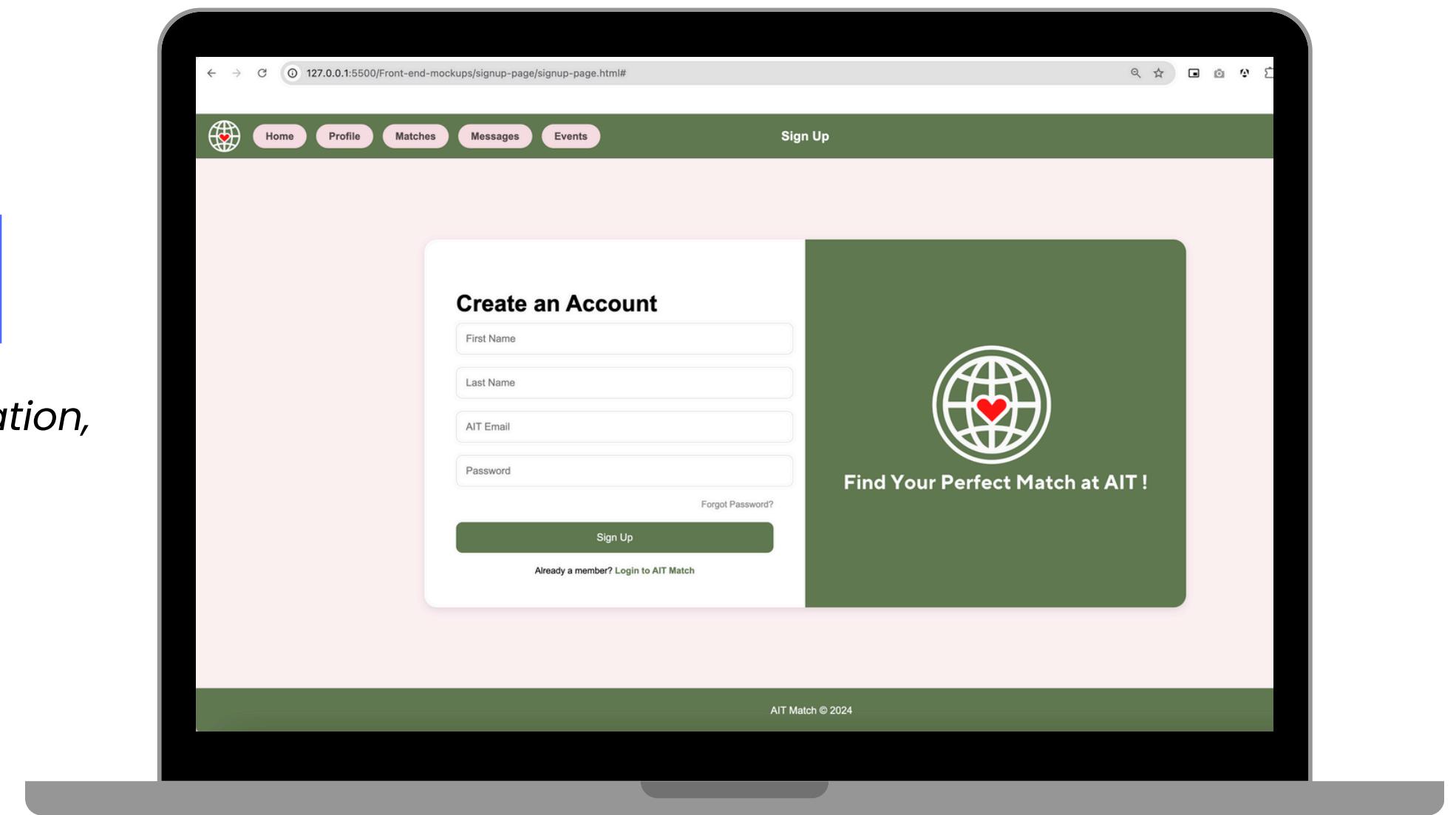


# AIT MATCH

*AIT Match – where social interactions, academic collaboration, and meaningful connections come together. Designed specifically for AIT students. AIT Match is here to help you connect, collaborate, and build lasting relationships in one balanced platform.*

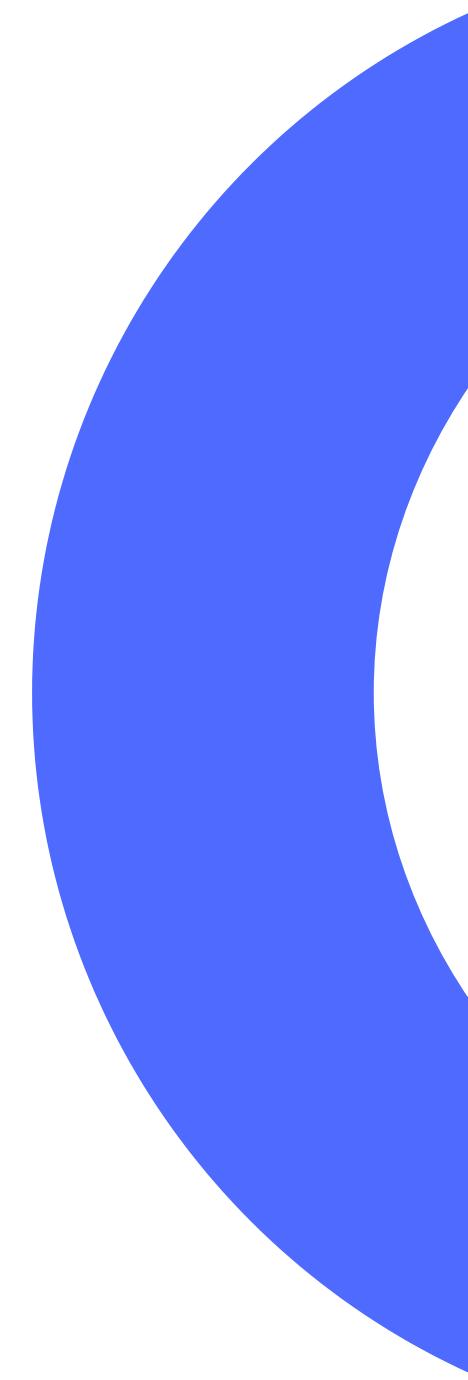




U R L L I N K



**192.41.170.201:3333/**



# AGENDA

- 1. *Introduction*
- 2. *Technical Functionality - User/Admin*
- 3. *Design and Usability - User/Admin*
- 4. *Security / Test Results*
- 5. *User Feedbacks and Comments*
- 6. *Conclusion / Challenges / Future work*

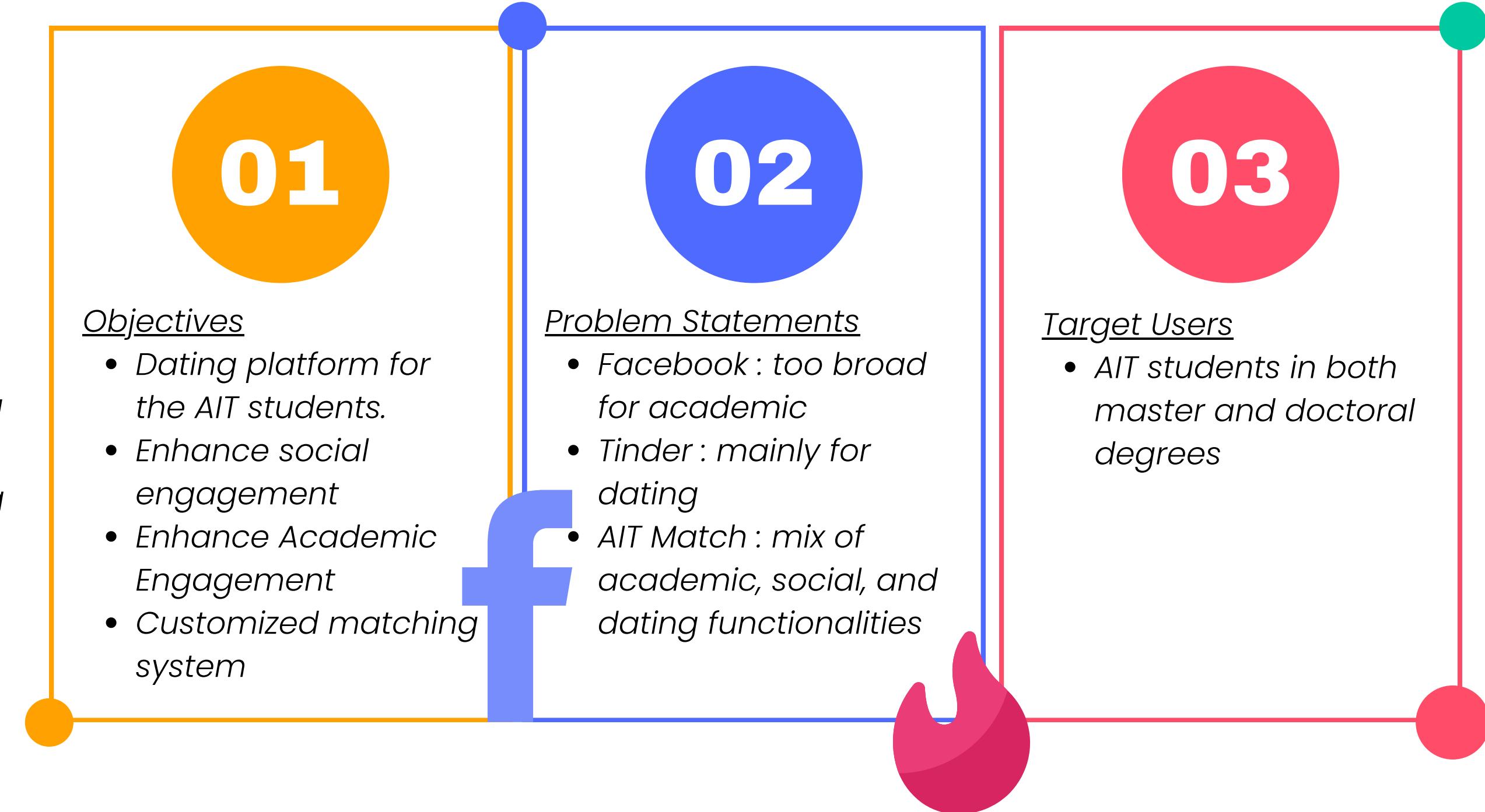


# 1. Introduction



## INTRODUCTION

AIT Match helps AIT students connect for social, academic, and personal interactions. With a matching system, it makes finding the right connections easy, enhancing student life at AIT.



# 1. Introduction



The image shows a composite view of the Tinder app. On the left, a vertical list of profile settings is visible, each with an icon and a 'Select >' button. The categories include Education, Family Plans, COVID Vaccine, Personality Type, Communication Style, Love Style, Blood Type, Pets, Drinking, Smoking, Cannabis, Workout, Dietary Preference, Social Media, and Sleeping Habits. At the top of this list is the Tinder logo. On the right, a yellow rectangular overlay for 'tinder GOLD' is displayed. It features the text 'See more profiles that match your preferences with Tinder Gold™.' and a 'Select a plan' section. Two options are shown: 'Popular 1 Week' at THB 134.00/wk and '1 Month' at THB 67.50. Below these, a note states 'Included with Tinder Gold™' followed by two checked-off benefits: 'Unlimited Likes' and 'See Who Likes You'. A 'Continue' button is at the bottom. A large red flame graphic is partially visible on the right side of the screen.

- Education Select >
- Family Plans Select >
- COVID Vaccine Select >
- Personality Type Select >
- Communication Style Select >
- Love Style Select >
- Blood Type Select >
- Pets Select >
- Drinking Select >
- Smoking Select >
- Cannabis Select >
- Workout Select >
- Dietary Preference Select >
- Social Media Select >
- Sleeping Habits Select >

**tinder GOLD**

See more profiles that match your preferences with Tinder Gold™.

