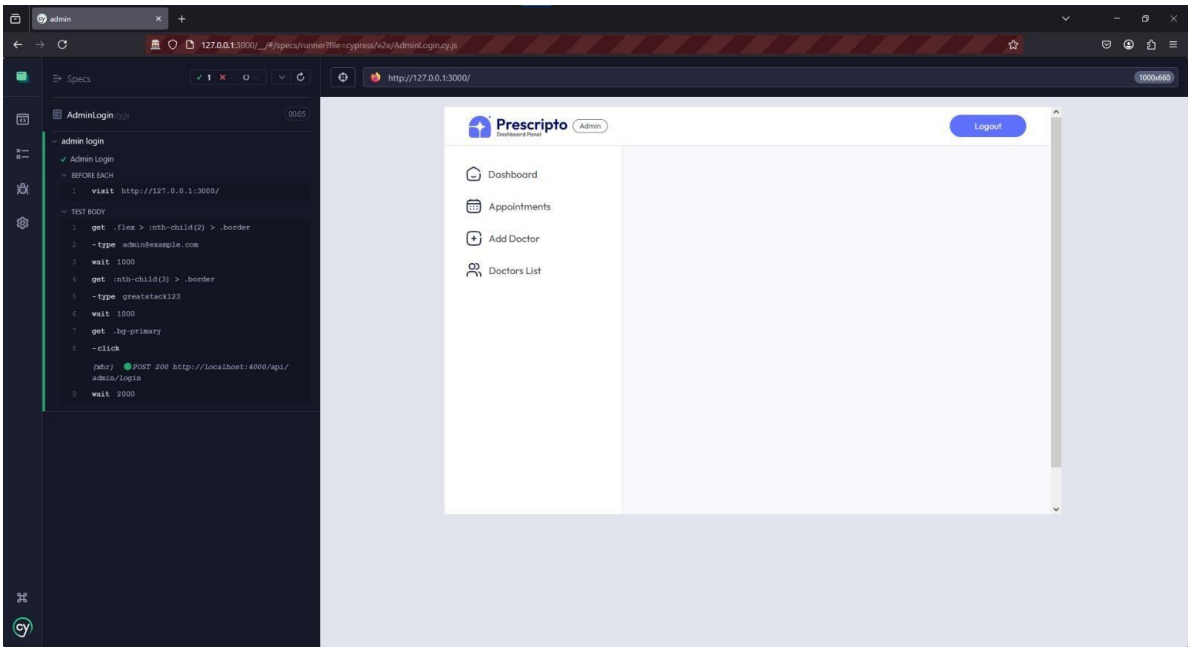
Admin panel Loging and booking doctor (IT21228094-Mendis A.R.P)

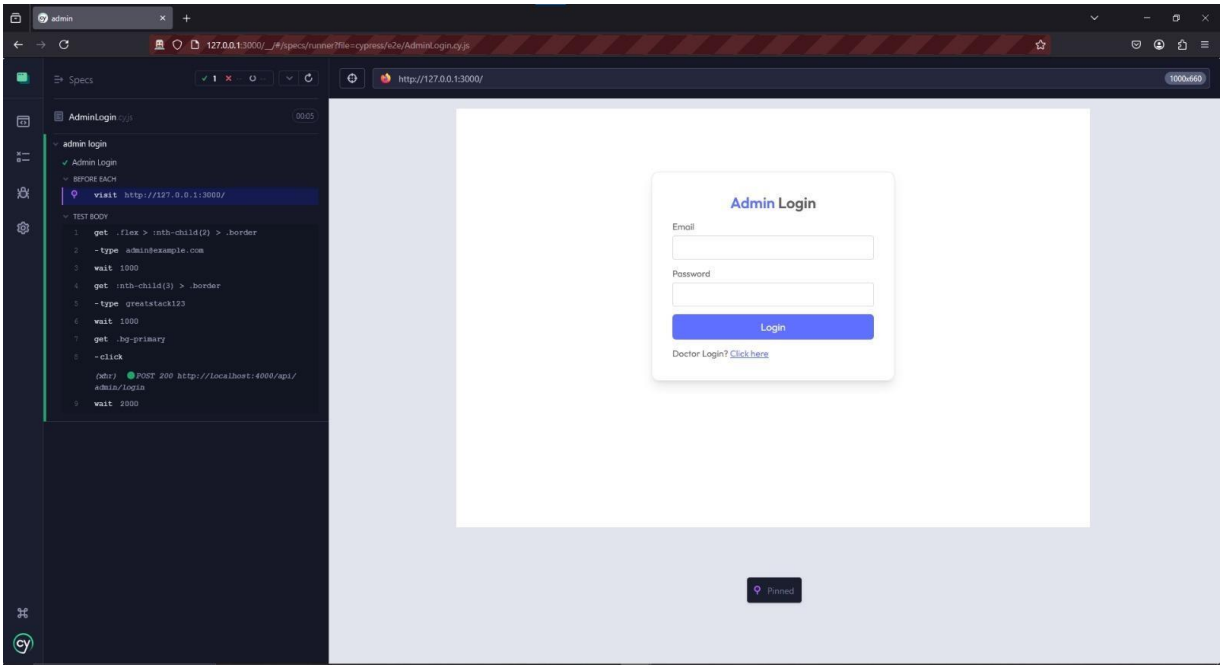
Automated test cases with scripts.

