

# MULTIDISCIPLINARY PROJECT USER MANUAL

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PLURIDISCIPLINARY PROJECT  
OF FINAL YEAR OF PREPARATORY CYCLE  
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Special thanks go to our families and friends, whose patience and unwavering support gave us the strength to persevere during moments of challenge.

This project stands as a reflection of the collective support we received, and for that, we are truly appreciative.

# **Chapter 1**

## **Introduction**

Finding internships remains a significant challenge for university students, particularly those in their final years of study. Opportunities are often fragmented across various platforms, lacking centralization or clarity. Many students are unaware of where to search, how to apply, or which roles match their skills and aspirations. The absence of clear guidance or structured pipelines means that even qualified candidates may miss critical deadlines or fail to discover relevant opportunities altogether. This disconnect not only affects students—it also presents a problem for companies. Many businesses, especially startups and small enterprises, are eager to collaborate with young, skilled individuals but lack the channels or visibility to reach them. Traditional recruitment processes are slow, unscalable, and not tailored to short-term internships or collaborative academic projects. As a result, valuable potential partnerships between students and companies remain unrealized. Additionally, many internship application processes fail to support collaborative student work. Students may have innovative ideas and team-based skills but lack a platform to apply as cohesive groups, showcase their collective strengths, or propose team-based solutions to real-world challenges companies face. In short, there is a clear need for a unified platform that:

Simplifies internship discovery and application for students,

Offers centralized and verified postings from companies,

Facilitates team-based applications and project submissions,

Encourages direct communication between candidates and recruiters,

And ultimately bridges the experience gap between academia and industry. This project aims to meet that need.

## Platform Overview — Homepage Screens

To enhance accessibility and engagement, the platform provides an intuitive and modern interface on both web and mobile devices. Below are screenshots of the homepage (landing/dashboard) presented on each platform:

### Web Application Homepage

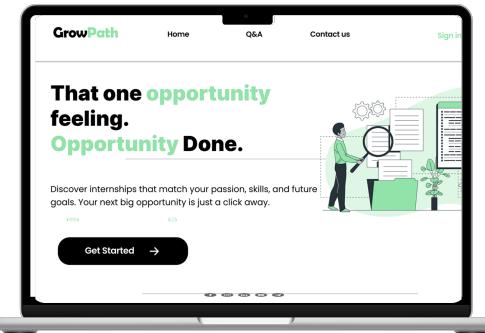
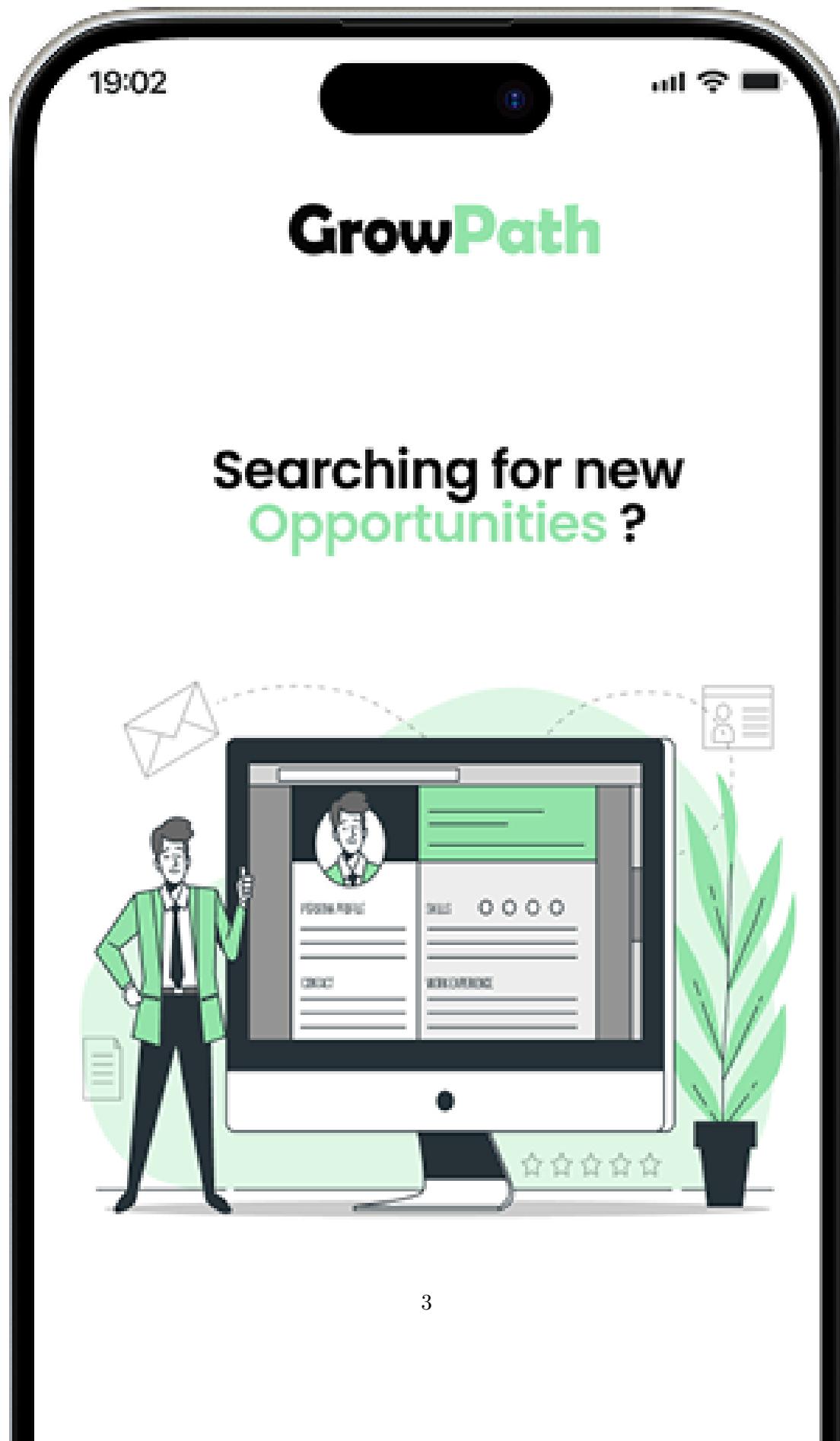


Figure 1.1: Homepage — Web Platform (React)

The web homepage welcomes users with an overview of internship opportunities, featured companies, and a direct path to authentication. Registered users are redirected to a personalized dashboard where they can track applications, join teams, and communicate with recruiters.

Mobile Application Homepage



# Chapter 2

## Authentication

### 2.1 Account Creation — Web and Mobile Application

This chapter explains the process of creating and accessing a user account on our platform, both on the web version and the mobile application. Two types of users are supported: students and companies.

#### 2.1.1 Authentication — Web Application (React)

##### Sign In

To access your account through the web platform, simply enter your email address and password on the Sign-in screen, or log in using Google or LinkedIn. If you log in with OAuth, a pop-up will appear prompting you to select your user type.

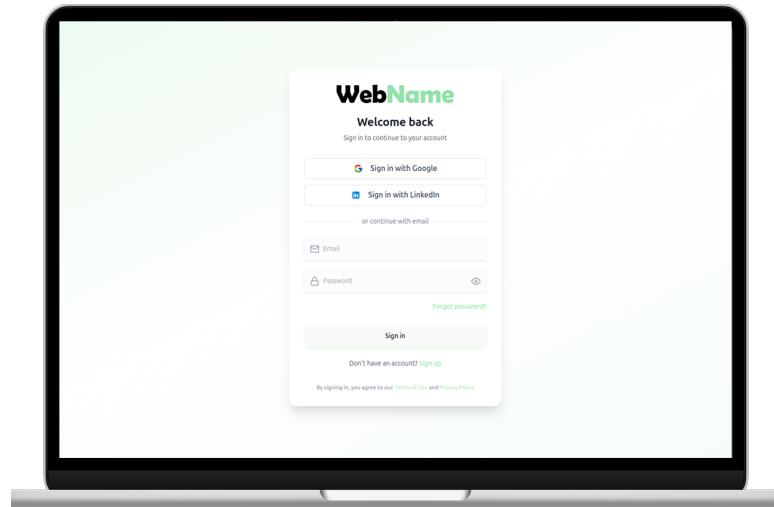


Figure 2.1: Login screen — Web

By clicking the **signin** button, you will be redirected to the protected home page.

## Sign Up

If you do not yet have an account, click the **Sign up** link on the Singin screen. You will be redirected to a registration form:

- Email
- Full name
- Phone number
- Password
- Confirm Password
- Type (it can be a Student or a Company )

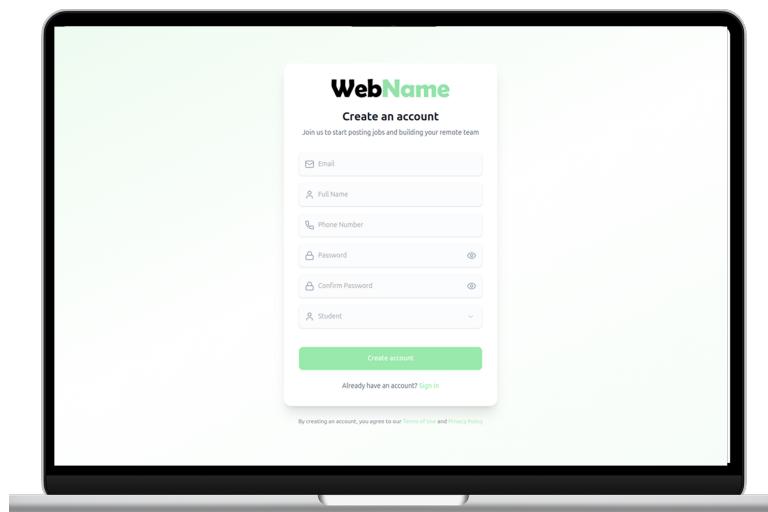


Figure 2.2: Registration screen — Web

Once the fields are filled in, click **Sing up**. You will be redirected to protected home .