Select a plan

Popular

**1 Week** THB 134.00/wk

1 Month THB 67.50

Included with Tinder Gold™

✓ Unlimited Likes

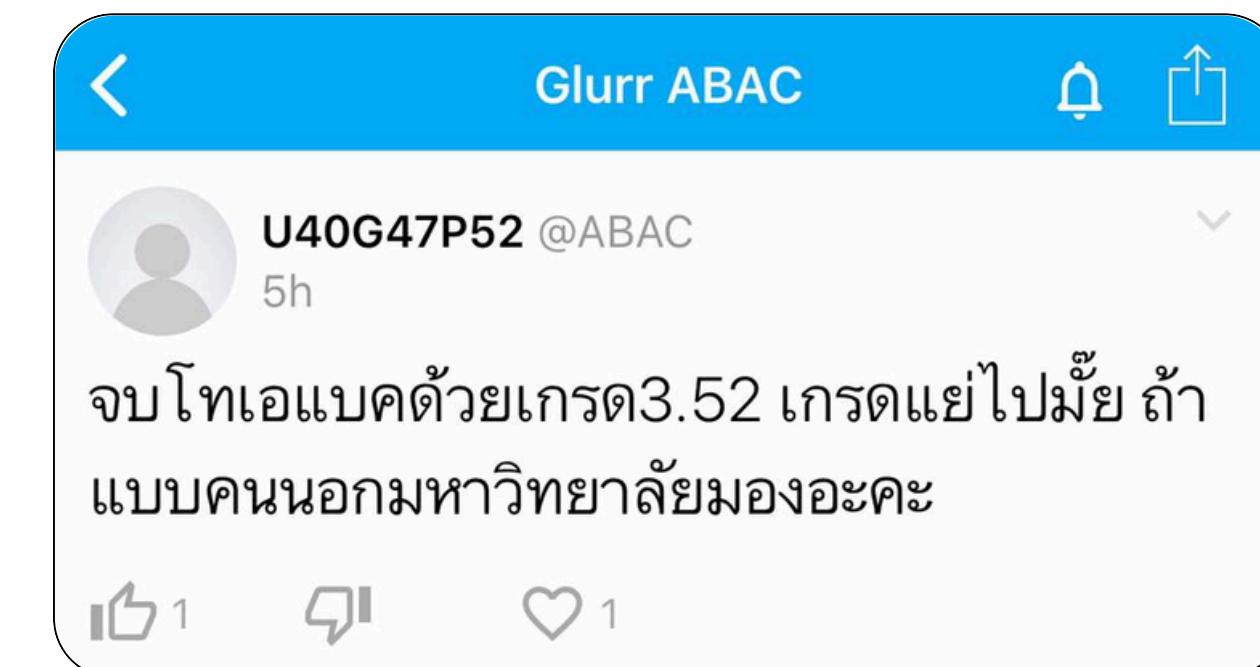
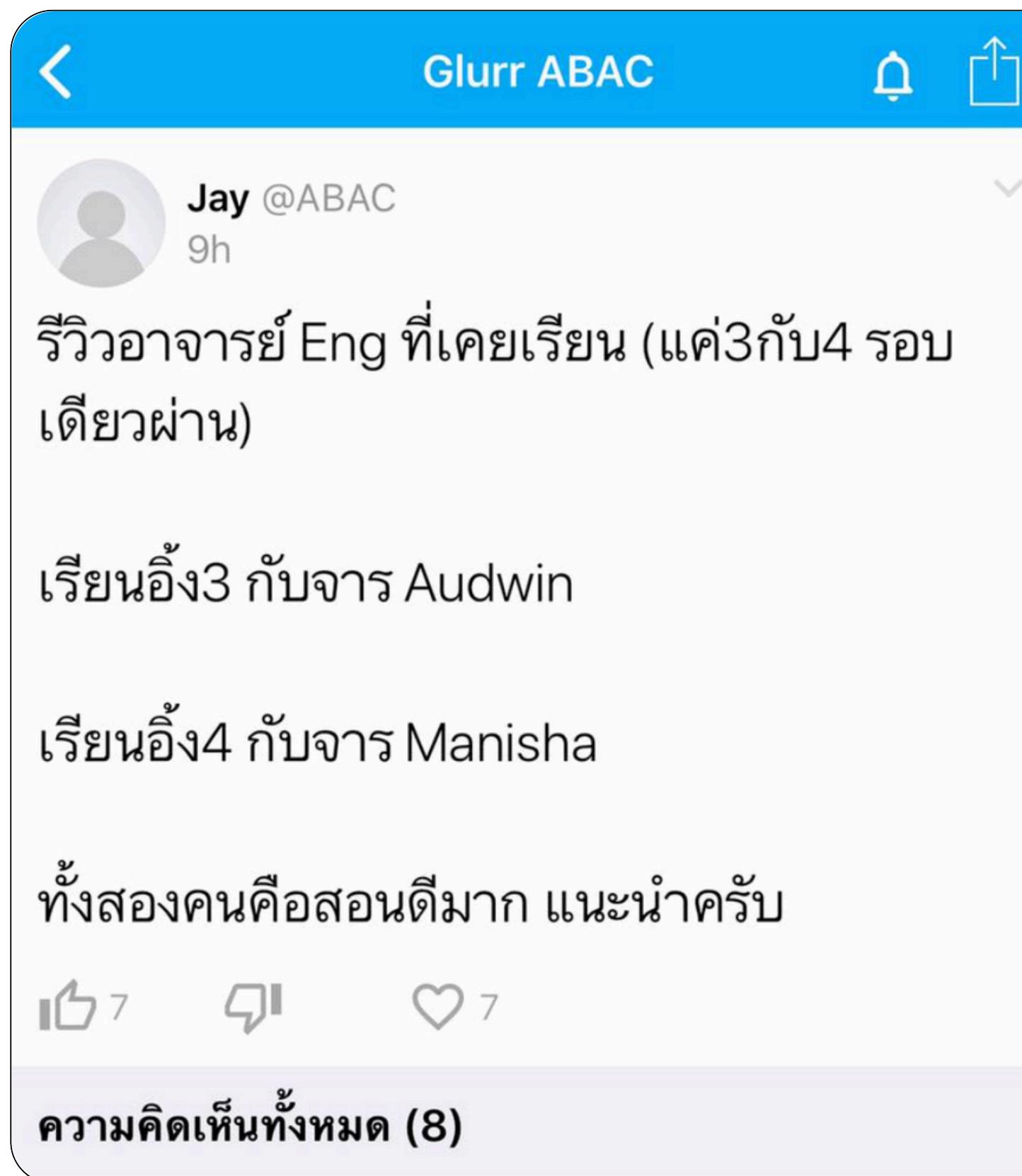
✓ See Who Likes You

By tapping Continue, you will be charged and your subscription will renew for the same price and package length until you cancel via Account Settings, and you agree to our [Terms](#)

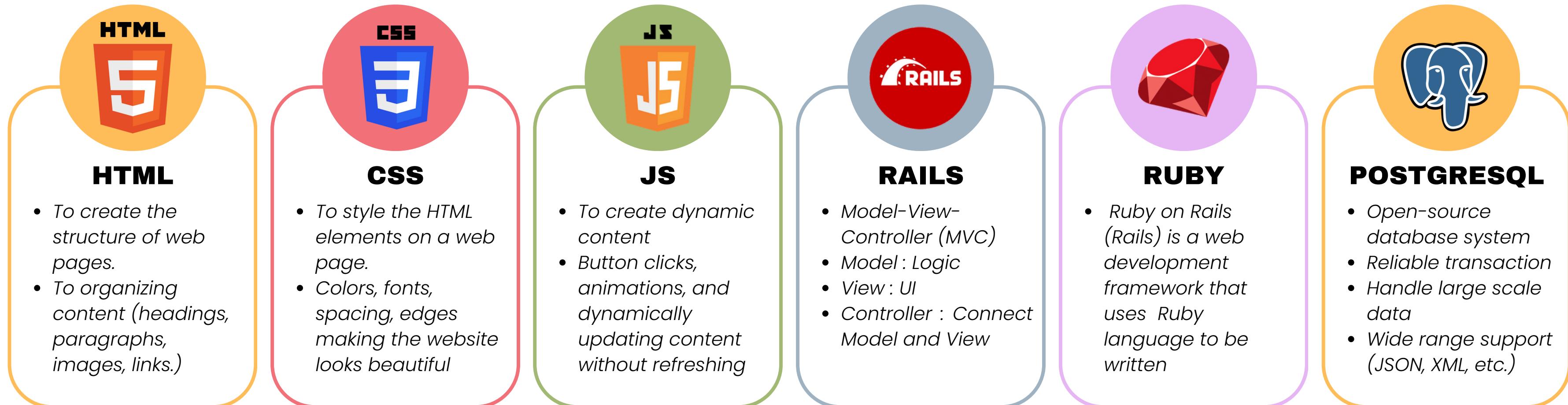
**Continue**

# 1. Introduction

● ● ●

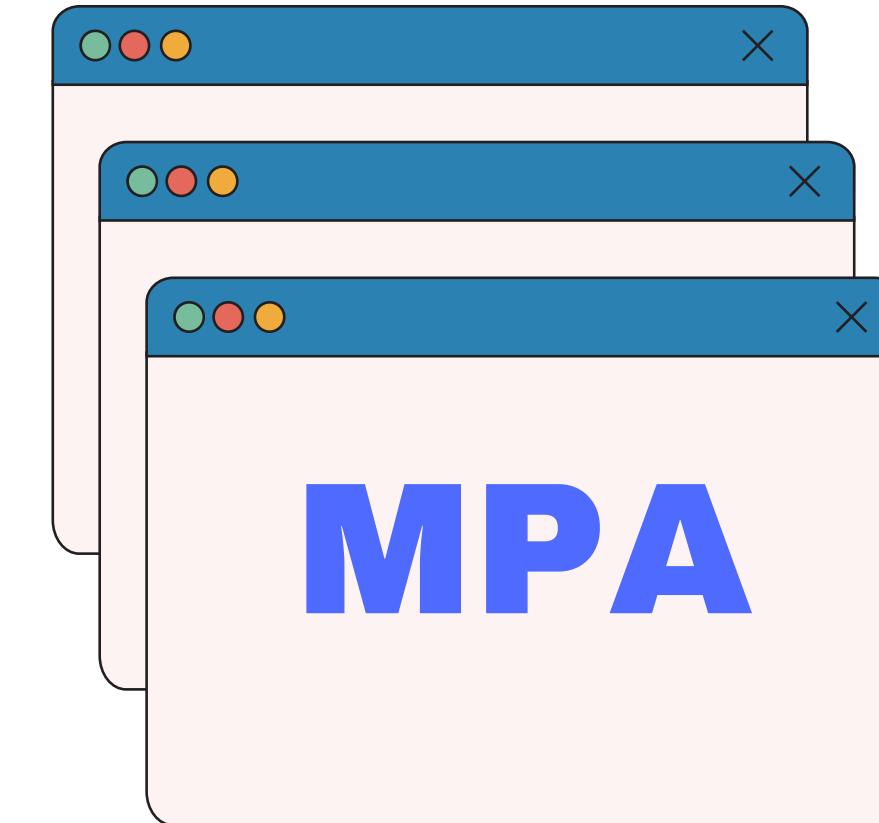


# RUBY ON RAILS STACK



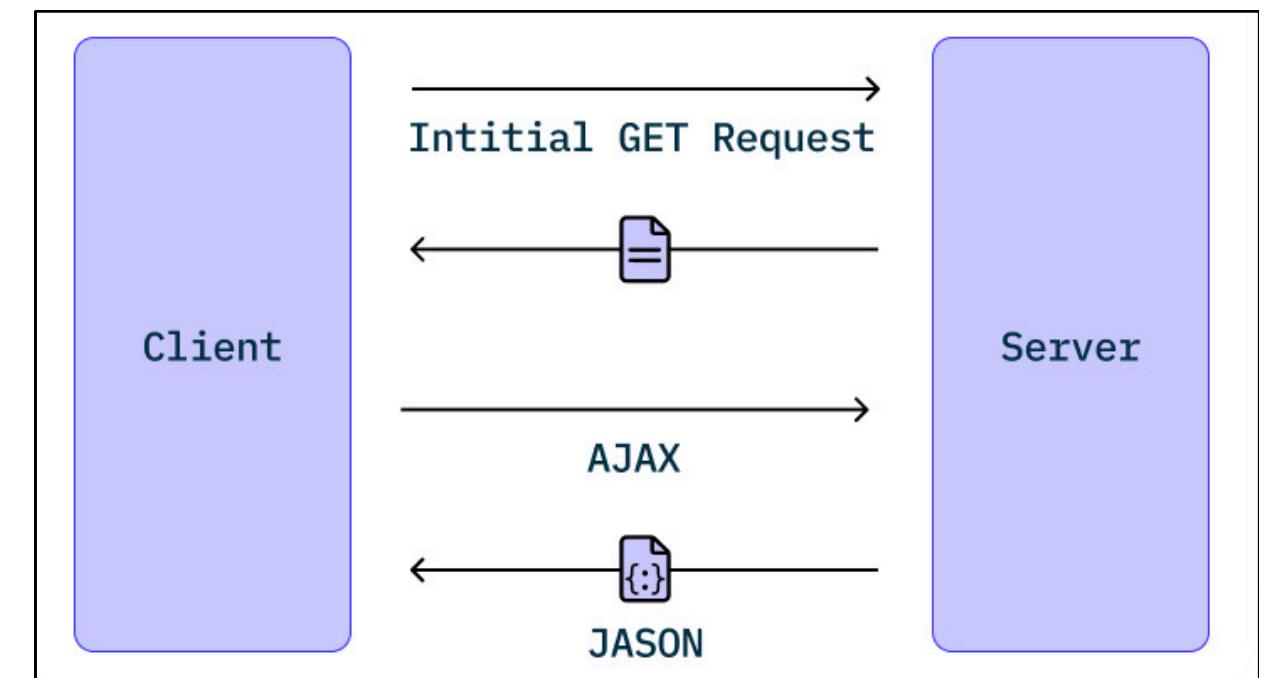
# ARCHITECTURE : MPA

1. User inputs a request/URL in the address bar.
2. Browser sends an HTTP request to the server.
3. Server processes the request and sends back HTML code, CSS styles, JavaScript scripts, etc.
4. Browser receives the necessary resources and displays the page to the user.