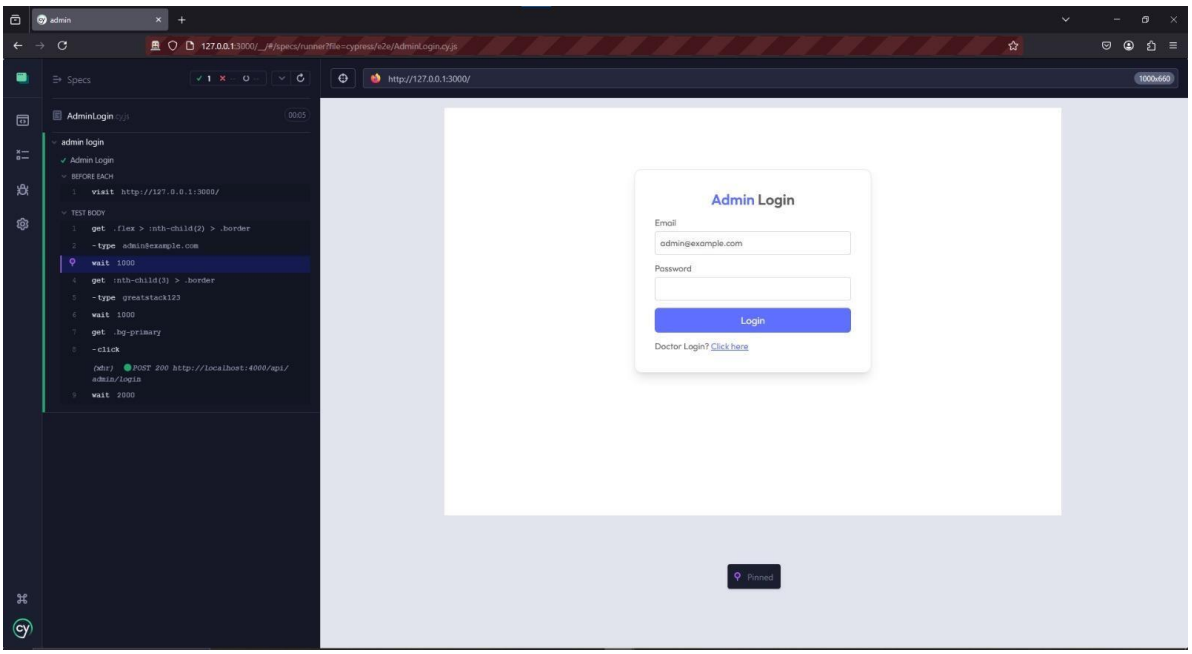




Test execution results with screenshots




admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/AdminLogin.cy.js
Specs
http://127.0.0.1:3000/
1000x660
AdminLogin.cy.js
00:05
admin login
Admin Login
BEFORE EACH
visit http://127.0.0.1:3000/
TEST BODY
get .flex > :nth-child(2) > .border
-type admin@example.com
wait 1000
get :nth-child(3) > .border
-type greatstack123
wait 1000
get .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/admin/login
wait 2000
Admin Login
Email
Password
Login
Doctor Login? Click here
Pinned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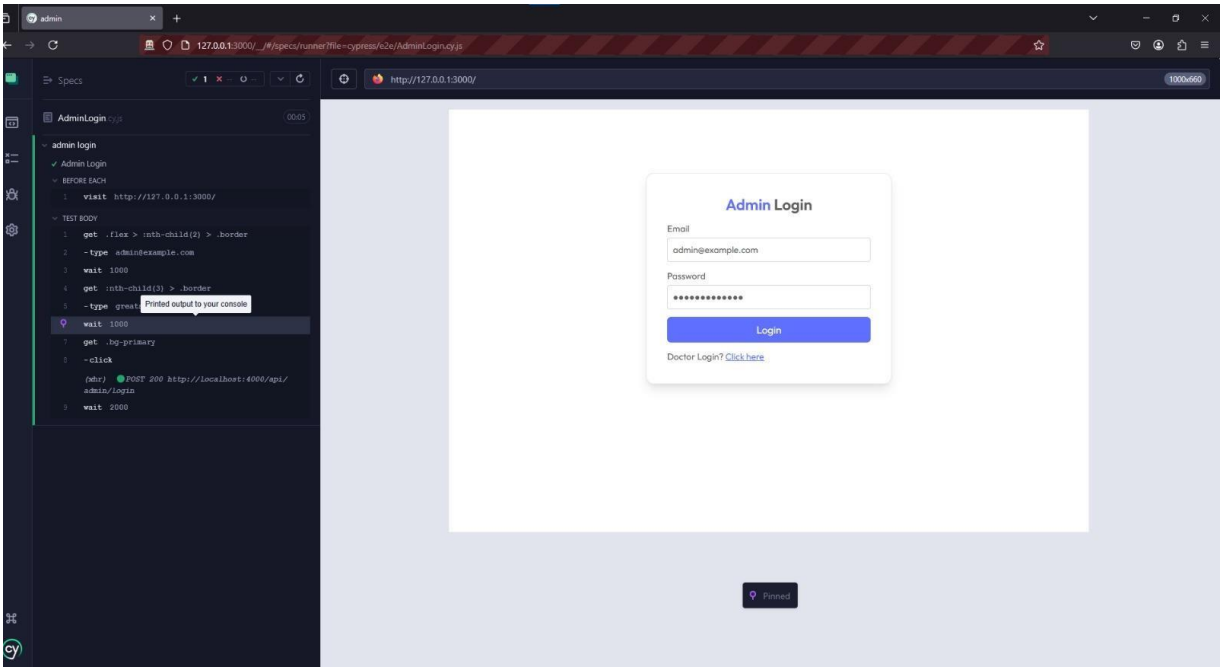