## Forget a Password (OTP)

If you've forgotten your password, click on **Forgot Password**. You will receive a code via email. Enter this code on the OTP page. If the code is correct, you will be redirected to the protected home page. If the code is incorrect, you will be notified that the OTP is invalid.

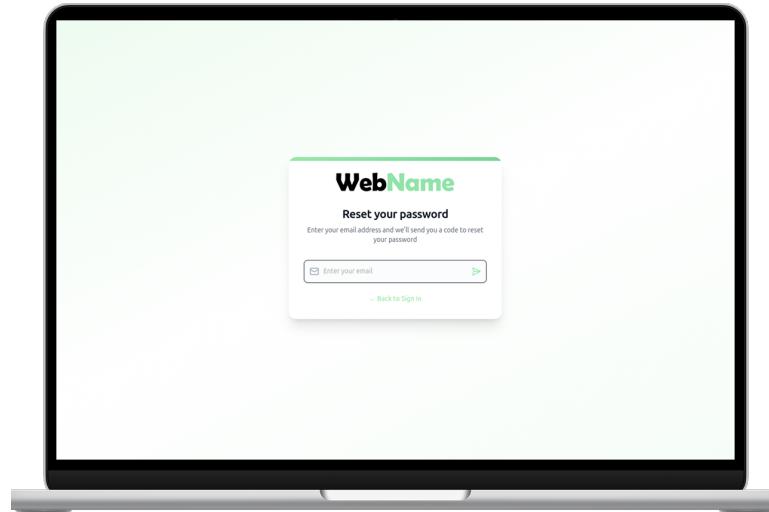


Figure 2.3: Verification email example

The user must enter this code on the web interface to permanently activate their account.

### 2.1.2 Authentication — Mobile Application (Flutter)

#### Sign In

On the mobile application, the user must provide their email address and password on the login screen.

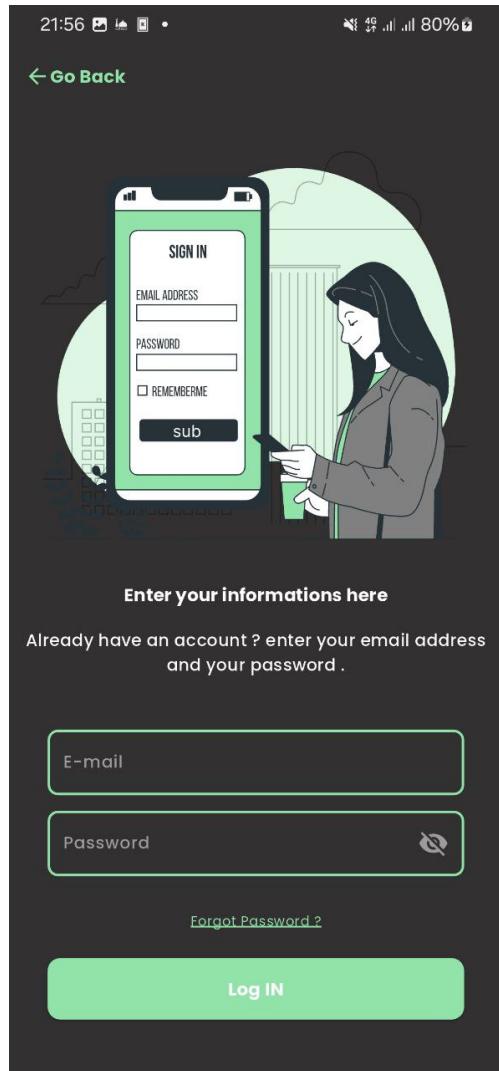


Figure 2.4: Login screen — Mobile application

After clicking **Submit**, the user is redirected to their mobile dashboard.

### Sign Up

Users can access the registration form by tapping the **Sign up** button:

- Username
- Email address
- Password
- For companies: phone number and activity sector

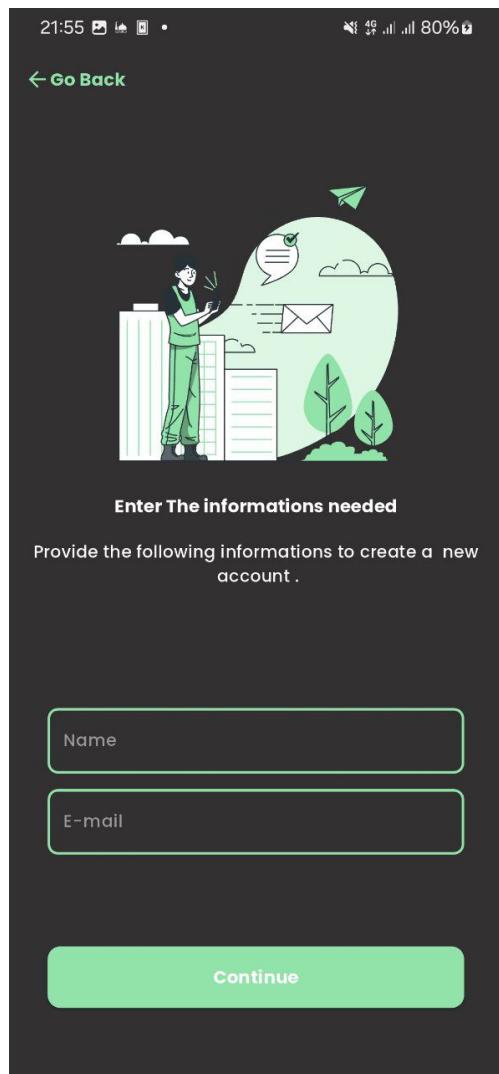


Figure 2.5: Registration screen1 — Mobile application

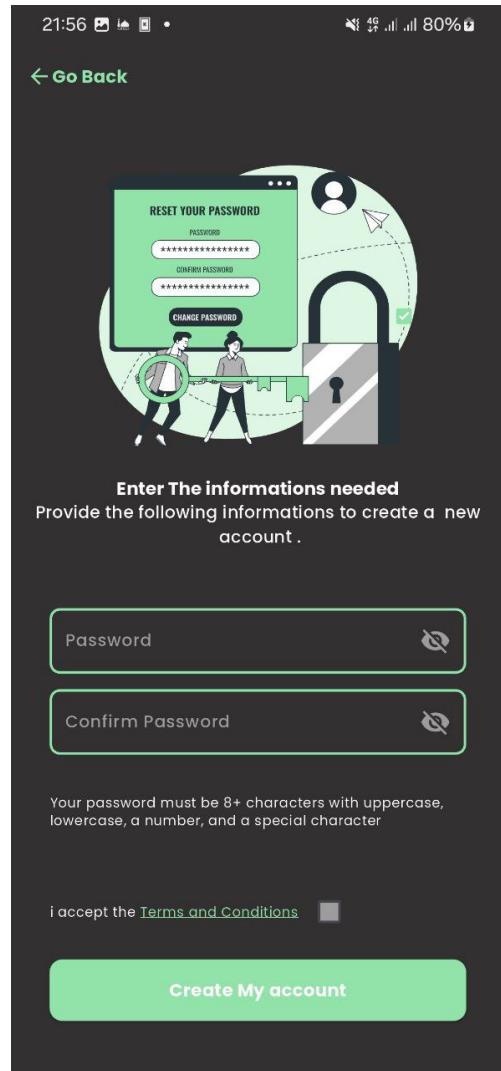


Figure 2.6: Registration screen2 — Mobile application

### Email Verification

The user receives an email containing a verification code. This code must be entered in the mobile app to validate and activate the account.

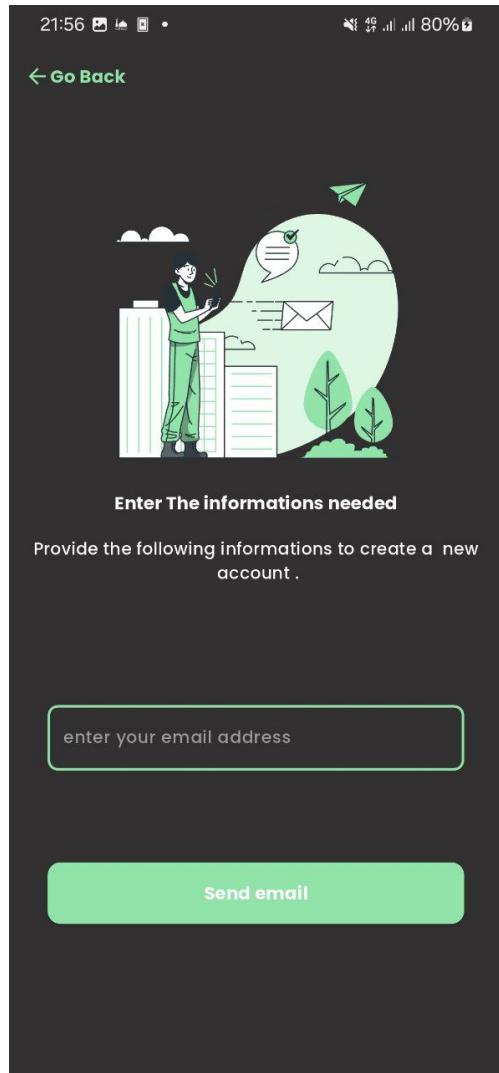


Figure 2.7: OTP code entry screen — Mobile application

### 2.1.3 User Types

- **Student (Client):** Can register, join teams, and apply to internship offers.
- **Company (Employer):** Can publish internship offers or technical challenges and manage applications.

# Chapter 3

## Home Page

### 3.1 Protected Home Page - web

Once authenticated, users are directed to a home screen tailored to their role — either Student or Company. This protected area gives users full access to platform functionalities and acts as the operational hub for all actions.

#### Student Dashboard — Routes and Features

- **Dashboard:** Overview of recent activities, progress, and system updates.
- **Opportunities:** View all internships and problem-solving offers posted by companies.
- **Suggested Posts:** Personalized internships and challenges based on the user's interests and profile.
- **Teams:** Allows students to create or join a team, view members, and collaborate on group applications.
- **Chat:** Enables real-time communication with between students and companies.
- **Saved Applied:** Displays all bookmarked opportunities and applications already submitted with their status.
- **Notifications:** System alerts regarding new opportunities, application updates, and chat messages.
- **Profile:** View and edit personal and academic details, skills, and previous experiences.