# MPA VS SPA

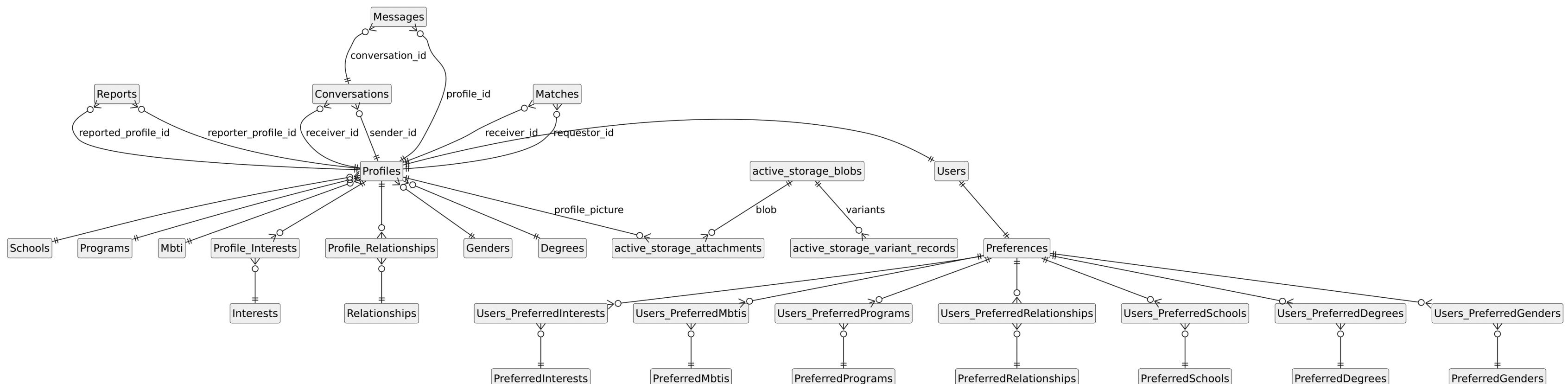
1. Initial Load Time : MPA loads faster initially
2. Speed : SPA is faster after the initial load
3. SEO : MPA is easier to optimize for search engines
4. User Experience : SPA offers a smoother, more interactive
5. Complexity : MPA is simpler to set up
6. Data Handling : SPA efficiently handles data with dynamic updates
7. Scalability : SPA scales better for complex interfaces



## 2. Technical Functionality

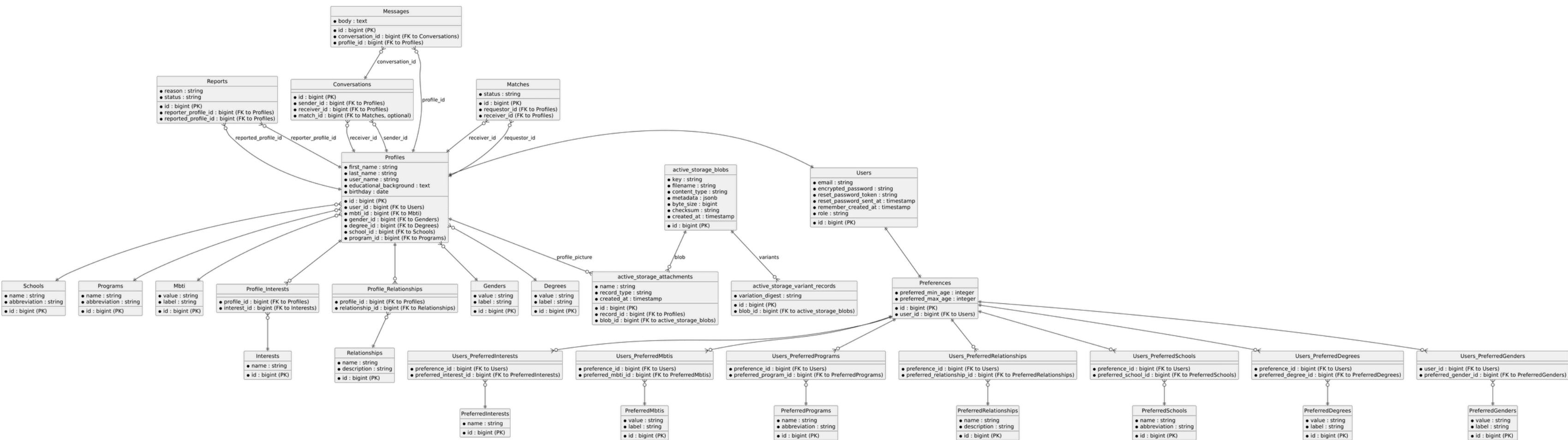


# ENTITY RELATIONSHIP DIAGRAM



## 2. Technical Functionality

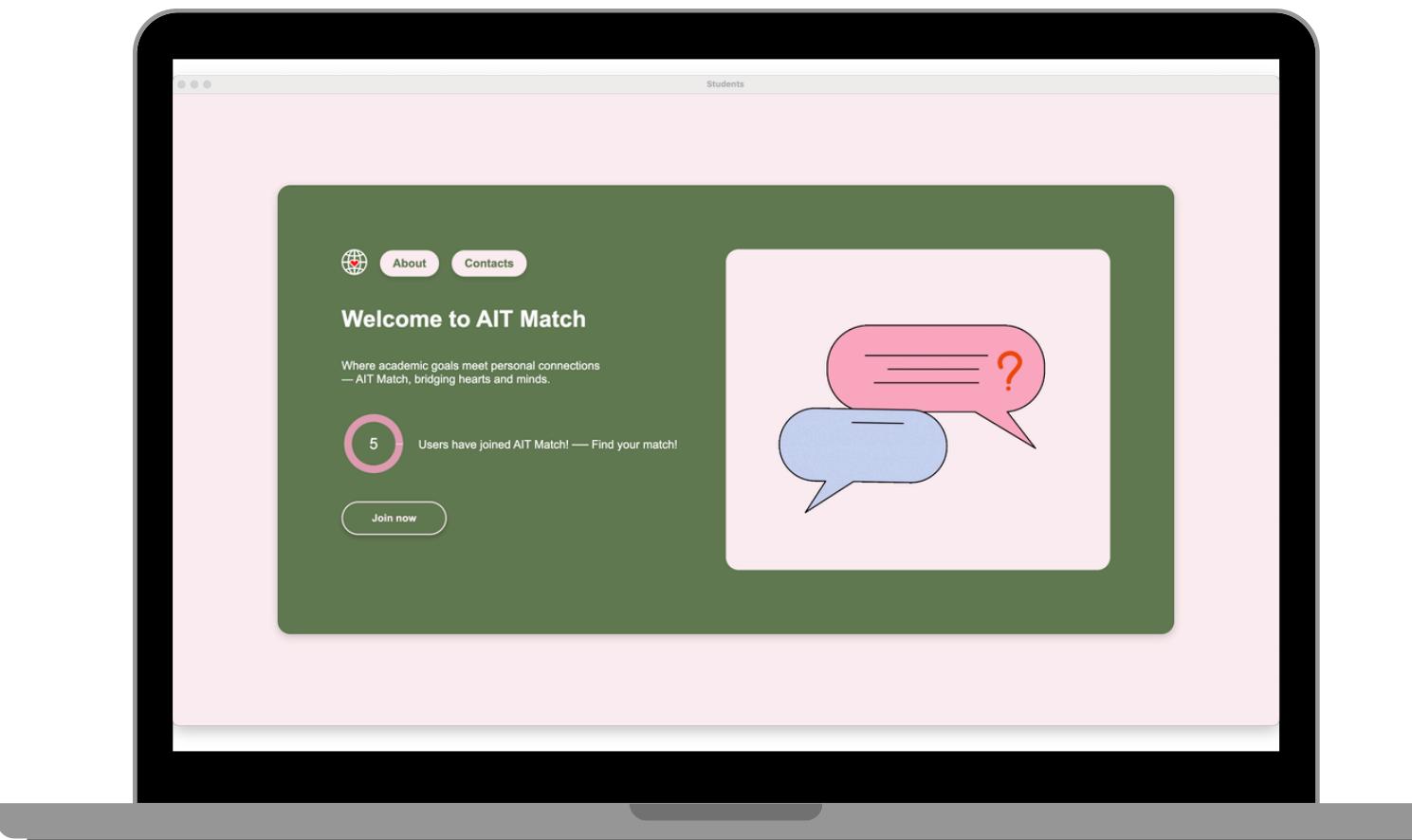
# ENTITY RELATIONSHIP DIAGRAM



## 2. Technical Functionality - User



# USER FEATURES



### 0. LANDING PAGES

- Welcome page - display no. of users
- About page - About the platform
- Contact page - About developer

### 1. USER AUTHENTICATION

- Register/Login to the system using AIT email format. (@ait.asia and @ait.ac.th)

### 2. PROFILE CREATION

- Basic information about user (eg. name, email, gender, major, etc.).
- Edit / Show / Delete profile