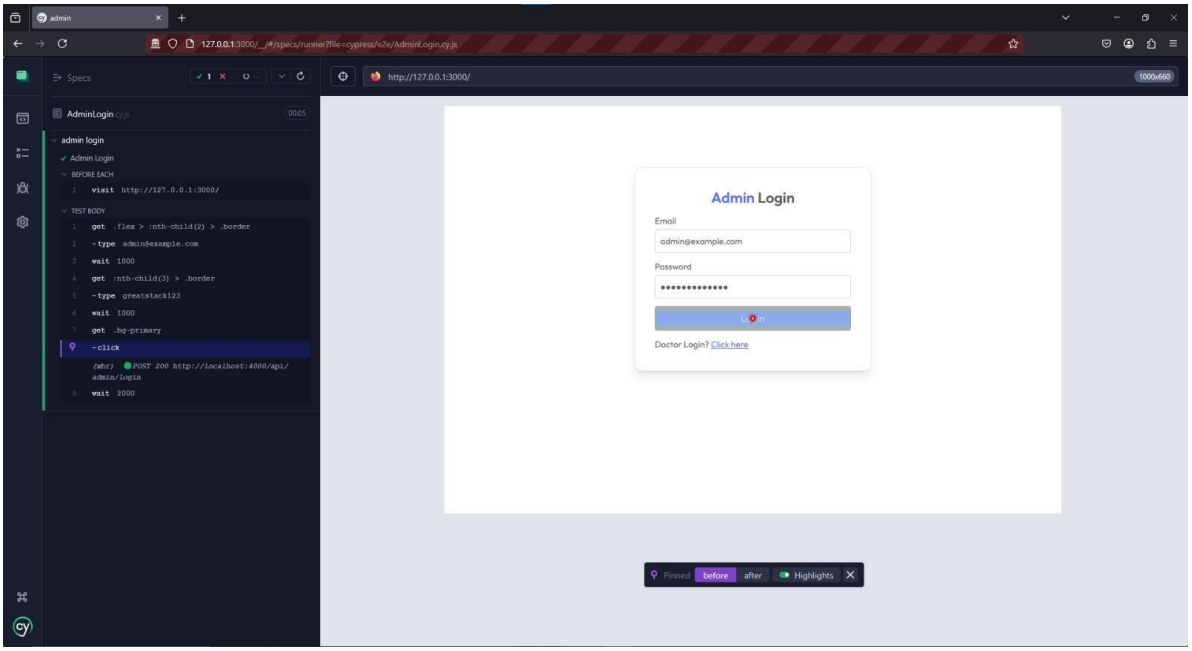
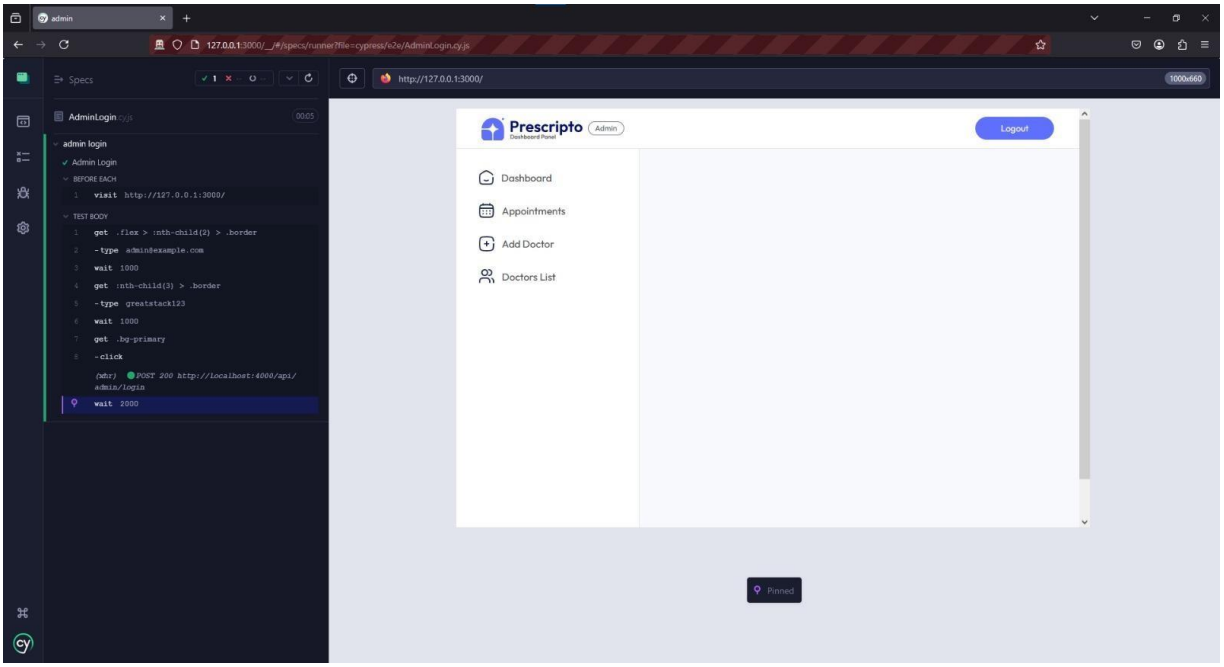
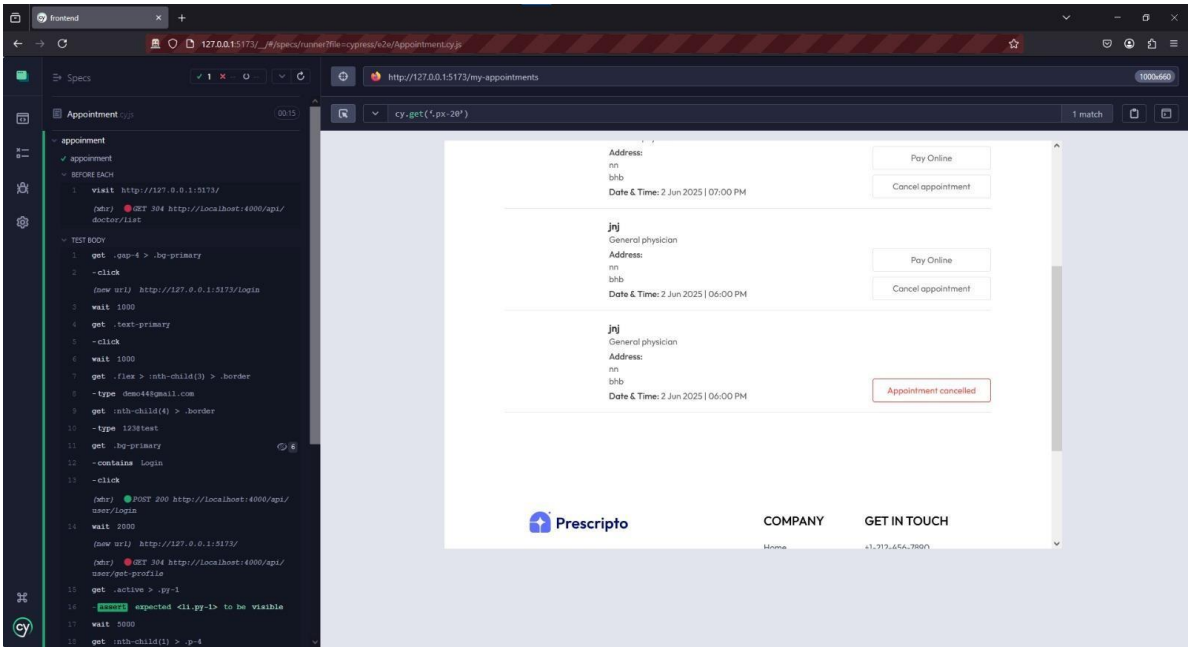
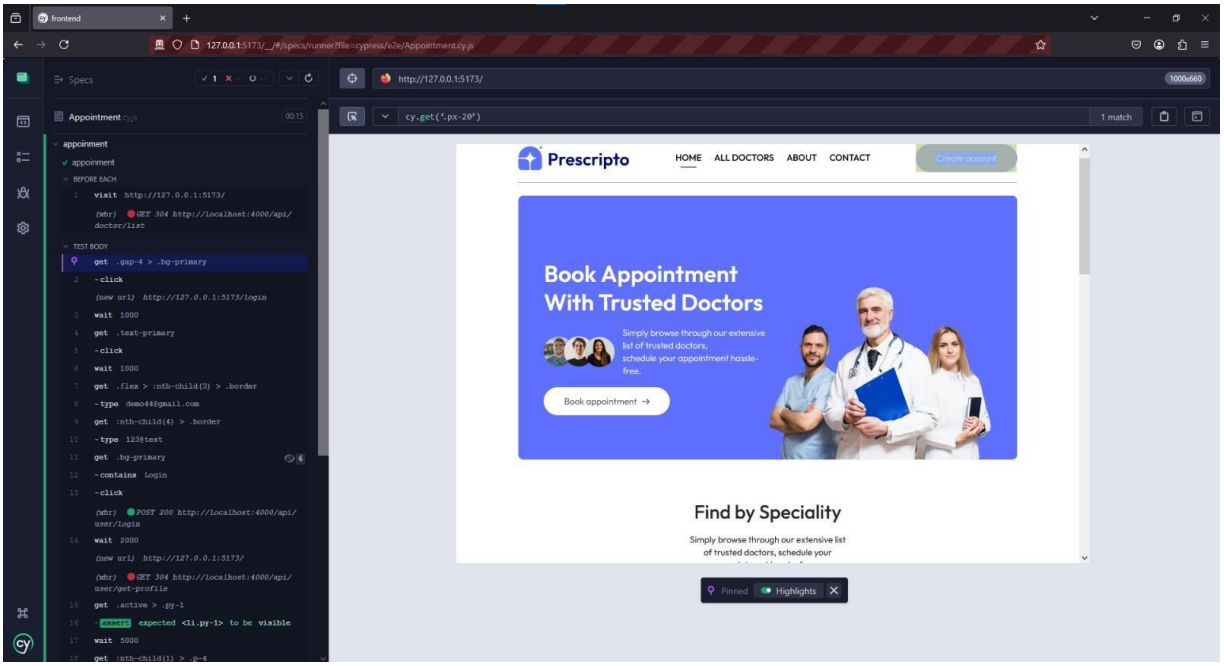
Specs
http://127.0.0.1:3000/
1000x660
AdminLogin.cy.js
00:05
admin login
Admin Login
BEFORE EACH
visit http://127.0.0.1:3000/
TEST BODY
get .flex > :nth-child(2) > .border
-type admin@example.com
wait 1000
get :nth-child(3) > .border
-type greatstack123
wait 1000
get .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/admin/login
wait 2000
Admin Login
Email
admin@example.com
Password
Login
Doctor Login? Click here
Pinned