This layout provides a seamless experience for discovering, applying to, and managing internship or problem-based collaboration opportunities.

### **Company Dashboard — Routes and Features**

Companies have access to a streamlined version of the dashboard focusing on offer management and student communication:

- **Dashboard:** Summarized view of ongoing posts, candidate status, and recent activity.
- **Chat:** Communicate with applicants or project team members in real-time.

## **3.2 Protected Home Page - app**

## **3.3 Security and Role-Based Access**

These protected routes are only accessible after successful login and are guarded through secure route handling based on user role (student or company). Attempting to access a restricted page without appropriate permissions results in redirection to the login screen or a 403 error page.

# Chapter 4

## Dashboard

### 4.1 Dashboard - Web

#### 4.1.1 Student Dashboard — Web

Once a student clicks on the dashboard in the navBar, they are redirected to their personal dashboard, which acts as the central hub for tracking and managing their internship journey in the last month.

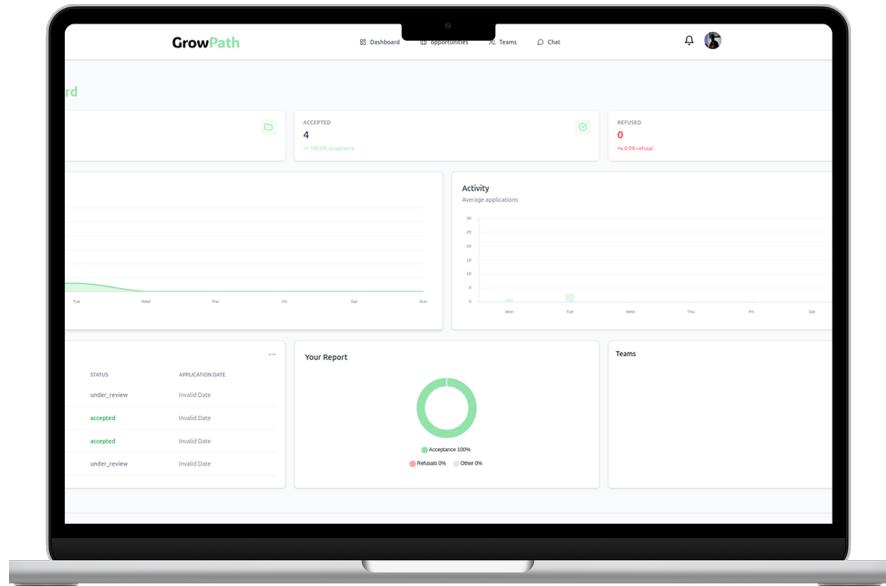


Figure 4.1: Student Dashboard — Web Interface

The dashboard presents a clean, intuitive layout and includes the following key sections:

- **Top Statistics Bar:**

- Total number of applications submitted
- Number of accepted applications
- Number of rejected applications

These metrics help the student quickly assess their current standing and application success rate.

- **Charts and Visual Insights:**

- An **Acceptance chart** that tracks application decisions over time.
- An **Activity chart** showing average applications per day.
- A **donut report chart** visualizing the acceptance/refusal breakdown in percentage.
- **Internship Tracker:** A table listing all tracked internship applications, including company name, status, and application date. This section helps students monitor their submissions and stay informed on responses.
- **Teams Section:** A summary view of the student's current teams. It allows students to create or manage teams directly from the dashboard.

#### 4.1.2 Company Dashboard — Web

The company dashboard serves as a central control panel, providing access to various management tools related to opportunity postings and student applications. It is divided into three main sections: Overview, Job Posts, and Applications.

##### 1. Overview Tab

The Overview displays essential statistics such as the total number of job posts, applications received, and accepted applications. It also includes:

- A graph showing the evolution of applications over time.
- A placeholder for the status distribution of applications.
- A table of recent application activity.

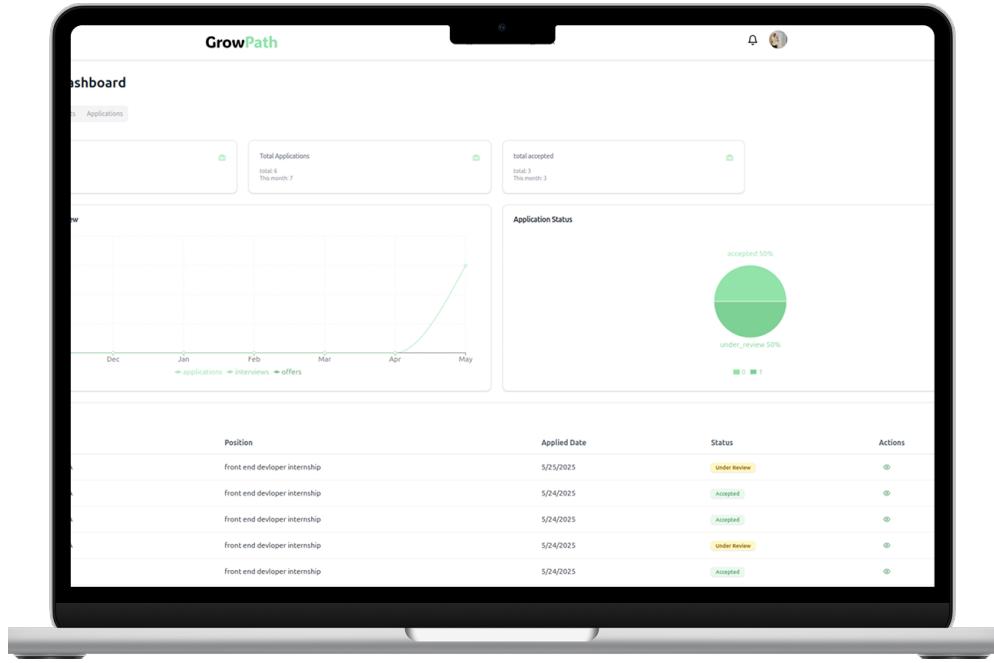


Figure 4.2: Company Dashboard – Overview Tab

## 2. Opportunity Posts Tab

This section displays a list of all opportunity posts created by the company. Each entry shows:

- Opportunity title and department.
- Location (onsite, hybrid, or remote).
- Type (internship or problem).
- Date posted and current application count.
- Status and quick actions menu.

Clicking the **Post New Job** button opens a dynamic form to create a new opportunity. The form includes fields such as:

- Title, Start Date, End Date
- Required Skills
- Description
- Internship or Problem Type
- Location Type (Onsite, Remote, Hybrid)

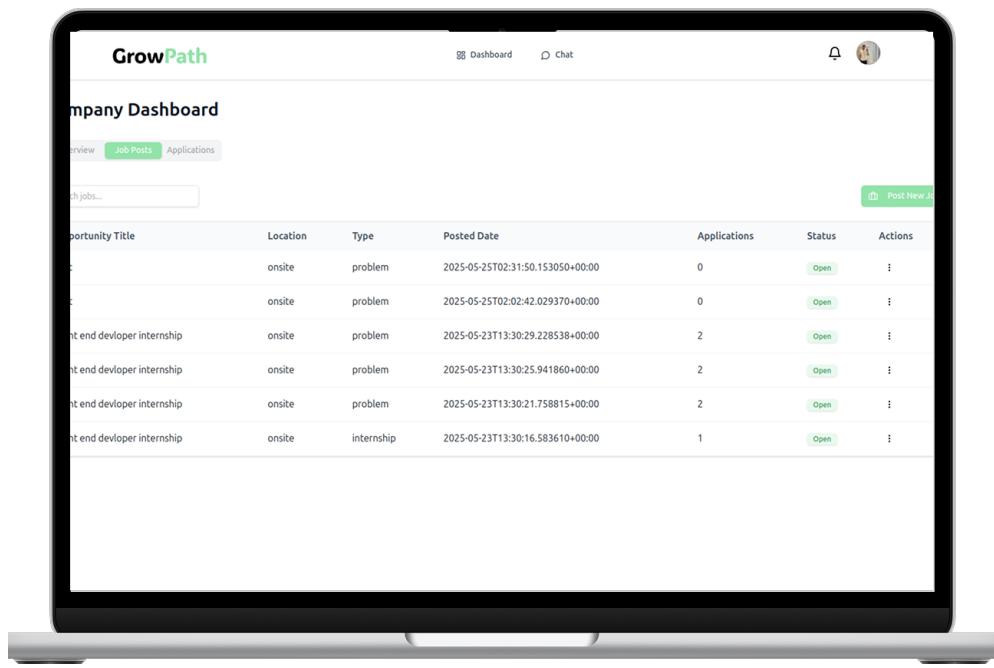


Figure 4.3: Company Dashboard – Create Opportunity

### 3. Applications Tab

This section allows companies to review and manage applications submitted by students. Key functionalities include:

- **View:** Access a list of applications with filter options.
- **Manage:** Accept, reject, or delete each application.
- **Details Page:** Clicking on an application's **view** button opens a dynamic page showing:
  - \* The student's proposal and uploaded documents.
  - \* Team members (if applicable).
  - \* Actions: Accept, Reject, or initiate a Chat with the student.