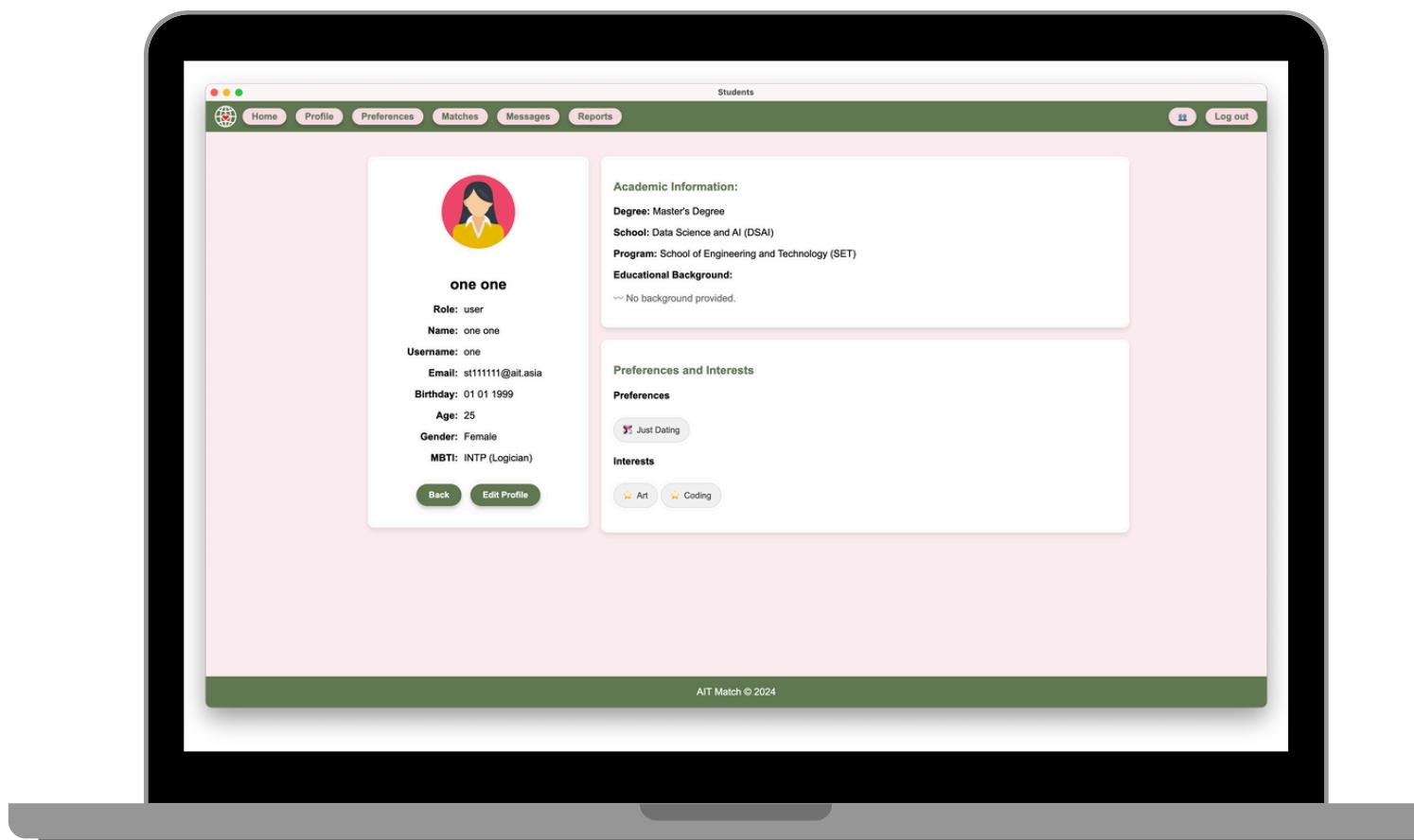
### 3. INTERACTIVE FILTERS

- Filter profiles based on users' information and their academic background.

## 2. Technical Functionality - User Features



# USER FEATURES CONT.



### 4. MATCHING SYSTEM

- Two users can choose to match between each other like adding friends. Users can delete and rematch.

### 5. REAL-TIME MESSAGE

- Two users can chat together only if they are matched.
- Users can delete chatroom.

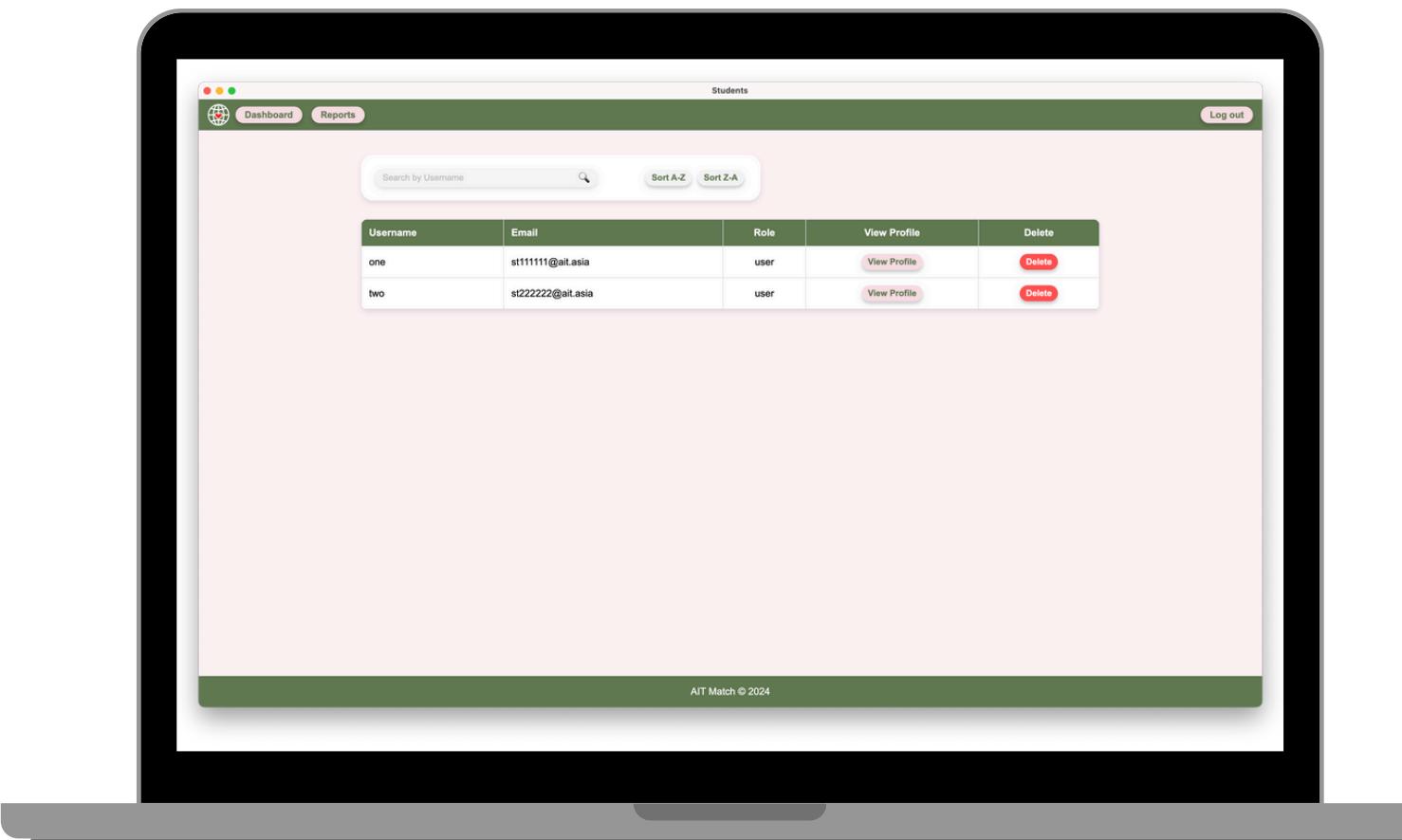
### 6. REPORT SYSTEM

- Users can report inappropriate behavior of any user to the admin.
- Users cannot delete or edit report.

## 2. Technical Functionality - Admin Features



# ADMIN FEATURES.



### 1. USER MANAGEMENT

- Delete profiles from the database
- View user profiles

### 2. REPORT MANAGEMENT

- Delete reports from the database
- Update report status back to user

# RESTFUL API : LANDING PAGES

HTTP Verb	Route	Controller#Action	Description
GET	/welcome	welcome_page#index	Render welcome page
GET	/about	about_page#index	Render about page
GET	/contact	contact_page#index	Render contact page

## 2. Technical Functionality - RESTful API design



# RESTFUL API : AUTH (DEVISE)

HTTP Verb	Route	Controller#Action	Description
GET	/users/sign_in	devise/sessions#new	Render login page
POST	/users/sign_in	devise/sessions#create	Login a user
DELETE	/users/sign_out	devise/sessions#destroy	Logout a user
GET	/users/sign_up	devise/registrations#new	Render sign-up page
POST	/users	devise/registrations#create	Create a new user
GET	/users/password/new	devise/passwords#new	Request password reset
POST	/users/password	devise/passwords#create	Reset password
GET	/users/edit	devise/registrations#edit	Edit user profile
PUT/PATCH	/users	devise/registrations#update	Update user profile
DELETE	/users	devise/registrations#destroy	Delete user profile

## 2. Technical Functionality - RESTful API design



### RESTFUL API : PROFILES

HTTP Verb	Route	Controller#Action	Description
GET	/profiles	profiles#index	List all profiles
GET	/profiles/:id	profiles#show	Show a specific profile
POST	/profiles	profiles#create	Create a new profile
PATCH/PUT	/profiles/:id	profiles#update	Update a specific profile
DELETE	/profiles/:id	profiles#destroy	Delete a profile
GET	/profiles/search	profiles#search	Search profiles
GET	/profiles/show_all	profiles#show_all	Show all profiles
POST	/profiles/:profile_id/matches	matches#create	Create a match for a profile

## 2. Technical Functionality - RESTful API design



### RESTFUL API : PREFERENCES

HTTP Verb	Route	Controller#Action	Description
GET	/preferences	preferences#index	List preferences
POST	/preferences	preferences#create	Create a new preference
GET	/preferences/:id	preferences#show	Show a specific preference
PATCH/PUT	/preferences/:id	preferences#update	Update a preference
DELETE	/preferences/:id	preferences#destroy	Delete a preference

## 2. Technical Functionality - RESTful API design



### RESTFUL API : MATCHES

HTTP Verb	Route	Controller#Action	Description
GET	/matches	matches#index	List all matches
POST	/matches	matches#create	Create a new match
DELETE	/matches/:id	matches#destroy	Delete a match
POST	/matches/:id/accept	matches#accept	Accept a match request
POST	/matches/:id/decline	matches#decline	Decline a match request
GET	/matches/matched_profiles	matches#matched_profiles	List matched profiles
GET	/matches/requests	matches#requests	List match requests

## 2. Technical Functionality - RESTful API design



# CONVERSATIONS AND MESSAGES

HTTP Verb	Route	Controller#Action	Description
GET	/conversations	conversations#index	List all conversations
POST	/conversations	conversations#create	Create a new conversation
GET	/conversations/:id	conversations#show	Show a specific conversation
PATCH/PUT	/conversations/:id	conversations#update	Update a conversation
DELETE	/conversations/:id	conversations#destroy	Delete a conversation
POST	/conversations/:conversation_id/messages	messages#create	Create a message in a conversation
GET	/conversations/:conversation_id/messages	messages#index	List messages in a conversation

## 2. Technical Functionality - RESTful API design



### RESTFUL API : REPORTS

HTTP Verb	Route	Controller#Action	Description
GET	/reports	reports#index	List all reports
POST	/reports	reports#create	Create a new report
GET	/reports/:id	reports#show	Show a specific report
PATCH/PUT	/reports/:id	reports#update	Update a report
DELETE	/reports/:id	reports#destroy	Delete a report

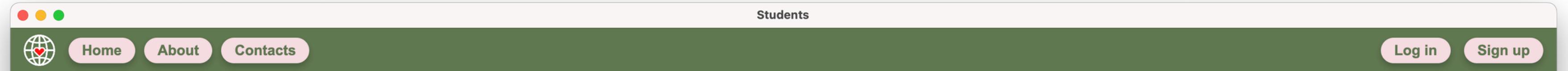
## 2. Technical Functionality - RESTful API design



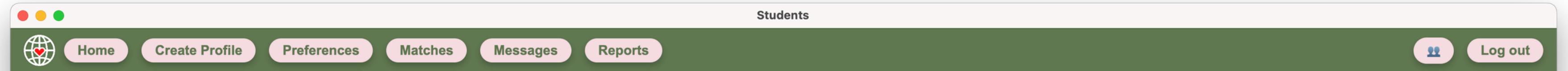
### RESTFUL API : ADMIN

HTTP Verb	Route	Controller#Action	Description
GET	/admin/users	admin/users#index	List all users (admin view)
PATCH/PUT	/admin/users/:id	admin/users#update	Update a user
DELETE	/admin/users/:id	admin/users#destroy	Delete a user
GET	/admin/reports	admin/reports#index	List all reports (admin view)
PATCH/PUT	/admin/reports/:id	admin/reports#update	Update a report
DELETE	/admin/reports/:id	admin/reports#destroy	Delete a report