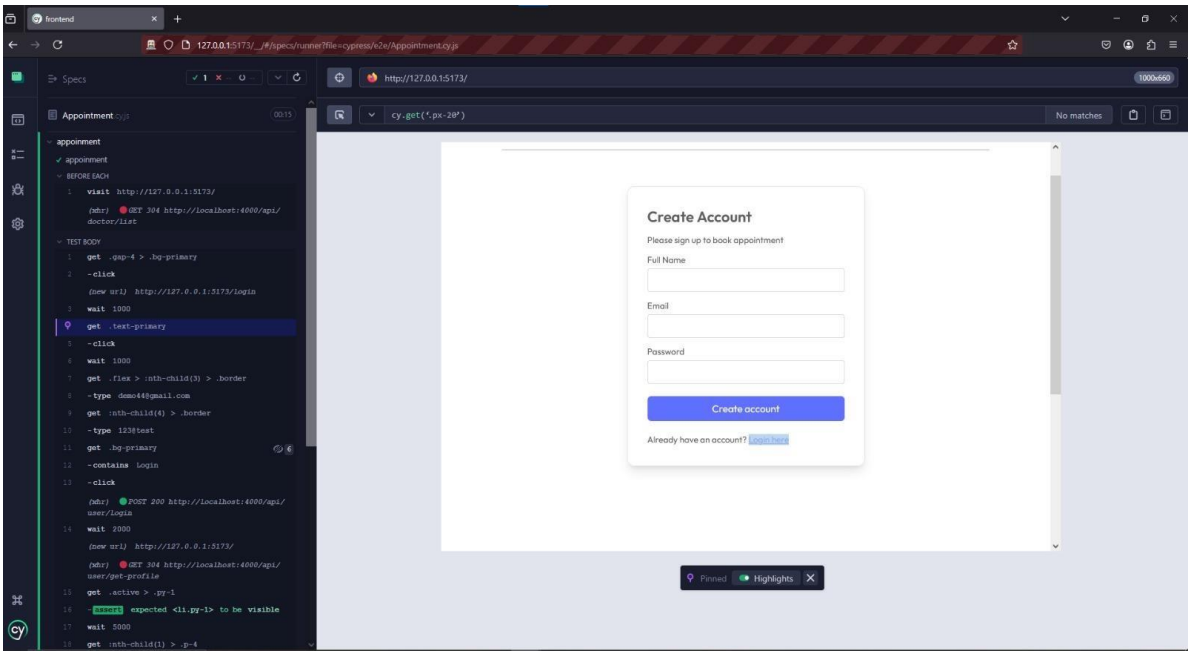

admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/AdminLogin.cy.js
Specs
AdminLogin.cy.js
00:05
admin login
Admin Login
BEFORE EACH
visit http://127.0.0.1:3000/
TEST BODY
get .flex > :nth-child(2) > .border
-type admin@example.com
wait 1000
get :nth-child(3) > .border
-type great
Printed output to your console
wait 1000
get .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/admin/login
wait 2000
http://127.0.0.1:3000/
1000x660
Admin Login
Email
admin@example.com
Password
Login
Doctor Login? Click here
Pinned

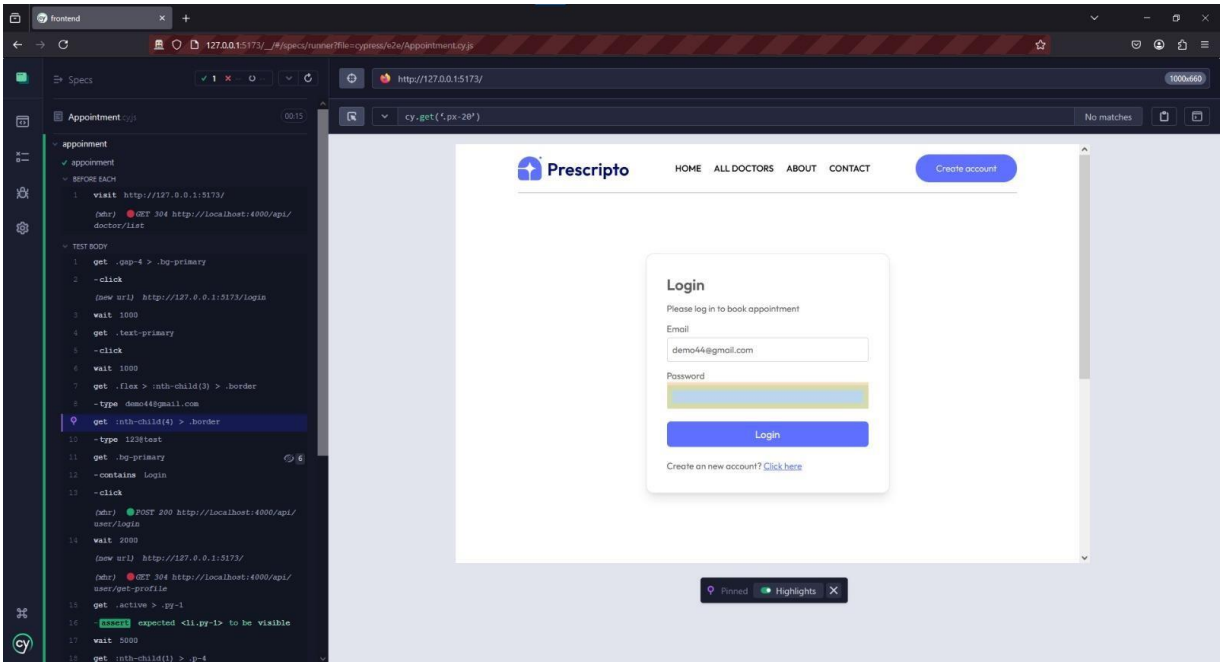

admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/AdminLogin.cy.js
Specs
AdminLogin.cy.js
00:05
admin login
Admin Login
BEFORE EACH
visit http://127.0.0.1:3000/
TEST BODY
get .flex > :nth-child(2) > .border
-type admin@example.com
wait 1000
get :nth-child(3) > .border
-type greatatack123
wait 1000
get .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/admin/login
wait 2000
http://127.0.0.1:3000/
1000x660
Admin Login
Email
admin@example.com
Password
Doctor Login? Click here
Pinned
before
after
Highlights