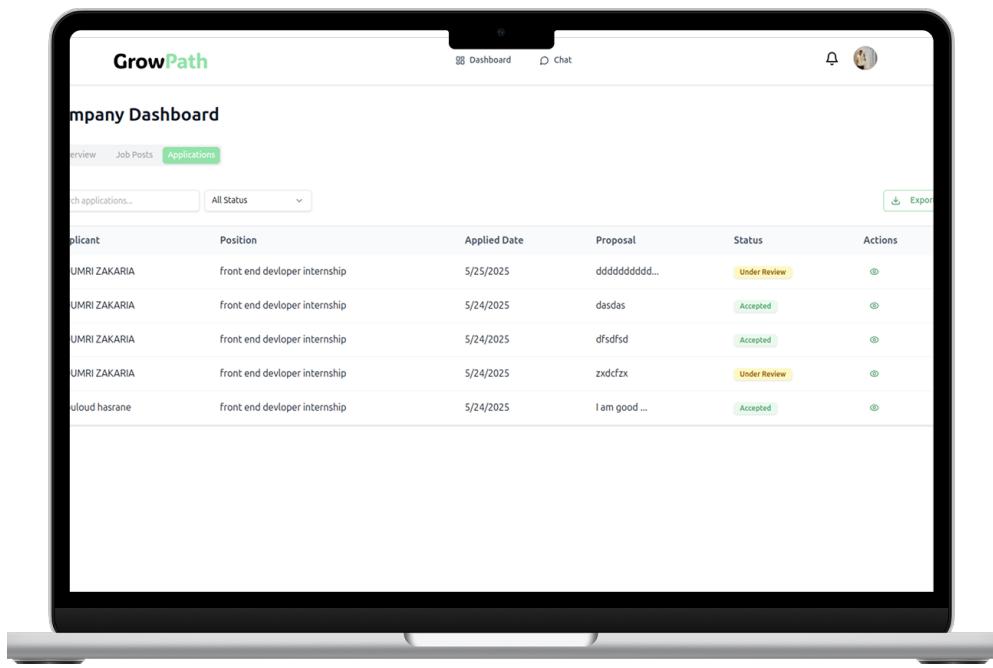


Figure 4.4: Company Dashboard – Applications Tab

# **Chapter 5**

## **Chat**

### **5.1 Messaging and Chat System - web**

#### **5.1.1 Chat Access Rules**

To maintain relevance and control in the communication process:

- Students can only initiate and engage in conversations with companies.
- This one-to-one messaging policy ensures focused and appropriate communication.
- Group chat functionality is under development and planned for a future release.

#### **5.1.2 Interface Structure**

The chat interface is split into two primary sections:

- **Main Chats Page (Conversation List and infos):** Displays a scrollable list of previous conversations with users. Each entry includes:
  - \* The user's name or company name
  - \* The last message snippet
  - \* A timestamp
- **Main Chat Page:** Shows the full conversation history with a selected user.  
It contains:
  - \* Profile image and header information

- \* A scrollable message feed
- \* An input bar to send messages
- \* All messages are currently limited to text only

### 5.1.3 Data Flow and Messaging Logic

Messages are stored in a backend database and are associated with sender and receiver identifiers. Each message includes:

- Sender ID
- Receiver ID
- Text content
- Timestamp

The chat system uses WebSocket (depending on configuration) to synchronize messages in real time. This ensures that users can chat without refreshing or navigating away from the interface.

Figure 5.1: Messaging Interface Showing Sidebar and Text Chat

### 5.1.4 Future Enhancements

To enhance communication, the following features are planned:

- Group messaging (for teams, project discussions, and collaborative applications)
- Support for multimedia messages (images, documents, etc.)
- Notification system for new messages

## 5.2 Messaging and Chat System - app

The platform integrates a basic real-time chat system that facilitates direct communication between students and companies. This feature is implemented consistently across both the web and mobile applications using the same backend logic, ensuring synchronized communication regardless of the platform.

### 5.2.1 Chat Access Rules

To maintain relevance and control in the communication process:

- Students can only initiate and engage in conversations with companies.
- Companies can only message students.
- This one-to-one messaging policy ensures focused and appropriate communication.
- Group chat functionality is under development and planned for a future release.

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- **Main convos Page (Conversation List and infos):** Displays a scrollable list of previous conversations with users. Each entry includes:
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### 5.2.3 Data Flow and Messaging Logic

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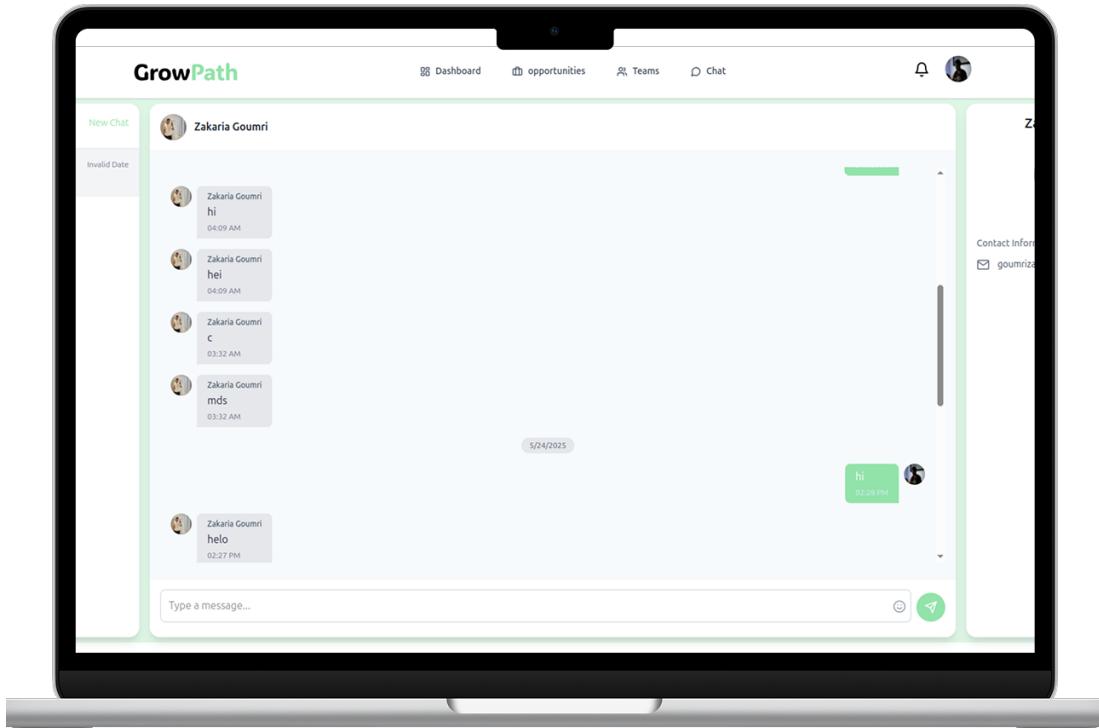


Figure 5.2: Messaging Interface Showing Previous Chats List

#### 5.2.4 Future Enhancements

To enhance communication, the following features are planned:

- Group messaging (for teams, project discussions, and collaborative applications)
- Support for multimedia messages (images, documents, etc.)
- Notification system for new messages

# Chapter 6

# Opportunities

## 6.1 Opportunities Page - web

The **Opportunities Page** provides students with access to a variety of internships and technical challenges posted by companies. It allows exploration, filtering, and applying to relevant opportunities, while also offering tools for saving posts for future consideration.

### Search and Discovery

A dynamic search bar is available at the top of the page. It enables users to search based on:

- Post Title
- Company Name

This helps students quickly locate specific opportunities or browse all postings from a company.

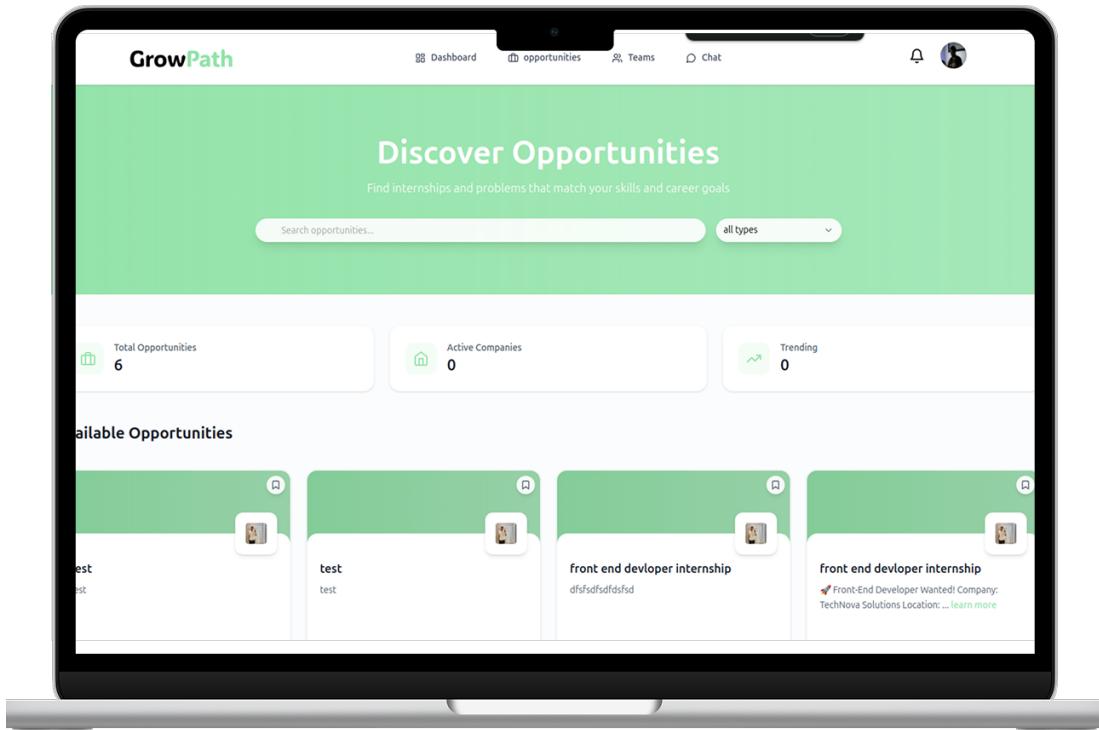


Figure 6.1: Search bar for filtering posts by title or company

### 6.1.1 Post Interaction and Save Feature

Each opportunity card provides interaction options:

- **View Details:** Clicking redirects to a detailed post page.
- **Save Post:** Students can save any opportunity to a personal list for future review. The saved state is persistent on the saved and applied application.