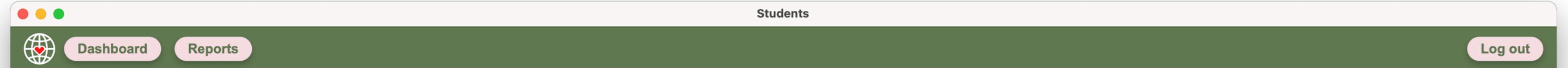
### 3. Design and Usability



#### NAVIGATION BAR : LANDING PAGE

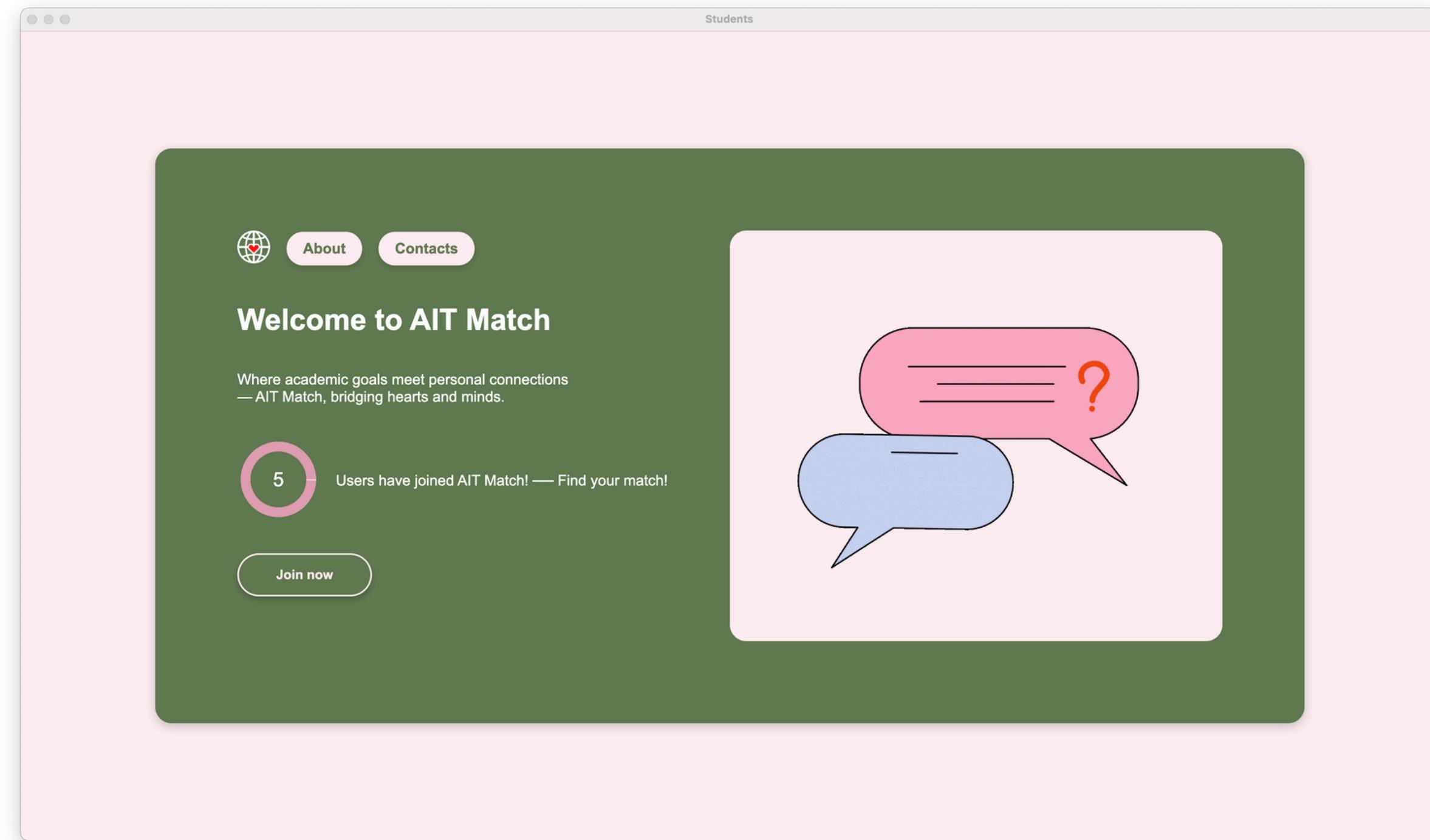


#### NAVIGATION BAR : USER



#### NAVIGATION BAR : ADMIN

### 3. Design and Usability - User



## 1. WELCOME PAGE

### 3. Design and Usability - User



The screenshot shows the 'About' section of the AIT Match website. The top navigation bar includes a globe icon, 'Home', 'About', 'Contacts', 'Log in', and 'Sign up'. The main content features a graphic of four hands holding smartphones, each displaying a heart icon. Below this is a pink arrow-shaped button labeled 'ABOUT US'. A callout box contains the following text:

~ AIT Match connects AIT students in a safe, authentic, and engaging way. Find like-minded peers based on academic programs, majors, schools, and interests. Our platform ensures safety with university-only login, admin oversight, and reporting features. Once matched, enjoy real-time chats with connections who've mutually accepted.

~ AIT Match — your gateway to meaningful connections at AIT.

At the bottom, a dark green footer bar contains the text 'AIT Match © 2024'.

## 2. ABOUT US

### 3. Design and Usability - User



Students

Home About Contacts Log in Sign up

contact us!



st124875@ait.asia

github.com/werrnnnwerrnnnnnn

Asian Institute of Technology ...  
58 หมู่ 9 Phahonyothin Rd, Khlong Nueang, Khlong Luang District, Pathum Thani 12120  
4.7 ★★★★☆ 393 reviews  
View larger map

VV Resort Hotel  
Forensic center 1  
Talaad Thai  
Dhammakay  
Iyara Market  
Klong Thom Market  
Lotus's Klong Luang  
Makro  
Thammasat University Rangsit Campus  
Thammasat University Convention Centre...  
Thammasat Stadium  
TU Dome Plaza

Keyboard shortcuts Map data ©2024 Google Terms Report a map error

AIT Match © 2024

## 3. CONTACT

### 3. Design and Usability - User



The screenshot shows a web browser window with a dark green header bar. The header contains a globe icon with a red heart, the word "Students", and navigation links for "Home", "About", and "Contacts" on the left, and "Log in" and "Sign up" on the right. The main content area has a light pink background. On the left, there's a white rectangular form titled "Create an Account!". It includes three input fields labeled "AIT Email", "Password", and "Confirm Password", followed by a green "Sign Up" button. Below the button is a link "Already a Member? Log in to AIT Match". To the right of the form is a dark green rectangular graphic featuring a white globe icon with a red heart in the center, and the text "Find Your Perfect Match at AIT!" in white. At the bottom of the page, a dark green footer bar displays the text "AIT Match © 2024".

## 4. SIGN UP

### 3. Design and Usability - User



The screenshot shows a login interface for 'Students' on a website. At the top, there's a navigation bar with icons for Home, About, and Contacts, and buttons for Log in and Sign up. Below the navigation is a large 'Welcome Back!' message with a note: 'Please use AIT email to log in'. It features two input fields for 'AIT Email' and 'Password', a 'Remember me' checkbox, and a 'Forgot Password?' link. A prominent green button labeled 'Log In' is centered below these fields. At the bottom of the form area, there's a link 'Not a Member? Sign up to AIT Match'. To the right of the form is a large green rectangular graphic containing a globe icon with a red heart in the center and the text 'Find Your Perfect Match at AIT !'. The footer of the page includes the copyright notice 'AIT Match © 2024'.

## 5. LOG IN

### 3. Design and Usability - User



The screenshot shows a web application interface for user profile creation. At the top, there's a dark green header bar with a globe icon, navigation links for Home, Create Profile, Preferences, Matches, Messages, and Reports, and a Log out button. The main content area features a large "Welcome!" message with a pink heart icon and the subtext "Build Your Profile to Begin!". A green success message box on the right says "Welcome! You have signed up successfully.". Below the welcome message, the user's email address "st11111@ait.asia" is displayed. The central part of the screen contains a form with the following fields:

- First name (input field)
- Last name (input field)
- User name (input field)
- Birthday (dropdown menus for Day, Month, Year)
- Mbti (dropdown menu for MBTI type)
- Gender (dropdown menu for gender selection)

At the bottom of the form, there's a small text "AIT Match © 2024".

## 6. PROFILE CREATION

### 3. Design and Usability - User



The screenshot shows a web-based profile creation form titled "Students". The top navigation bar includes links for Home, Create Profile, Preferences, Matches, Messages, and Reports. On the right side of the header are icons for user profile and log out, along with a green "Log out" button.

The main form area contains the following fields:

- Month (dropdown menu)
- Year (dropdown menu)
- Mbti (dropdown menu)
- Gender (dropdown menu)
- Degree (dropdown menu)
- School (dropdown menu)
- Program (dropdown menu)
- Educational background (text input field)
- Upload Profile Picture (input field showing "No file chosen")
- Select your interests (up to 5) (button labeled "Select Interests")
- Select Your Preferred Relationship Type (button labeled "Select Preferred Relationship Type")

A green "Confirm" button is located at the bottom of the form. A success message "Welcome! You have signed up successfully." is displayed in a green box on the right side of the page.

At the bottom of the page, a dark green footer bar contains the text "AIT Match © 2024".

## 7. PROFILE CREATION CONT.

### 3. Design and Usability - User



Students

Home Create Profile Preferences Matches Messages Reports Log out

# Welcome

Build Your Profile to Begin!

Your Email: st11111@ait.asia

**12 errors prohibited this profile from being saved:**

First name

cannot be blank, can only contain letters, spaces, hyphens, and apostrophes.

Last name

cannot be blank, can only contain letters, spaces, hyphens, and apostrophes.

User name

cannot be blank, can only contain letters, numbers, and underscores.

Birthday

Day

Month

Year

must be provided

AIT Match © 2024

## 8. PROFILE VALIDATION

### 3. Design and Usability - User



The screenshot shows a web-based application interface for creating a student profile. The top navigation bar includes links for Home, Create Profile, Preferences, Matches, Messages, and Reports. On the right side of the header are icons for a user profile and Log out. The main content area is titled 'Students' and contains several dropdown menus and input fields:

- Mbti**: A dropdown menu with the placeholder "Select your MBTI type". Below it is a red error message: "must be selected."
- Gender**: A dropdown menu with the placeholder "Select your gender". Below it is a red error message: "must be selected."
- Degree**: A dropdown menu with the placeholder "Select your degree". Below it is a red error message: "must be selected."
- School**: A dropdown menu with the placeholder "Select your school". Below it is a red error message: "must be selected."
- Program**: A dropdown menu with the placeholder "Select your program". Below it is a red error message: "must be selected."
- Educational background**: An empty text input field.
- Upload Profile Picture**: A file input field with the placeholder "Choose File" and the status "No file chosen".
- Select your interests (up to 5)**: A button labeled "Select Interests ▾".
- Select Your Preferred Relationship Type**: A button labeled "Select Preferred Relationship Type ▾".

A green "Confirm" button is located at the bottom right of the form. At the very bottom of the page, a dark green footer bar displays the text "AIT Match © 2024".

## 9. PROFILE VALIDATION CONT.

### 3. Design and Usability - User



The screenshot shows a user interface for profile editing. At the top, there's a navigation bar with tabs: Home, Profile, Preferences, Matches, Messages, and Reports. On the far right of the bar are icons for a person and 'Log out'. The main content area has a light pink background. In the center, there's a hand-drawn style illustration of a computer screen with a profile icon and a pencil. Below the illustration, the text 'Upgrade Your Profile Today!' is written in a cursive, green font. Underneath the text is a wavy pink line. A placeholder email address 'Your Email: st11111@ait.asia' is displayed. The form itself has a light gray background and contains the following fields:

First name	one
Last name	one
User name	one
Birthday	1 January 1999
Mbtii	INTP (Logician)

At the bottom of the form, there's a dark green footer bar with the text 'AIT Match © 2024'.

## 10. PROFILE EDIT

### 3. Design and Usability - User



The screenshot shows a user profile edit form. At the top, there's a navigation bar with tabs: Home, Profile, Preferences, Matches, Messages, and Reports. On the right side of the header are a user icon and a Log out button. The main content area is titled "Students". It contains several dropdown menus for personal information:

- Gender: Female
- Degree: Master's Degree
- School: School of Engineering and Technology (SET)
- Program: Data Science and AI (DSAI)

Below these are input fields for "Educational background" and "Upload Profile Picture" (with a "Choose File" button showing "No file chosen"). There are also sections for "Select your interests (up to 5)" and "Select Your Preferred Relationship Type", both with dropdown menus labeled "Select Interests" and "Select Preferred Relationship Type". A "Confirm" button is located at the bottom of this section.