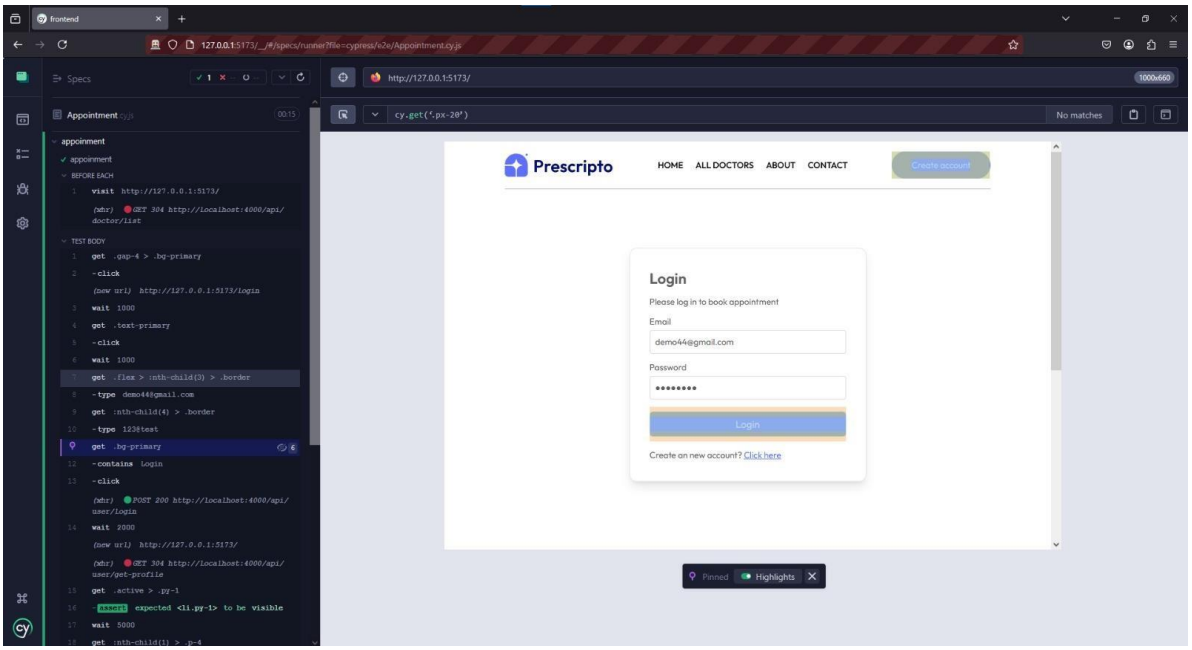

admin
127.0.0.1:3000/__/#/specs/runner?file=cypress/e2e/AdminLogin.cy.js
Specs
AdminLogin.cy.js
admin login
Admin Login
BEFORE EACH
visit http://127.0.0.1:3000/
TEST BODY
get .flex > :nth-child(2) > .border
-type admin@example.com
wait 1000
get :nth-child(3) > .border
-type greatstack123
wait 1000
get .bg-primary
-click
(xhr) POST 200 http://localhost:4000/api/admin/login
wait 2000
http://127.0.0.1:3000/
1000x660
Prescripto
Admin
Logout
Dashboard
Appointments
Add Doctor
Doctors List
Pinned

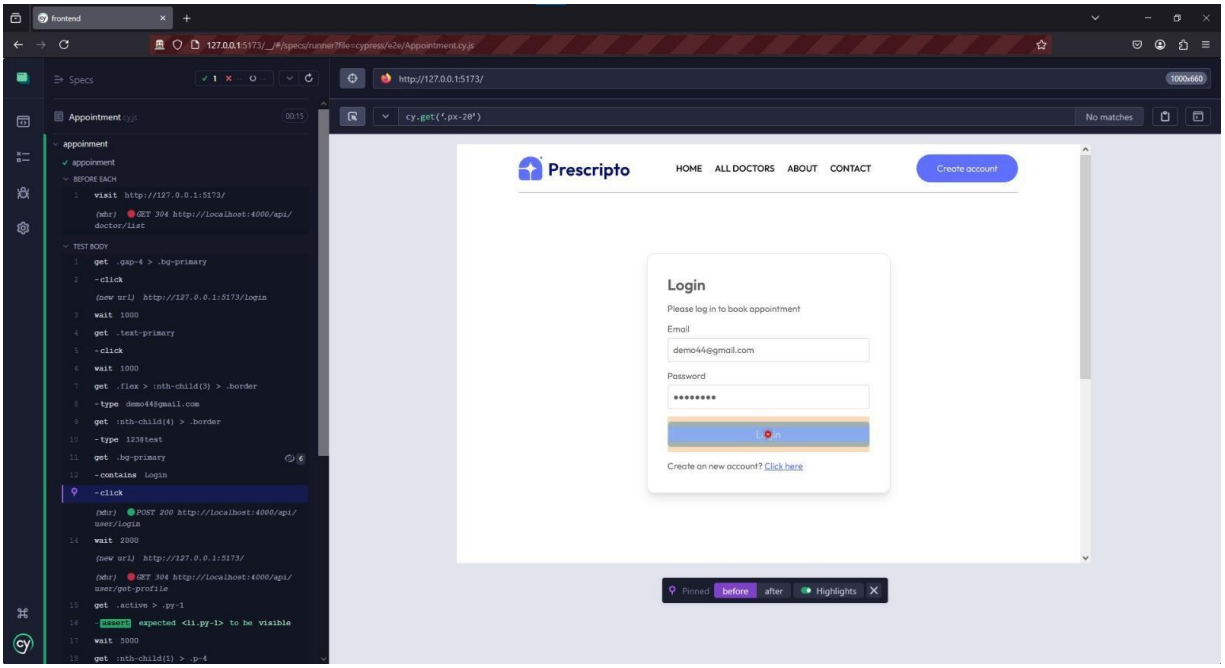

frontend
127.0.0.1:5173/__/#/specs/runner?file=cypress/e2e/Appointment.cy.js
Specs
Appointment.cy.js
appoinment
appoinment
BEFORE EACH
visit http://127.0.0.1:5173/
(xhr) GET 304 http://localhost:4000/api/doctor/list
TEST BODY
get .gap-4 > .bg-primary
-click
(new url) http://127.0.0.1:5173/login
wait 1000
get .text-primary
-click
wait 1000
get .flex > :nth-child(3) > .border
-type demo44@gmail.com
get :nth-child(4) > .border
-type 123@test
get .bg-primary
-contains Login
-click
(xhr) POST 200 http://localhost:4000/api/user/login
wait 2000
(new url) http://127.0.0.1:5173/
(xhr) GET 304 http://localhost:4000/api/user/get-profile
get .active > .py-1
-assert expected <li.py-1> to be visible
wait 5000
get :nth-child(1) > .p-4
http://127.0.0.1:5173/my-appointments
1000x660
cy.get('.px-20')
1 match
Address:
nn
bhb
Date & Time: 2 Jun 2025 | 07:00 PM
Pay Online
Cancel appointment
jnj
General physician
Address:
nn
bhb
Date & Time: 2 Jun 2025 | 06:00 PM
Pay Online
Cancel appointment
jnj
General physician
Address:
nn
bhb
Date & Time: 2 Jun 2025 | 06:00 PM
Appointment cancelled
Prescripto
COMPANY
GET IN TOUCH