### 6.1.2 Post Details and Application

Clicking on a post opens a dynamic route containing:

- **Overview:** Title, description, company, type (internship/problem), location (onsite, hybrid, remote), and skill tags.
- **Application Section:**
  - \* Apply as an individual or with a team.
  - \* Enter a proposal via a multiline text area.
  - \* Upload supporting documents (e.g., CV, motivation letter).

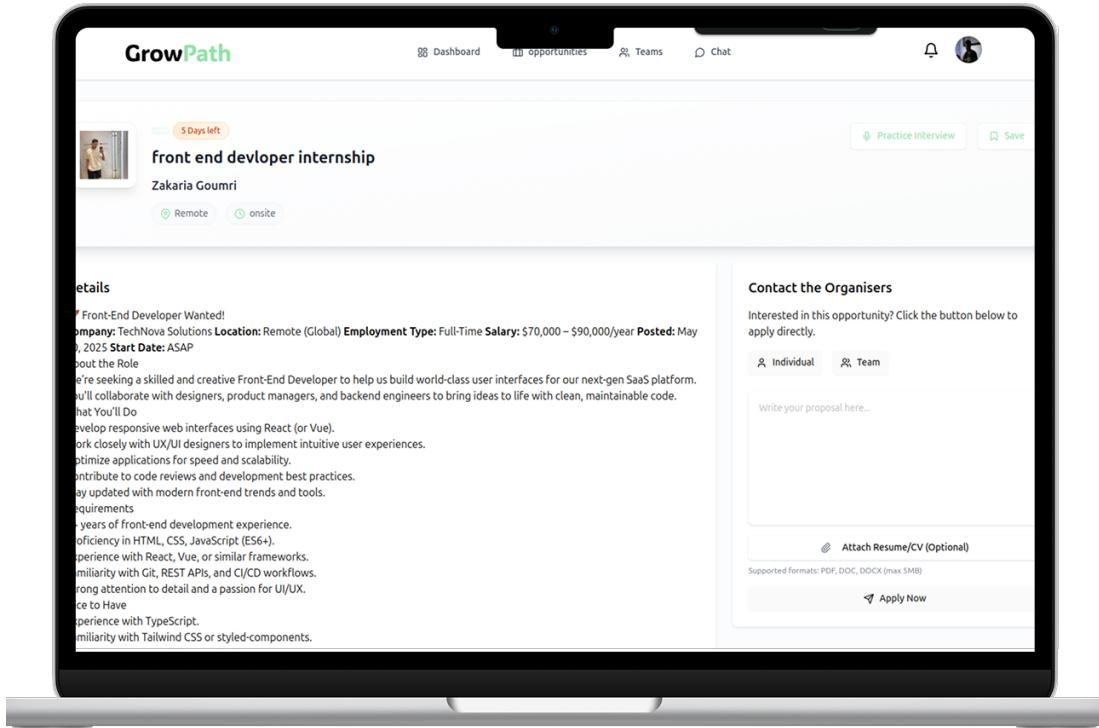


Figure 6.2: Detailed view of a selected opportunity with application form

### 6.1.3 Application Submission and Notification

Once the student completes the form and clicks **Apply Now**:

- The application is stored in the system.
- The student receives a notification about whether the application was accepted, rejected, or is under review.
- The post is automatically tracked in their applications list.

## 6.2 Opportunities Page - app

The **Opportunities Page** provides students with access to a variety of internships and technical challenges posted by companies. It allows exploration, filtering, and applying to relevant opportunities, while also offering tools for saving posts for future consideration.

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screenshots/opportunities\_search.png

Figure 6.3: Search bar for filtering posts by title or company

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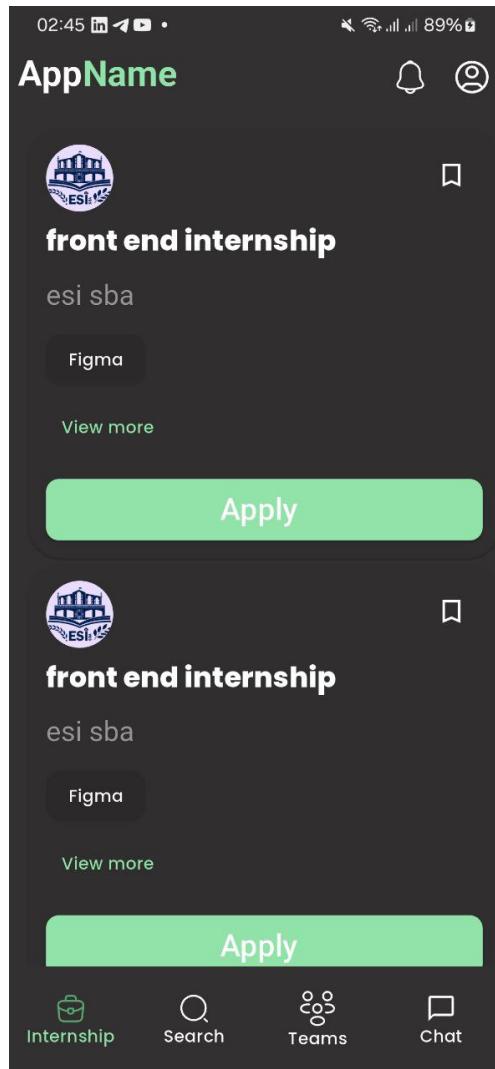


Figure 6.4: Save button available on each opportunity card

### 6.2.2 Post Details and Application

Clicking on a post opens a dynamic route containing:

- **Overview:** Title, description, company, type (internship/problem), location (onsite, hybrid, remote), and skill tags.
- **Application Section:**
  - \* Apply as an individual or with a team.
  - \* Enter a proposal via a multiline text area.

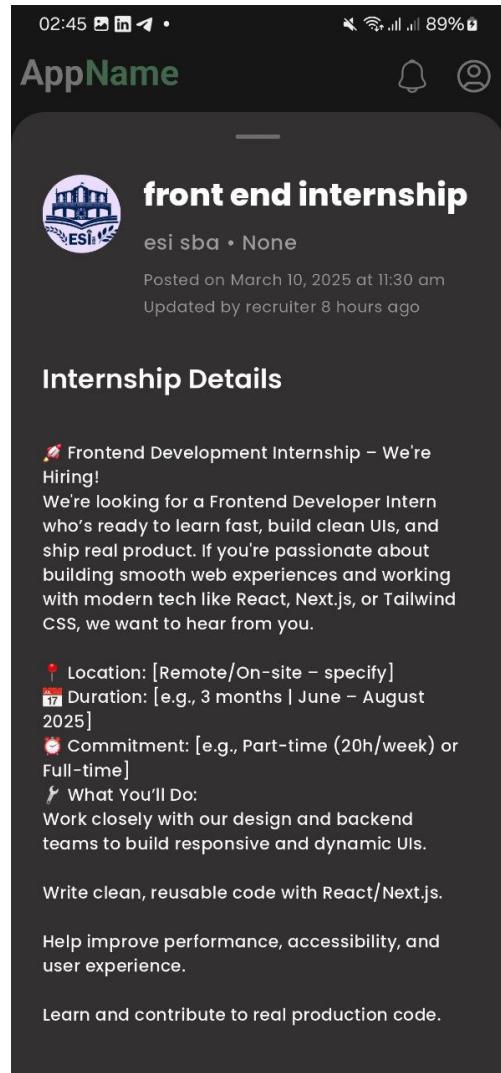


Figure 6.5: Detailed view of a selected opportunity with application form

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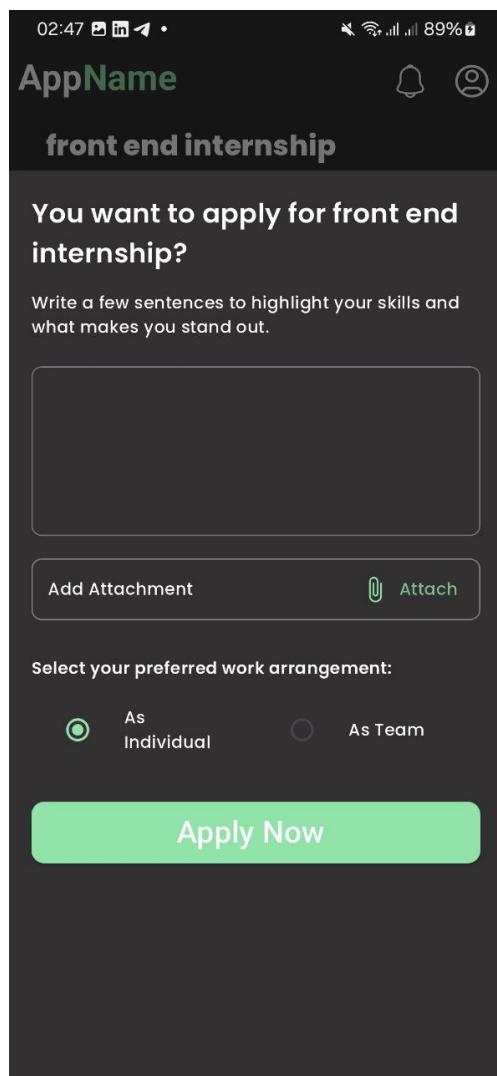


Figure 6.6: Application submission confirmation and notification

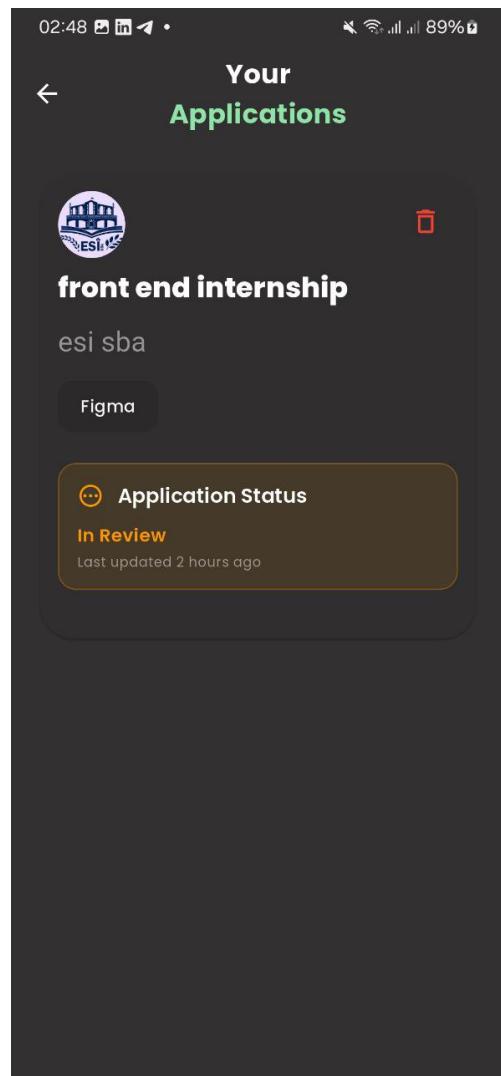


Figure 6.7: Applications Tracking List

# Chapter 7

## Teams Management

### 7.1 Team management - web

The Teams module allows students to collaborate by forming teams, managing members, and applying jointly to opportunities. This feature enhances teamwork in problem-solving and internship projects.