At the bottom of the page, there's a modal dialog box with a dark background and light text. It says "Type your username to permanently delete your account" and has a text input field with placeholder "Enter your username". Below the input field is a red "Delete Account" button.

At the very bottom of the page, a green footer bar displays the text "AIT Match © 2024".

## 11. PROFILE EDIT CONT.

### 3. Design and Usability - User



The screenshot shows a web application interface for a student matching platform. The top navigation bar includes a globe icon, 'Home', 'Profile', 'Preferences', 'Matches', 'Messages', 'Reports', and a user icon with 'Log out'. The title 'Students' is displayed above the main content area. A search bar with 'Search by Username' and a magnifying glass icon is followed by a dropdown menu labeled 'Sort Profiles'. The main content area is titled 'Showing all profiles' and features a card for a user named '@ two'. The card displays the user's profile picture (a blue and red circular icon), their name '@ two', age (29), gender (Non-binary), email (st22222@ait.asia), and major (Computer Science). To the right of the card are 'Match' and 'View Profile' buttons. A secondary card with the same header 'Showing all profiles' is partially visible on the right. The bottom of the page has a dark green footer bar with the text 'AIT Match © 2024'.

## 12. PROFILE INDEX

### 3. Design and Usability - User



The screenshot shows a user profile page for a student named "one one". The top navigation bar includes links for Home, Profile, Preferences, Matches, Messages, and Reports, along with a globe icon and a log out button. The main content area is divided into two sections: "Academic Information" and "Preferences and Interests".

**Academic Information:**

- Degree: Master's Degree
- School: Data Science and AI (DSAI)
- Program: School of Engineering and Technology (SET)

**Educational Background:**

~~ No background provided.

**Preferences and Interests:**

**Preferences:**

- Just Dating

**Interests:**

- Art
- Coding

At the bottom left of the main content area, there are "Back" and "Edit Profile" buttons. The footer of the page displays the text "AIT Match © 2024".

## 13. PROFILE SHOW

### 3. Design and Usability - User



The screenshot shows a web-based application titled "Students" with a green header bar. The header includes navigation links: Home, Profile, Preferences, Matches, Messages, Reports, a user icon, and Log out. Below the header is a decorative graphic featuring three stylized human figures in circles and a magnifying glass-like shape, with the text "Craft Your Connection!" underneath. A placeholder email address "Your Email: st11111@ait.asia" is displayed. The main content area is a light pink box containing a form for setting preferences. The form fields include:

- Age Range:** A slider set from 20 to 100+.
- Preferred Genders:** A dropdown menu labeled "Select Genders".
- Preferred Interests:** A dropdown menu labeled "Select Interests".
- Preferred Relationships:** A dropdown menu labeled "Select Relationships".
- Preferred MBTI:** A dropdown menu labeled "Select MBTI".
- Preferred Degrees:** A dropdown menu labeled "Select Degrees".

A green footer bar at the bottom of the pink box contains the text "AIT Match © 2024".

## 14. PREFERENCE SETUP

### 3. Design and Usability - User



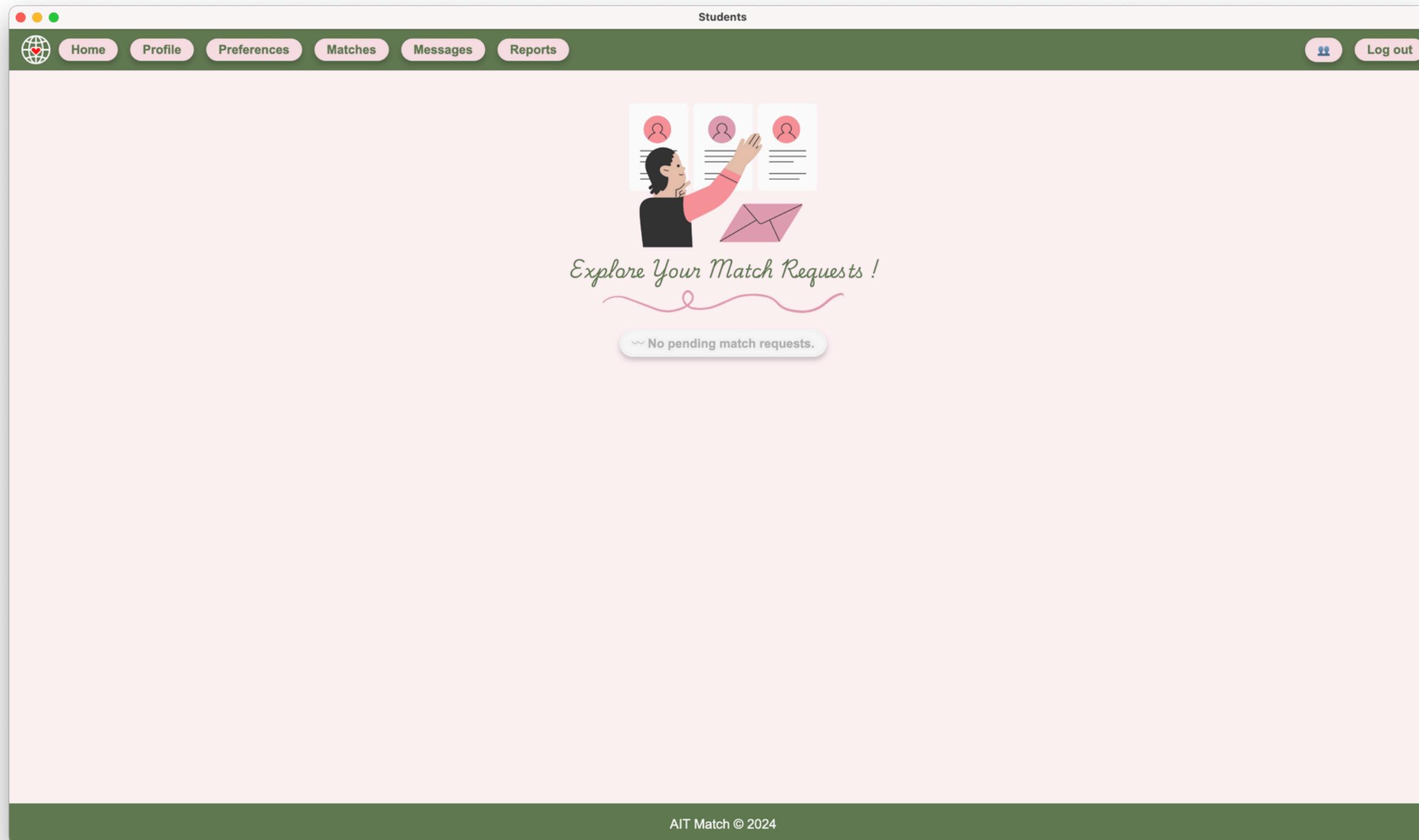
The screenshot shows a user profile page titled "Students". At the top, there's a navigation bar with links for Home, Profile, Preferences, Matches, Messages, and Reports. On the right side of the header are icons for a person and a lock, followed by "Log out". Below the header, the email "Your Email: st11111@ait.asia" is displayed. The main content area is a form for setting preferences, enclosed in a light gray box. The preferences are listed as follows:

- Age Range:** A slider set from 20 to 100+.
- Preferred Genders:** A dropdown menu labeled "Select Genders ▾".
- Preferred Interests:** A dropdown menu labeled "Select Interests ▾".
- Preferred Relationships:** A dropdown menu labeled "Select Relationships ▾".
- Preferred MBTI:** A dropdown menu labeled "Select MBTI ▾".
- Preferred Degrees:** A dropdown menu labeled "Select Degrees ▾".
- Preferred Schools:** A dropdown menu labeled "Select Schools ▾".
- Preferred Programs:** A dropdown menu labeled "Select Programs ▾".

At the bottom of the form is a green "Save Preferences" button. The footer of the page contains the text "AIT Match © 2024".

## 15. PREFERENCE SETUP CONT.

### 3. Design and Usability - User



## 16. NO MATCH REQUEST

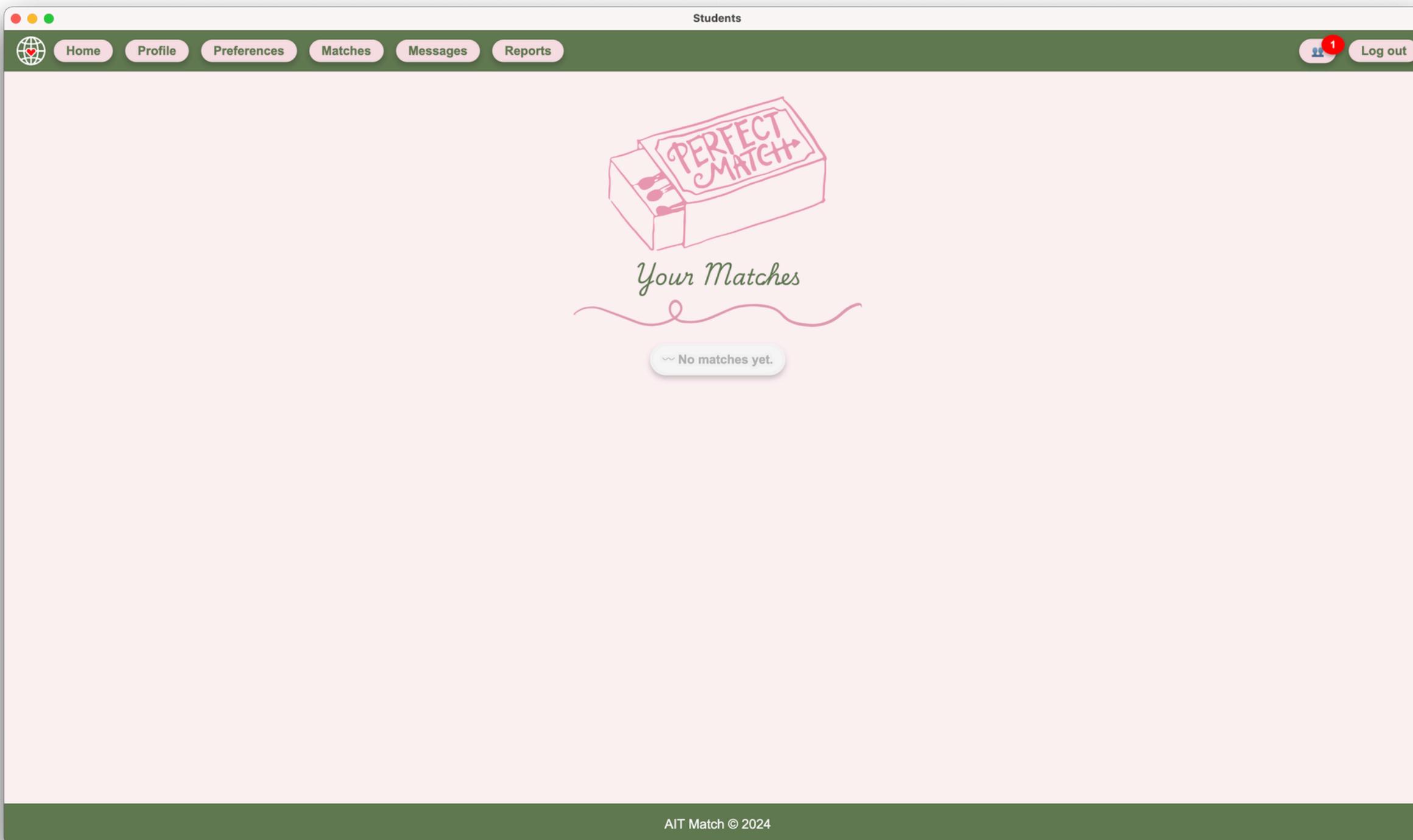
### 3. Design and Usability - User



The screenshot shows a web application window titled "Students". The top navigation bar includes links for Home, Profile, Preferences, Matches, Messages, Reports, and Log out. A notification badge with the number "1" is visible next to the Log out button. The main content area features a cartoon illustration of a person interacting with a computer screen displaying three user profiles. Below the illustration is the text "Explore Your Match Requests!". A callout box in the lower-left corner displays a match request from a user named "@two" with the email address "st222222@ait.asia". The callout includes "Accept" and "Decline" buttons. At the bottom of the page, the text "AIT Match © 2024" is visible.