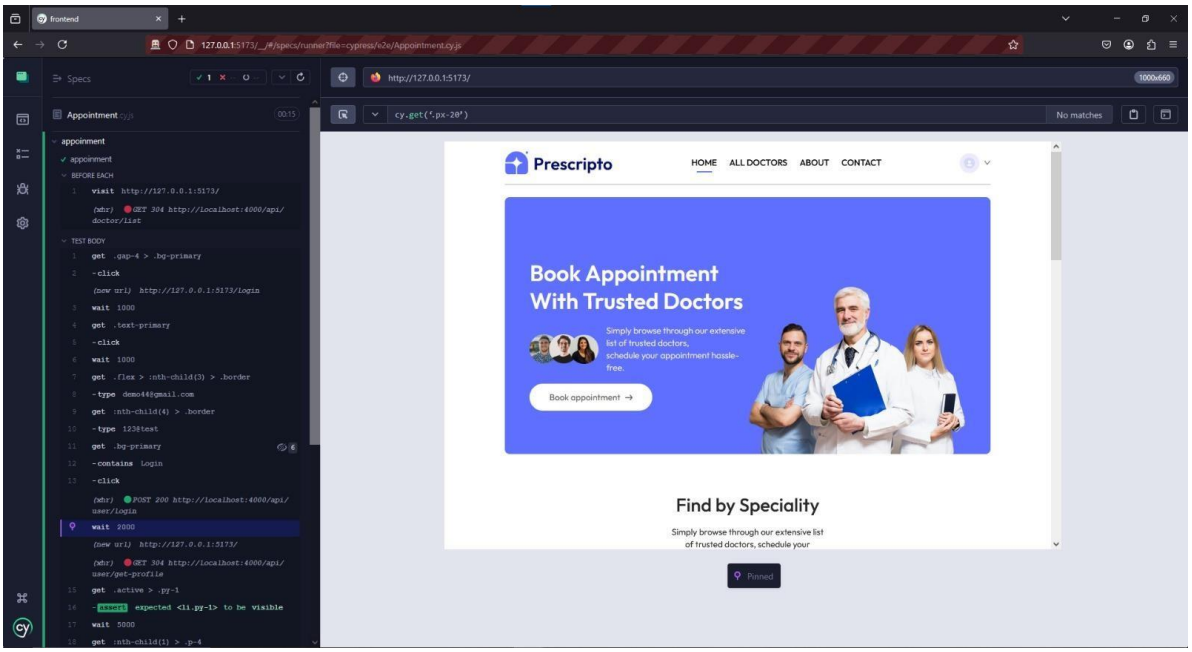

Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Book Appointment
With Trusted Doctors
Simply browse through our extensive list of trusted doctors, schedule your appointment hassle-free.
Book appointment →
Find by Speciality
Simply browse through our extensive list of trusted doctors, schedule your

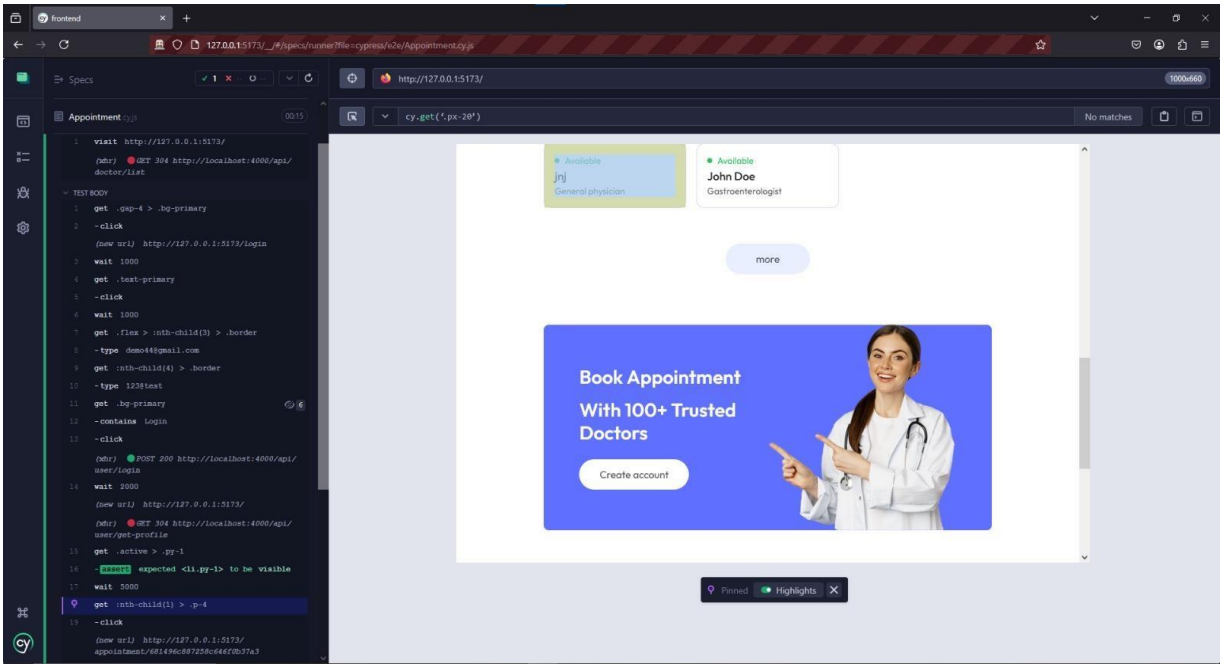

Create Account
Please sign up to book appointment
Full Name
Email
Password
Create account
Already have an account? Login here