#### 7.1.1 Teams Overview Page

When a student navigates to the **Teams** route, they are redirected to the Teams Overview Page. This view consists of:

- **My Teams:** A paginated list of all teams the student is a member of.
- **Sent Invitations:** List of pending invitations the student has sent to others.
- **Received Invitations:** Incoming invitations from other team leaders that the student can accept or reject.

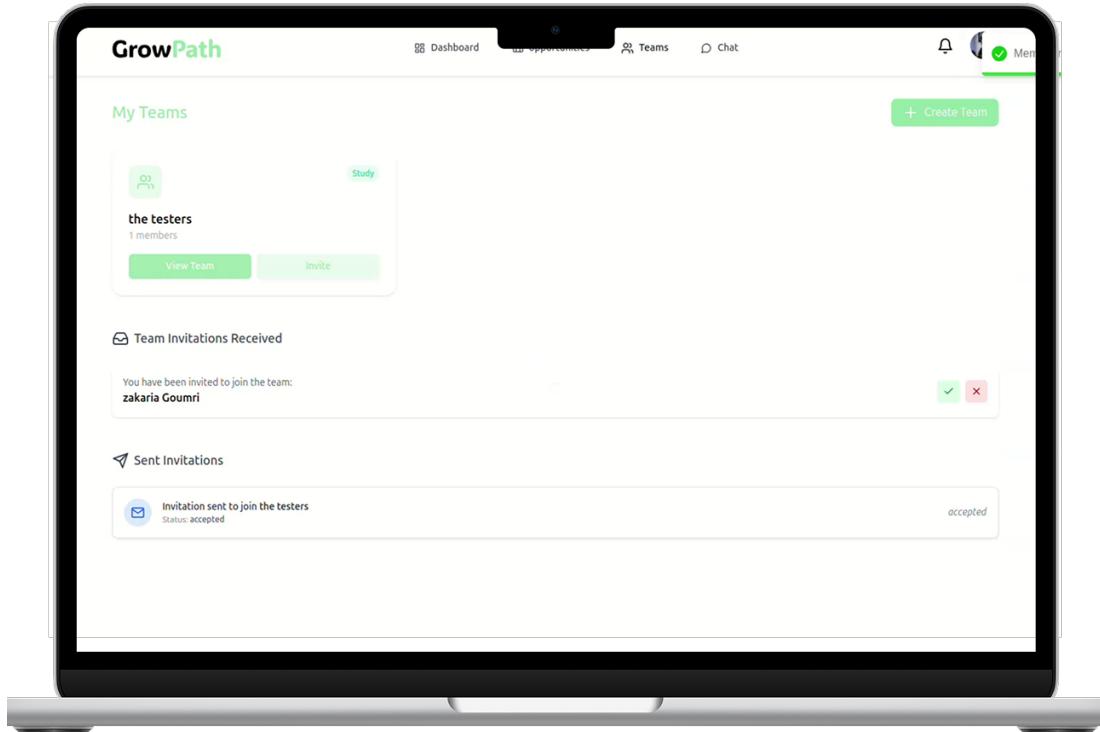


Figure 7.1: Teams Overview Page with pagination and invitation tabs

### 7.1.2 Creating a New Team

By clicking the **Create Team** button, the student is redirected to a team creation form containing the following fields:

- **Team Name**
- **Team Category** (e.g., AI, Web Dev, Embedded, etc.)
- **Team Description**
- **Team Skills** (multi-select or tag input)
- **Invite Members by Email** (one or multiple emails)

Upon submission, the system validates the inputs and notifies the user of successful creation or failure.

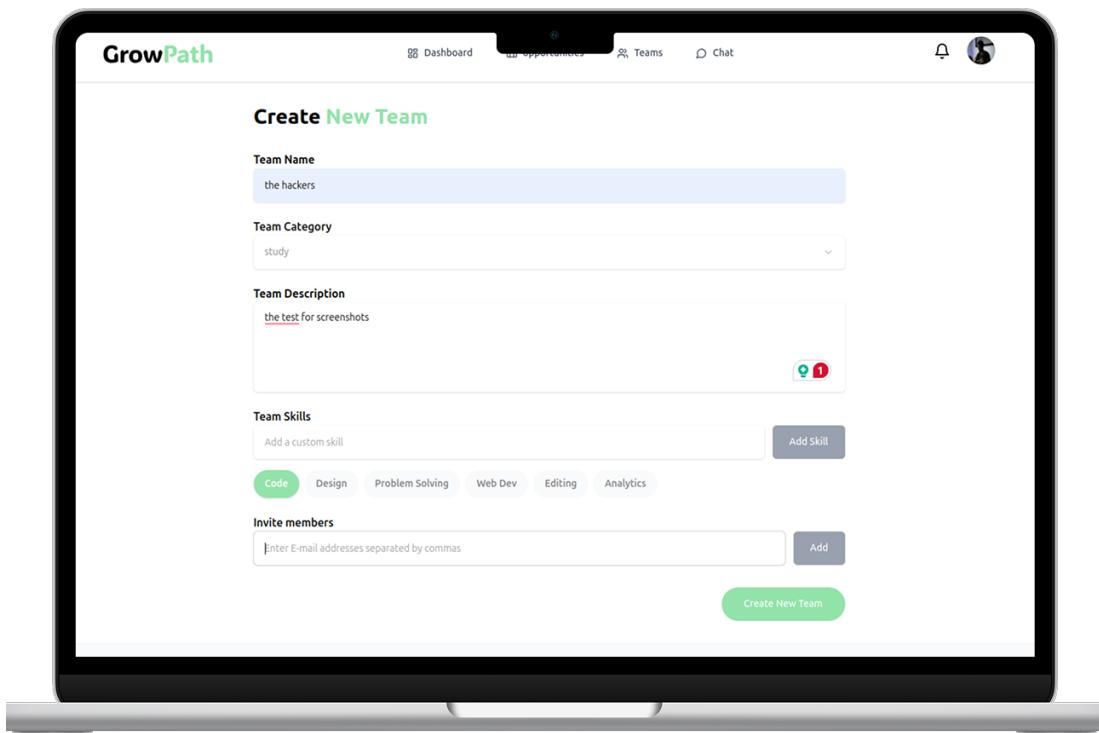


Figure 7.2: Team creation form with fields and email invitations

## Team Invitation Management

Team leaders can invite multiple users by email to join their team. Invitations are listed in both the sender's and receivers' dashboards.

- **Invitations are tracked with status:** pending, accepted, or rejected.
- **Notifications** are triggered for both sender and receiver based on the action taken.

### 7.1.3 Viewing Team Details

Clicking on the **View Team** button redirects the user to a detailed page for that team. The content of this page depends on whether the student is a leader or a regular member.

- **General Information:** Team name, category, description, and list of team skills.
- **Members List:** Including their names, emails, and roles.
- **Leader Actions:**

- \* Kick Members
  - \* Delete Team
- **Member Actions:**
- \* Leave Team

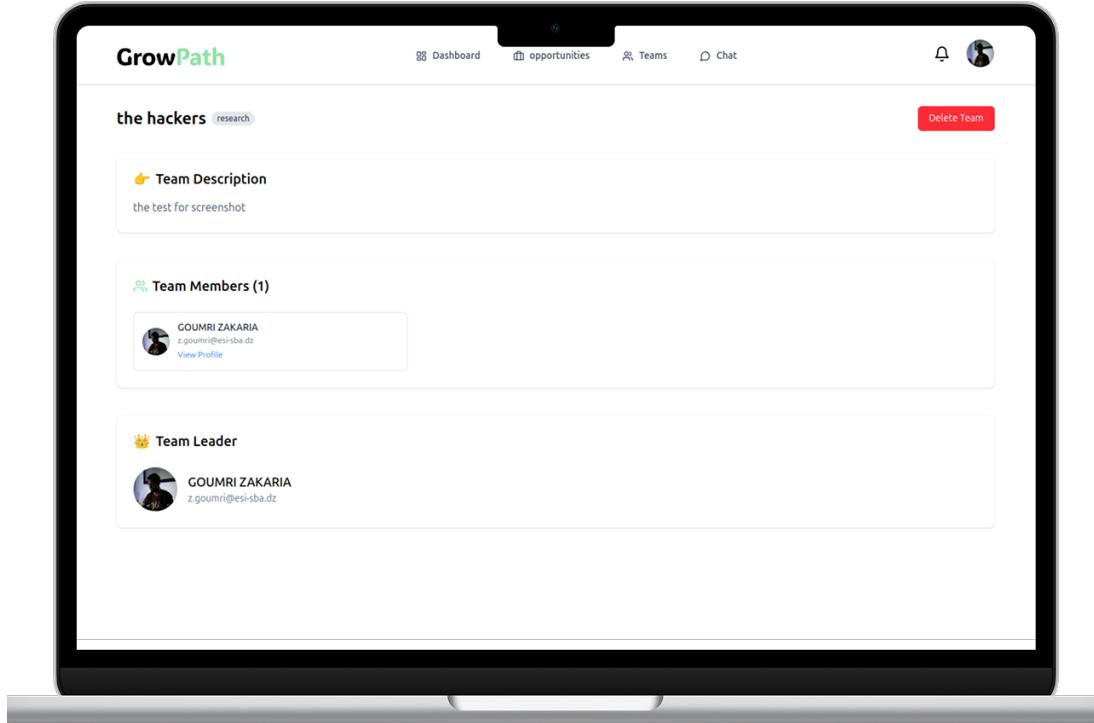


Figure 7.3: Team Details Page showing members and available actions

## 7.2 Team management - app

The Teams module allows students to collaborate by forming teams, managing members, and applying jointly to opportunities. This feature enhances teamwork in problem-solving and internship projects.