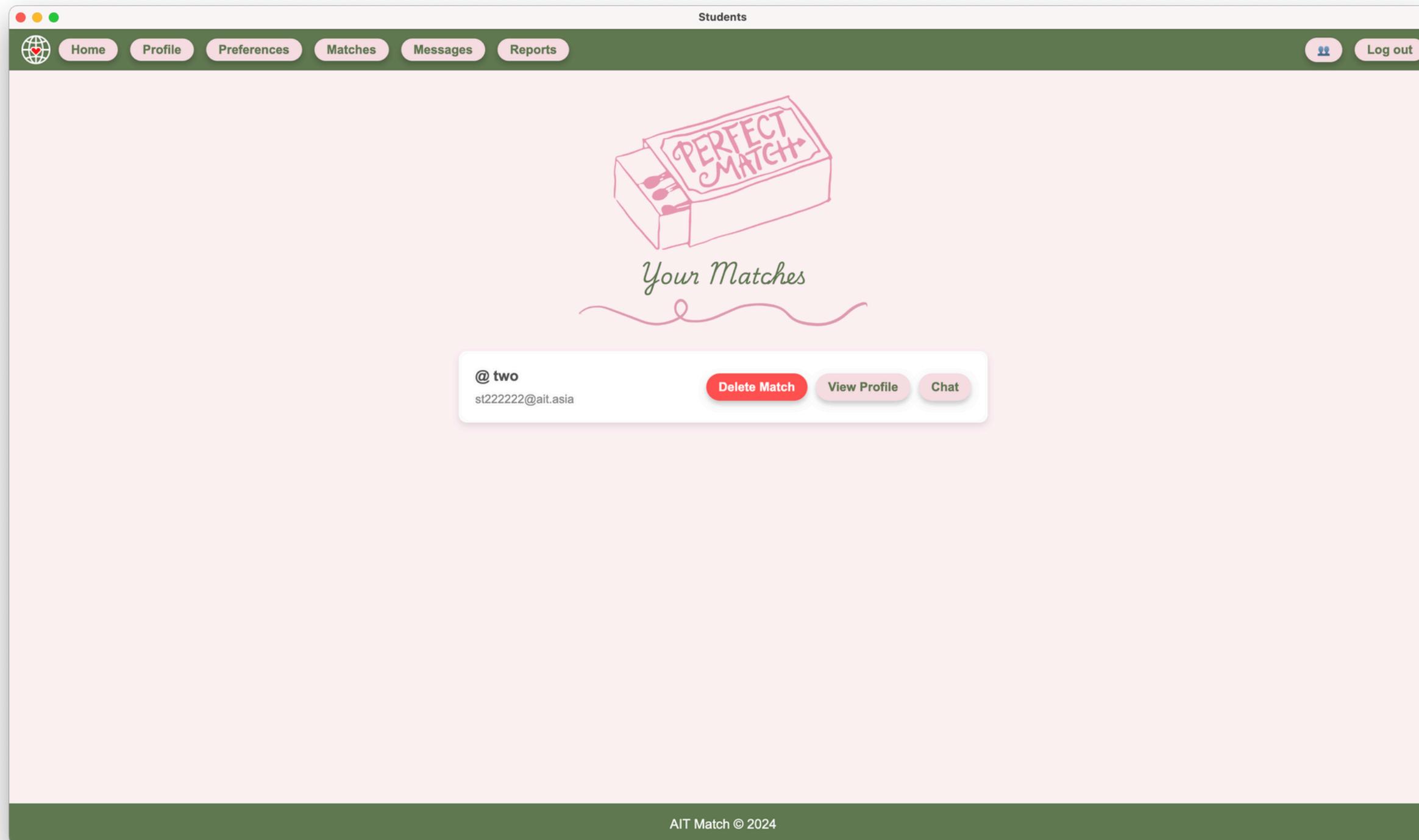
## 17. MATCH REQUEST

### 3. Design and Usability - User



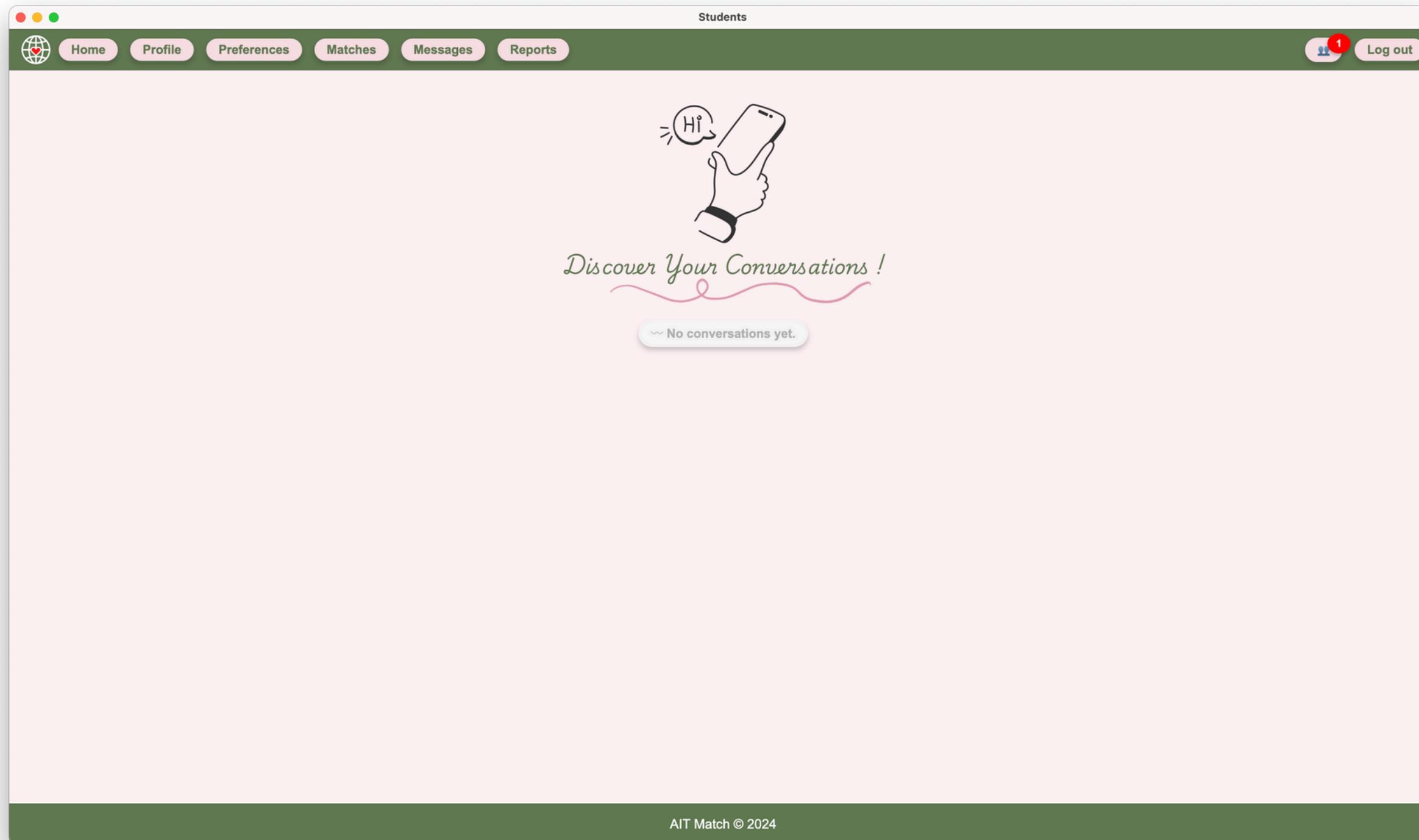
## 18. NO MATCHED PROFILE

### 3. Design and Usability - User



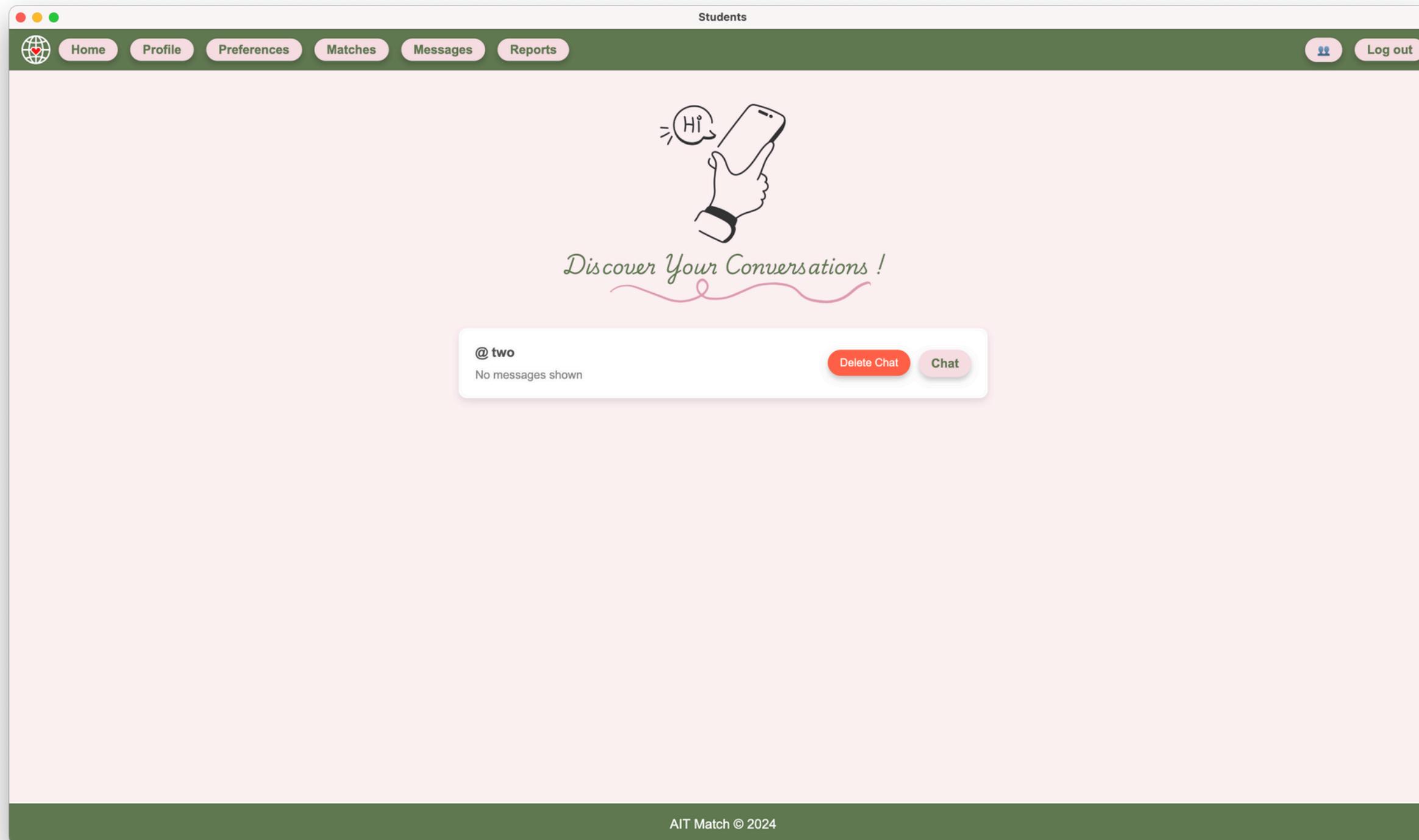
## 19. MATCHED PROFILE

### 3. Design and Usability - User



## 20. NO CONVERSATION

### 3. Design and Usability - User



## 21. CONVERSATION

### 3. Design and Usability - User



The screenshot shows a web-based messaging interface. At the top, there's a dark green header bar with the word "Students" on the right. Below it is a navigation bar with tabs: Home, Profile, Preferences, Matches, Messages (which is highlighted in pink), and Reports. To the left of the messages tab is a small globe icon with a heart. On the far right of the header are a user icon and a "Log out" button. The main area is titled "Chat with two". Inside, a message list shows four messages: "one: Hello" (green background, sent at 10:14, 09 Nov 2024), "two: Hi" (grey background, sent at 10:14, 09 Nov 2024), "two: How are you?" (grey background, sent at 10:14, 09 Nov 2024), and "one: I'm doing good!" (green background, sent at 10:14, 09 Nov 2024). Below the message list is a text input field with placeholder text "Write your message..." and a blue "Send" button. At the bottom of the page, a dark green footer bar contains the text "AIT Match © 2024".