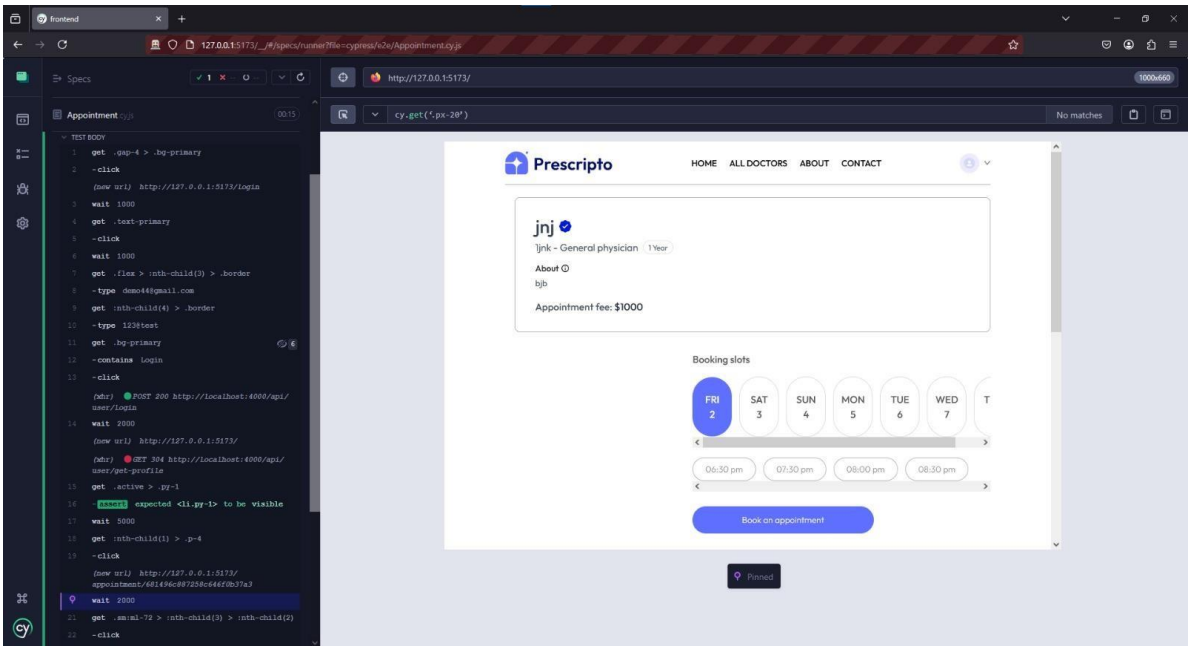

Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Login
Please log in to book appointment
Email
demo44@gmail.com
Password
Login
Create an new account? Click here

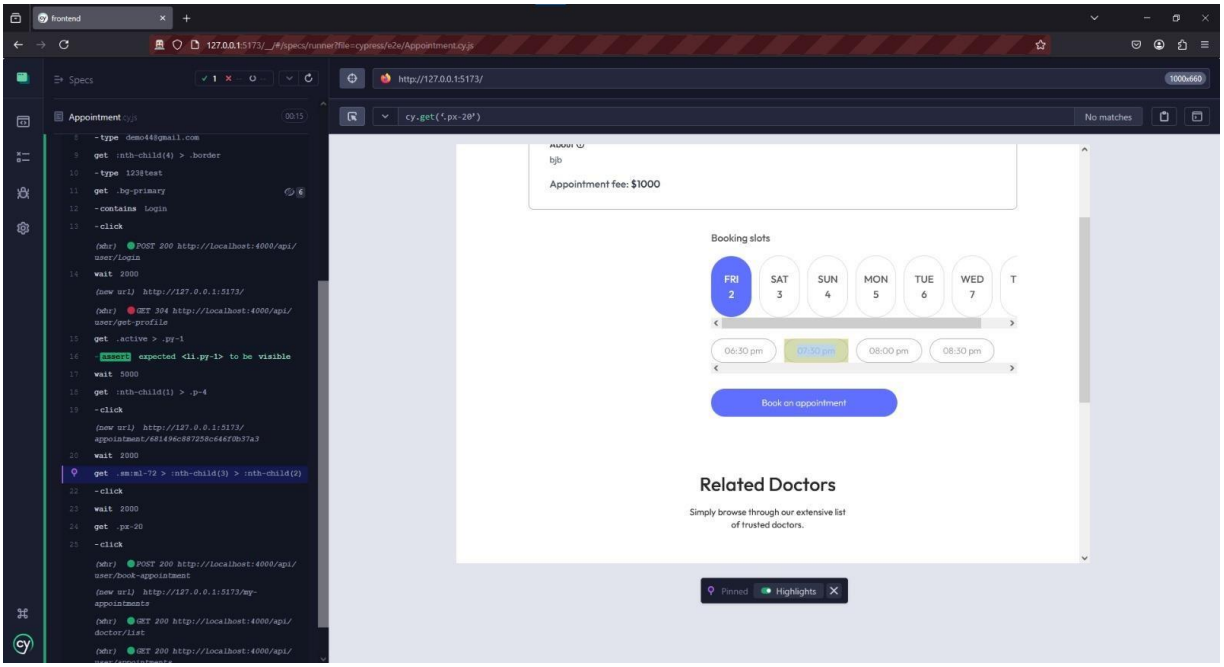

Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Login
Please log in to book appointment
Email
demo44@gmail.com
Password
Login
Create an new account? Click here

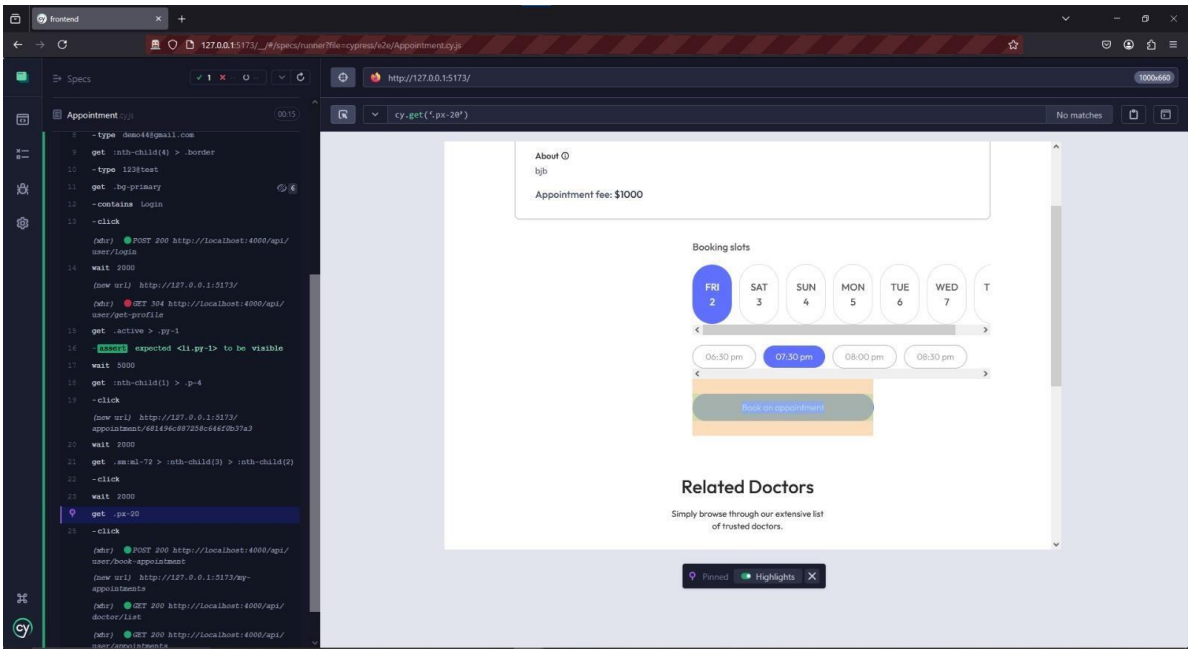

Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Create account
Login
Please log in to book appointment
Email
demo44@gmail.com
Password
Create an new account? Click here
Pinned
before
after
Highlights


Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
Book Appointment
With Trusted Doctors
Simply browse through our extensive list of trusted doctors, schedule your appointment hassle-free.
Book appointment →
Find by Speciality
Simply browse through our extensive list of trusted doctors, schedule your
Pinned


Specs
Appointment
visit http://127.0.0.1:5173/
GET 304 http://localhost:4000/api/doctor/list
TEST BODY
get .gap-4 > .bg-primary
-click
(new url) http://127.0.0.1:5173/Login
wait 1000
get .text-primary
-click
wait 1000
get .flex > :nth-child(3) > .border
-type demo44@gmail.com
get :nth-child(4) > .border
-type 123@test
get .bg-primary
-contains Login
-click
POST 200 http://localhost:4000/api/user/login
wait 2000
(new url) http://127.0.0.1:5173/
GET 304 http://localhost:4000/api/user/get-profile
get .active > .py-1
-assert expected <li.py-1> to be visible
wait 5000
get :nth-child(1) > .p-4
-click
(new url) http://127.0.0.1:5173/appointment/681496c887258c646f0b37a3
http://127.0.0.1:5173/
cy.get('.px-20')
No matches
Available
jnj
General physician
Available
John Doe
Gastroenterologist
more
Book Appointment
With 100+ Trusted
Doctors
Create account
Pinned
Highlights


Specs
Appointment
TEST BODY
http://127.0.0.1:5173/
cy.get('.px-20')
No matches
Prescripto
HOME
ALL DOCTORS
ABOUT
CONTACT
jnj
1jnk - General physician
1 Year
About
bjb
Appointment fee: $1000
Booking slots
FRI 2
SAT 3
SUN 4
MON 5
TUE 6
WED 7
06:30 pm
07:30 pm
08:00 pm
08:30 pm
Book an appointment
Pinned


frontend
Appointment
Appointment fee: $1000
Booking slots
FRI 2
SAT 3
SUN 4
MON 5
TUE 6
WED 7
06:30 pm
07:30 pm
08:00 pm
08:30 pm
Book an appointment
Related Doctors
Simply browse through our extensive list of trusted doctors.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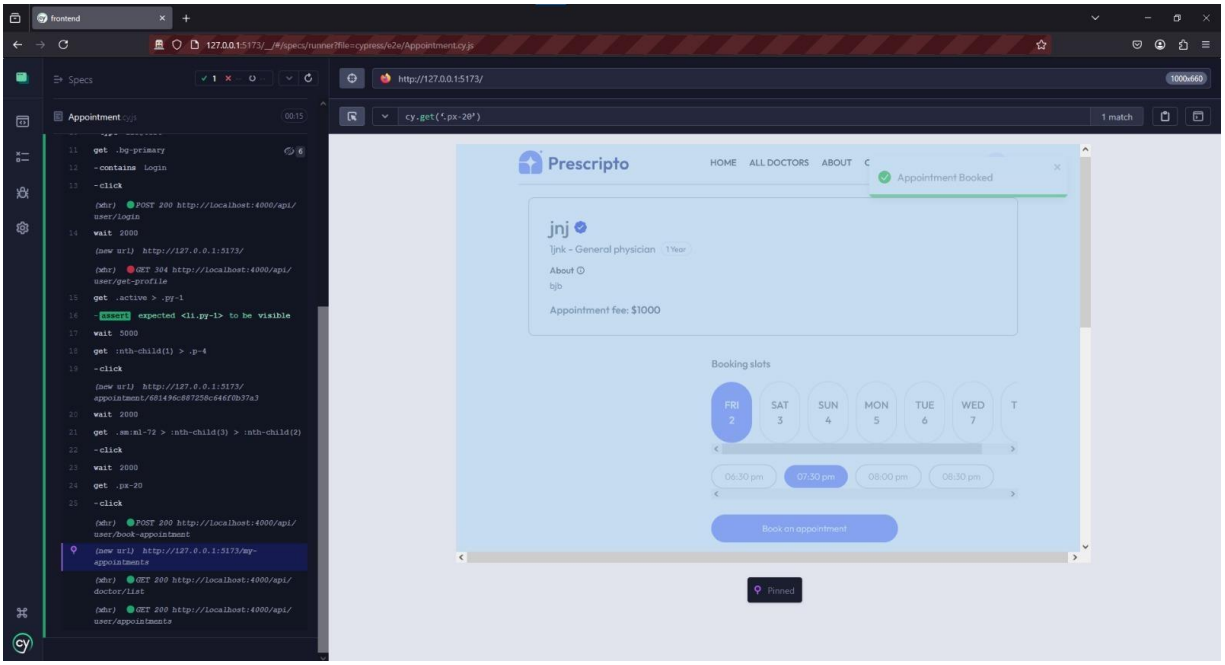

3. List of identified defects with priority and severity levels.

4. Defect ID	Description	Module	Severity	Priority	Status
DEF-001	Profile picture upload allows unsupported file types (e.g., .exe, .bat)	Edit Profile	Medium	High	Fixed
DEF-002	No error message appears for incorrect	Login	Low	Medium	Fixed

	login credentials				
DEF-003	Admin "Add Doctor" form allows submission without required fields	Admin Dashboard	High	High	Fixed
DEF-004	Phone number field accepts alphabetic characters	Edit Profile	Medium	Medium	Fixed
DEF-005	No success message displayed after successful user registration	Sign-Up	Low	Low	Fixed
DEF-006	Newly added doctors do not show immediately in list without page refresh	Admin Dashboard	Medium	Medium	Fixed
DEF-007	On mobile view, form fields in admin dashboard overlap due to CSS issues	Admin Dashboard	Medium	Low	Pending
DEF-008	User can proceed to book an appointment without selecting a doctor	Appointment	High	High	In Progress
DEF-009	Gender dropdown in profile edit	Edit Profile	Low	Low	Fixed

	not pre-populated with existing data				

5. Conclusion

Testing has been a key consideration in deciding the effectiveness of healthcare solutions such as Prescripto. By employing a governed testing approach that entailed manual audit and Cypress-led automation, we ensured the platform meets quality parameters and delivers consistent user experiences.

By emphasizing actual-world interactions and important attributes, our group ensured the functional completeness and reliability of Prescripto. This extensive test atmosphere is an indicator of our commitment to healthcare perfection and enhancement.

In the future, we plan on expanding our coverage of testing across features like doctor reviews, role-based authorization, and appointment scheduling. Prescripto is developed with automation in its core and is best situated to scale up, grow, and be a trusted healthcare ally.