### 7.2.1 Teams Overview Page

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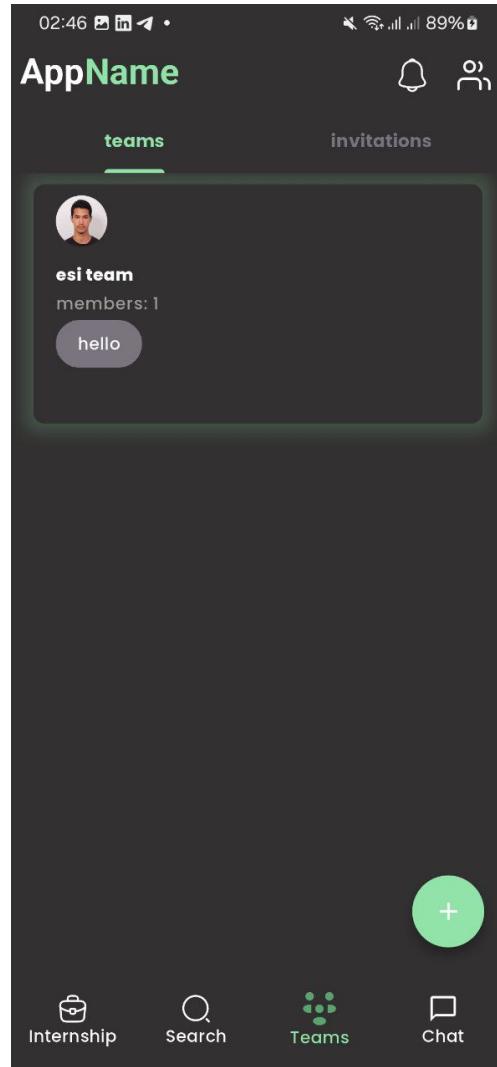


Figure 7.4: Teams Overview Page with pagination and invitation tabs

### 7.2.2 Creating a New Team

By clicking the **Create Team** button, the student is redirected to a team creation form containing the following fields:

- **Team Name**
- **Team Category** (e.g., AI, Web Dev, Embedded, etc.)
- **Team Description**

- Team Skills (multi-select or tag input)
- Invite Members by User Name With Search

Upon submission, the system validates the inputs and notifies the user of successful creation or failure.

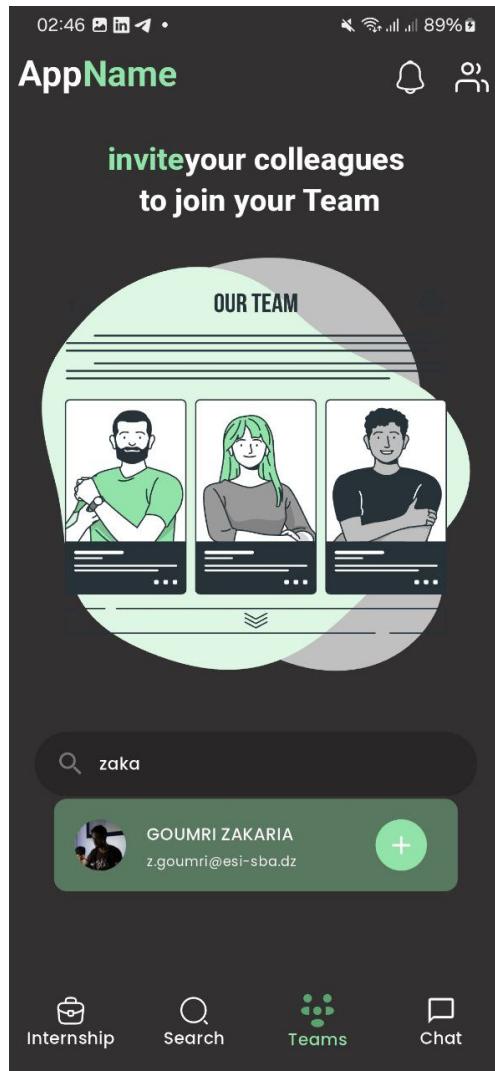


Figure 7.5: Team creation form with user Search Invites

## Team Invitation Management

Team leaders can invite multiple users by email to join their team. Invitations are listed in both the sender's and receivers' dashboards.

- **Invitations are tracked with status:** pending, accepted, or rejected.

- **Notifications** are triggered for both sender and receiver based on the action taken.

### 7.2.3 Viewing Team Details

Clicking on the **View Team** button redirects the user to a detailed page for that team. The content of this page depends on whether the student is a leader or a regular member.

- **General Information:** Team name, category, description, and list of team skills.
- **Members List:** Including their names, emails, and roles.
- **Leader Actions:**
  - \* Kick Members
  - \* Delete Team
- **Member Actions:**
  - \* Leave Team

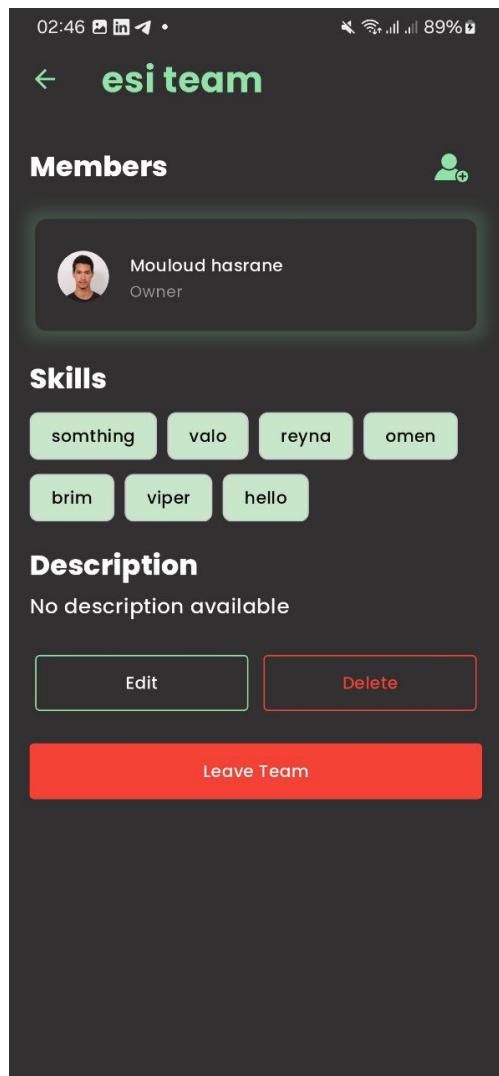


Figure 7.6: Team Details Page showing members and available actions

# Chapter 8

## Notifications

### 8.1 Notification System - web

The platform includes a comprehensive notification system designed to keep users informed about relevant events such as application updates, team invitations, and chat messages. The system ensures timely delivery, error handling, and intuitive user feedback using a hybrid of backend services and frontend components.

#### 8.1.1 Architecture and Technologies

- **Gemini API Key:** Integrated to intelligently handle edge cases and errors, and to select the most relevant response and wording for each type of notification event.
- **Firebase Cloud Messaging (FCM):**
  - \* Each user is registered with a unique FCM token.
  - \* Tokens are stored and refreshed securely to ensure push message delivery.
- **React Toastify:**
  - \* Provides instant, non-blocking popup messages for events such as "Application Submitted", "Team Invitation Received", etc.
  - \* Toasts automatically dismiss after a few seconds and are styled according to the notification type (info, success, warning, error).

### **8.1.2 User Interface**

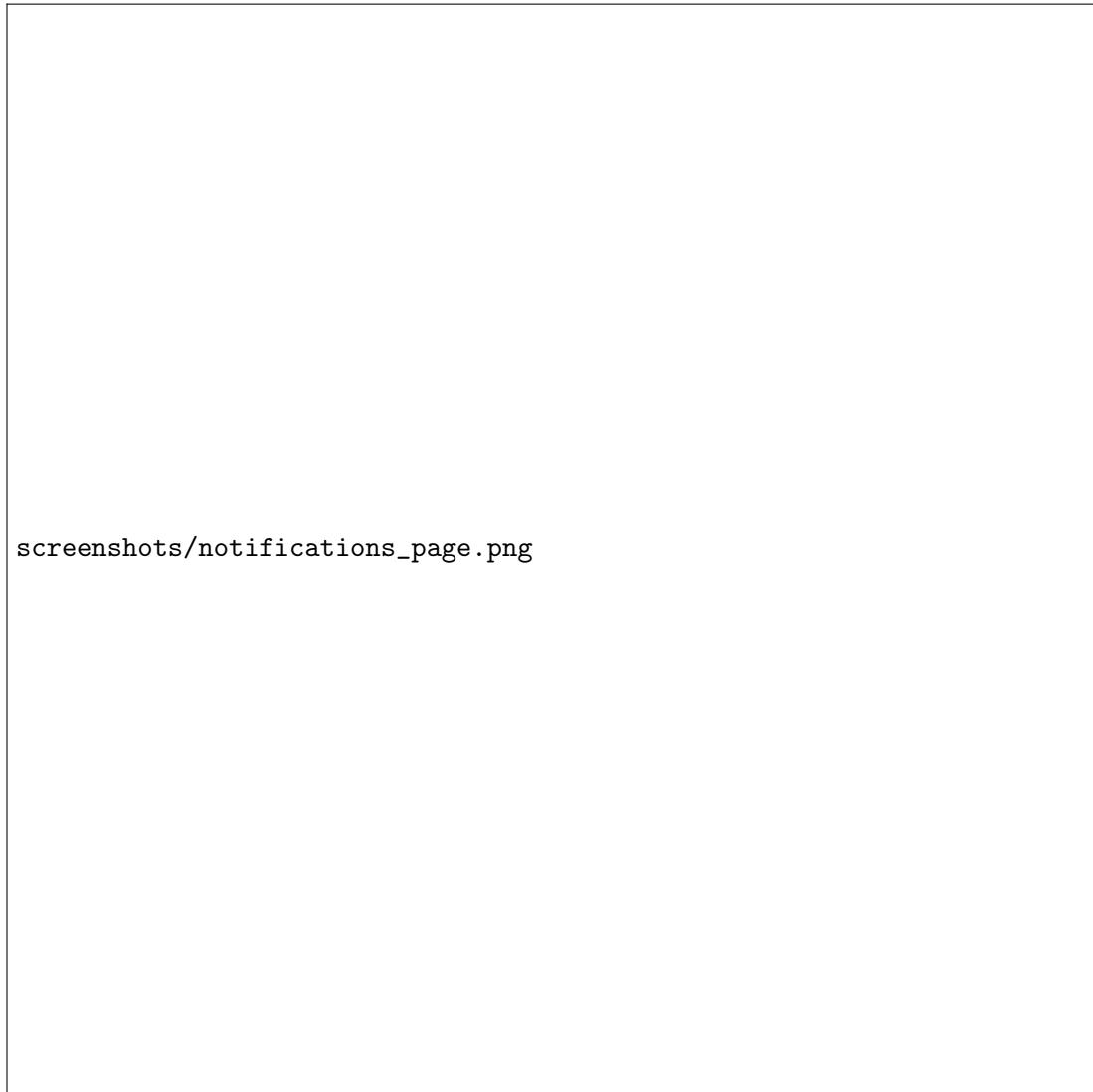
The notification system is presented to the user via:

– **Notification Bell Icon:**

- \* Located in the top navigation bar.
- \* Displays the most recent notifications in a dropdown on click.
- \* Unread notifications are visually distinguished.

– **Notifications Page:**

- \* Accessible through the bell dropdown or sidebar.
- \* Displays notifications over an extended period, grouped by type or time.
- \* Includes pagination or infinite scroll.



screenshots/notifications\_page.png

Figure 8.1: Full notifications page view with filtering and pagination

– **Toast Notifications:**

- \* Triggered for real-time feedback like successful form submissions, message deliveries, and errors.
- \* Appears in the top-right corner and disappears automatically after a timer with animations.

### 8.1.3 Use Cases

- New message received from company or student.
- Application status updated (accepted, rejected, reviewed).

- New team invitation received or accepted.
- Team member joined or left.

# Chapter 9

# Profile

## 9.1 User Profile - app

### 9.1.1 Profile Overview

The user profile is divided into the following sections:

- **About Me** – A short description that the user can edit to highlight their personal background or professional interests.
- **Experiences** – Automatically updated by the system as the user engages with internships or project-based problems. These entries include company, title, duration, and role.
- **Education** – Editable by the user via a dedicated popup form.
- **Skills** – Tags representing the student's technical or soft skills.
- **Resume** – Upload and display the user's current resume.

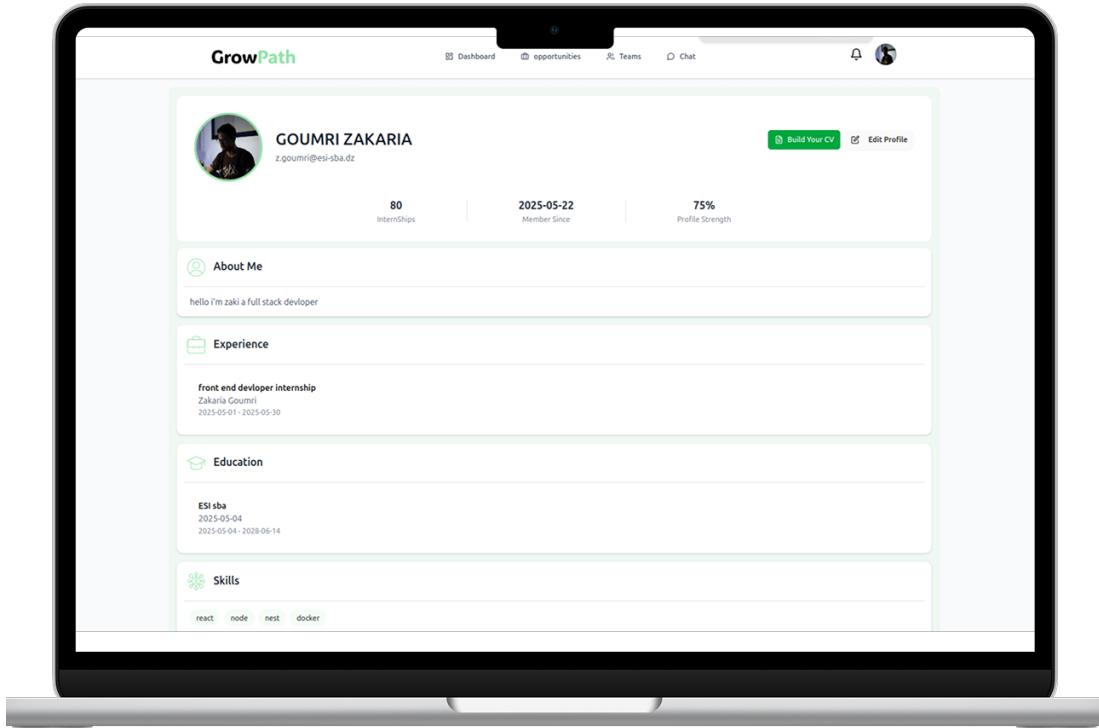


Figure 9.1: Profile overview with About Me, Experiences, Education, and Skills

## Editing Education

The Education section allows students to add academic qualifications. When the user clicks the “+” button, a modal popup appears with the following fields:

- **Degree**
- **Institution**
- **Start Date**
- **End Date**

Upon submission, the entry is added to the user’s education list and reflected in the profile page immediately.

### 9.1.2 Skills and Resume Upload

- **Skills** are added through a tag input, allowing the student to list technologies or areas of expertise.
- **Resume Upload** supports standard formats (PDF, DOCX) and updates the student’s record for company access.

## **Company Profile**

Currently, company profiles are intentionally left empty and are not editable via the platform interface. Future updates may include company information fields such as website, description, and areas of interest.



Figure 9.2: Empty placeholder for company profiles

## **9.2 User Profile - app**

The platform provides a comprehensive profile management section tailored for students and companies. It allows individuals to present their background, track experiences, and manage educational history.

### 9.2.1 Profile Overview

The user profile is divided into the following sections:

- **About Me** – A short description that the user can edit to highlight their personal background or professional interests.
- **Experiences** – Automatically updated by the system as the user engages with internships or project-based problems. These entries include company, title, duration, and role.
- **Education** – Editable by the user via a dedicated popup form.
- **Skills** – Tags representing the student's technical or soft skills.
- **Resume** – Upload and display the user's current resume.

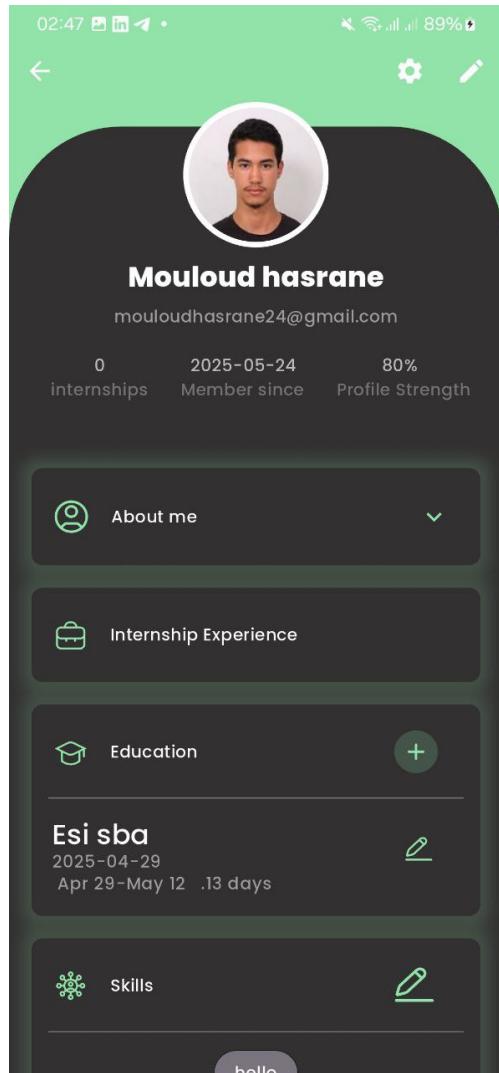


Figure 9.3: Profile overview with About Me, Experiences, Education, and Skills

### Editing Education

The Education section allows students to add academic qualifications. When the user clicks the “+” button, a modal popup appears with the following fields:

- **Degree**
- **Institution**
- **Start Date**
- **End Date**

Upon submission, the entry is added to the user’s education list and reflected in

the profile page immediately.



screenshots/add\_education\_modal.png

Figure 9.4: Modal popup for adding new education entry

### 9.2.2 Skills and Resume Upload

- **Skills** are added through a tag input, allowing the student to list technologies or areas of expertise.
- **Resume Upload** supports standard formats (PDF, DOCX) and updates the student's record for company access.



screenshots/skills\_resume\_section.png

Figure 9.5: Skills and Resume upload section

## Company Profile

Currently, company profiles are intentionally left empty and are not editable via the platform interface. Future updates may include company information fields such as website, description, and areas of interest.