## 22. CHAT ROOM

### 3. Design and Usability - User



The screenshot shows a user profile page for a student named 'two two'. The top navigation bar includes links for Home, Profile, Preferences, Matches, Messages, and Reports, along with a globe icon and a log out button. The main content area is divided into two sections: 'Academic Information' and 'Preferences and Interests'. In the 'Academic Information' section, the user is listed as having a Doctoral Degree in Computer Science from the School of Engineering and Technology (SET). They also mention being a CS student. In the 'Preferences and Interests' section, the user has selected 'Study Buddy' under preferences and 'Coding' and 'Cooking' under interests. At the bottom left of the page is a 'Back' button, and at the bottom right are 'Report' and 'AIT Match © 2024' buttons.

**Academic Information:**

**Degree:** Doctoral Degree

**School:** Computer Science (CS)

**Program:** School of Engineering and Technology (SET)

**Educational Background:**

I am CS student

**Preferences and Interests**

**Preferences**

Study Buddy

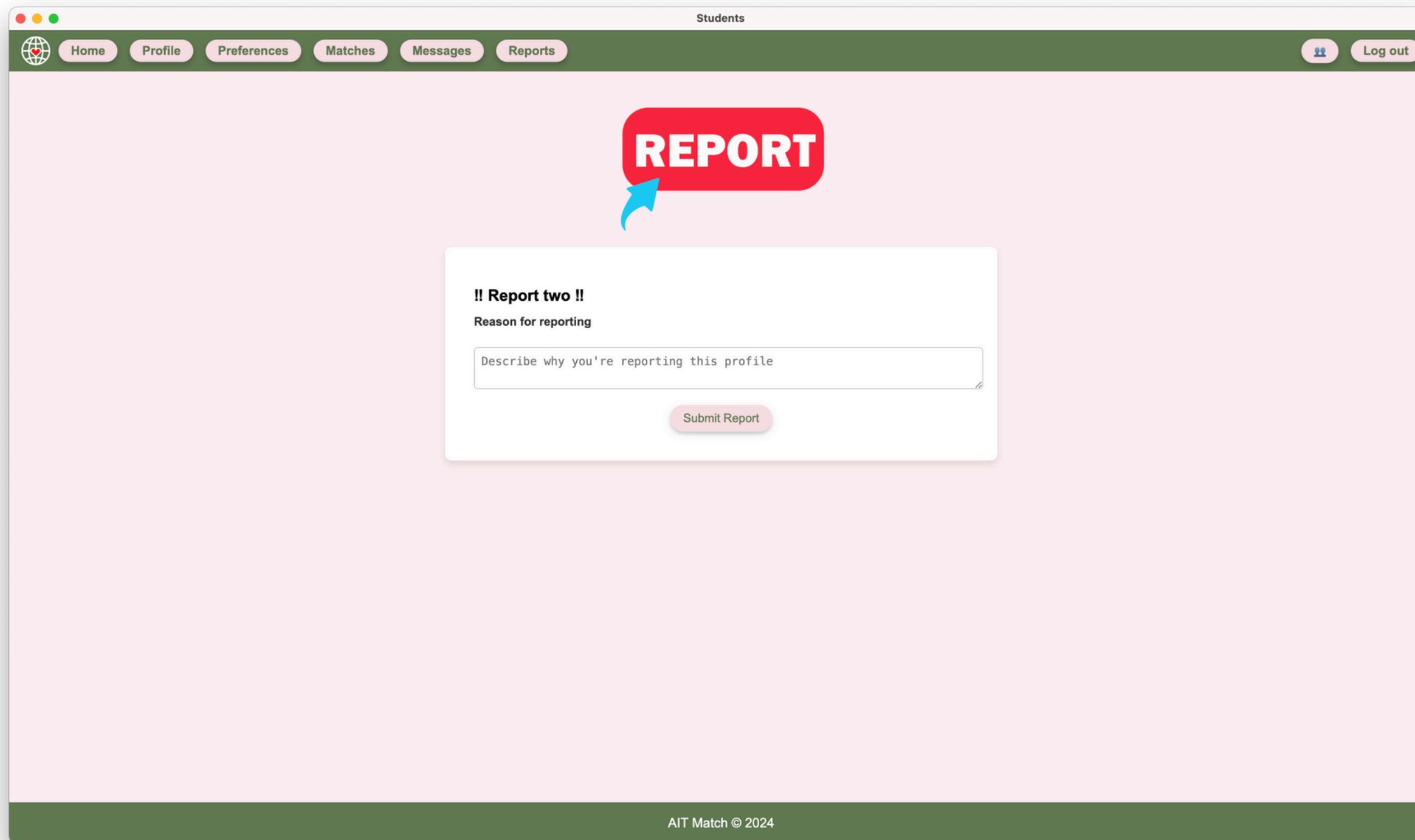
**Interests**

Coding Cooking

AIT Match © 2024

## 23. HOW TO REPORT

### 3. Design and Usability - User



## 24. REPORT NEW

### 3. Design and Usability - User



The screenshot shows a web application interface with a dark green header bar. The header contains the title "Students" and a navigation menu with links: Home, Profile, Preferences, Matches, Messages, and Reports. A user icon with a red notification badge (containing the number 1) and a "Log out" button are also in the header. Below the header is a search bar with the placeholder "Search by Username" and sorting options "Newest" and "Oldest". The main content area features a table with four columns: "Reported User", "Status", "Submitted On", and "Actions". The table is currently empty. At the bottom of the page, a dark green footer bar displays the copyright notice "AIT Match © 2024".

**25. NO REPORT**

### 3. Design and Usability - User



The screenshot shows a web application interface titled "Students". The top navigation bar includes links for Home, Profile, Preferences, Matches, Messages, Reports, and Log out. A search bar at the top allows users to "Search by Username" with a magnifying glass icon. Below the search bar are two buttons: "Newest" and "Oldest". The main content area displays a table with the following data:

Reported User	Status	Submitted On	Actions
two	pending	09 Nov 2024, 10:33 AM	<a href="#">View Details</a>

At the bottom of the page, a footer bar contains the text "AIT Match © 2024".

## 26. REPORT INDEX

### 3. Design and Usability - User



A screenshot of a web application window titled "Students". The top navigation bar includes icons for globe, user profile, preferences, matches, messages, and reports, along with a "Log out" button. The main content area displays a "Report Details" box containing the following information:

**Reported User:** [two](#)  
**Reason:** Because he was using bad words.  
**Status:** pending  
**Submitted On:** 09 November 2024, 10:33 AM

A "Back to My Reports" button is located at the bottom of the details box. The footer of the page reads "AIT Match © 2024".

## 27. REPORT SHOW

### 3. Design and Usability - Admin



The screenshot shows a web-based administration interface titled "Students". The top navigation bar includes a globe icon, "Dashboard", "Reports", and "Log out". Below the navigation is a search bar with placeholder "Search by Username" and sorting options "Sort A-Z" and "Sort Z-A". The main content area displays a table of users:

Username	Email	Role	View Profile	Delete
one	st111111@ait.asia	user	<a href="#">View Profile</a>	<a href="#">Delete</a>
two	st222222@ait.asia	user	<a href="#">View Profile</a>	<a href="#">Delete</a>

At the bottom of the page, a footer bar contains the text "AIT Match © 2024".

## 28. ADMIN USER MANAGEMENT

### 3. Design and Usability - Admin



The screenshot shows a web-based application titled "Students" with a dark green header bar. The header includes a globe icon, "Dashboard" and "Reports" buttons, and a "Log out" button. Below the header is a search bar with the placeholder "Search by Username" and a magnifying glass icon. To the right of the search bar are two buttons: "Newest" and "Oldest". The main content area displays a table with one row of data. The table has columns: Reporter, Reported User, Status, Date Reported, Actions, and Delete. The data row shows: "one" in the Reporter column, "[two](#)" in the Reported User column, "pending" in the Status column, "09 Nov 2024, 10:33 AM" in the Date Reported column, a "View" button in the Actions column, and a "Delete" button in the Delete column. At the bottom of the page, a dark green footer bar contains the text "AIT Match © 2024".

Reporter	Reported User	Status	Date Reported	Actions	Delete
one	<a href="#">two</a>	pending	09 Nov 2024, 10:33 AM	<a href="#">View</a>	<a href="#">Delete</a>

## 29. ADMIN REPORT MANAGEMENT

## 4. Security Considerations



### SECURITY: RAILS DEVISE



- *Registerable* : Handles user sign-up, account editing, and deletion.
- *Recoverable* : Allows users to reset their passwords.
- *Validatable* : Provides validations for email and password (email format, password length).
- *Confirmable* : Sends emails with confirmation instructions to verify users.
- *Lockable* : Locks an account after a specified number of failed sign-in attempts.



## 4. Test Results



# BDD CUCUMBER TESTING

## • User Authentication - Sign Up

```
root@be4396c0a549:/rails# bundle exec cucumber
WARNING: You have set Rails' config.cache_classes to false (Spring needs cache_classes set to false).
This is known to cause problems with database transactions.

Set config.cache_classes to true if you want to use transactions.
Feature: User Sign Up
  As a new user
  I want to sign up for an account
  So that I can log in and use the application

  Scenario: Signup successful with correct email and password format      # features/signup.feature:6
    Given I am on the sign up page                                         # features/step_definitions/signup_steps.rb:1
    When I fill in valid sign up details with "st123456@ait.ac.th" and "password" # features/step_definitions/signup_steps.rb:5
    And I click the "Sign Up" button                                         # features/step_definitions/signup_steps.rb:35
    Then I should see "Welcome! You have signed up successfully."          # features/signup.feature:10

  Scenario: Signup failed for ait.asia and ait.ac.th with invalid email format      # features/signup.feature:12
    Given I am on the sign up page                                         # features/step_definitions/signup_steps.rb:1
    When I fill in invalid email format "invalid_email@invalid.com" and a valid password # features/step_definitions/signup_steps.rb:11
    And I click the "Sign Up" button                                         # features/step_definitions/signup_steps.rb:35
    Then I should see the error "Email must follow AIT format"            # features/step_definitions/signup_steps.rb:43

  Scenario: Signup failed for ait.asia and ait.ac.th with invalid password format # features/signup.feature:18
    Given I am on the sign up page                                         # features/step_definitions/signup_steps.rb:1
    When I fill in valid email "st123456@ait.ac.th" and an invalid password "123" # features/step_definitions/signup_steps.rb:17
    And I click the "Sign Up" button                                         # features/step_definitions/signup_steps.rb:35
    Then I should see the error "Password is too short (minimum is 6 characters)" # features/step_definitions/signup_steps.rb:43

  Scenario: Signup failed for ait.asia and ait.ac.th with blank password # features/signup.feature:24
    Given I am on the sign up page                                         # features/step_definitions/signup_steps.rb:1
    When I fill in valid email "st123456@ait.asia" and a blank password       # features/step_definitions/signup_steps.rb:23
    And I click the "Sign Up" button                                         # features/step_definitions/signup_steps.rb:35
    Then I should see the error "Password can't be blank"                  # features/step_definitions/signup_steps.rb:43

  Scenario: Signup failed for ait.asia and ait.ac.th with mismatched password confirmation      # features/signup.feature:30
    Given I am on the sign up page                                         # features/step_definitions/signup_steps.rb:1
    When I fill in valid email "st123456@ait.ac.th", password "password", and mismatched confirmation "notpassword" # features/step_definitions/signup_steps.rb:29
    And I click the "Sign Up" button                                         # features/step_definitions/signup_steps.rb:35
    Then I should see the error "Password confirmation doesn't match Password" # features/step_definitions/signup_steps.rb:43

5 scenarios (1 undefined, 4 passed)
20 steps (1 undefined, 19 passed)
0m2.180s

You can implement step definitions for undefined steps with these snippets:

Then('I should see {string}') do |string|
  pending # Write code here that turns the phrase above into concrete actions
end
```

Share your Cucumber Report with your team at <https://reports.cucumber.io>

Command line option: `--publish`  
Environment variable: `CUCUMBER_PUBLISH_ENABLED=true`  
`cucumber.yml:` `default: --publish`

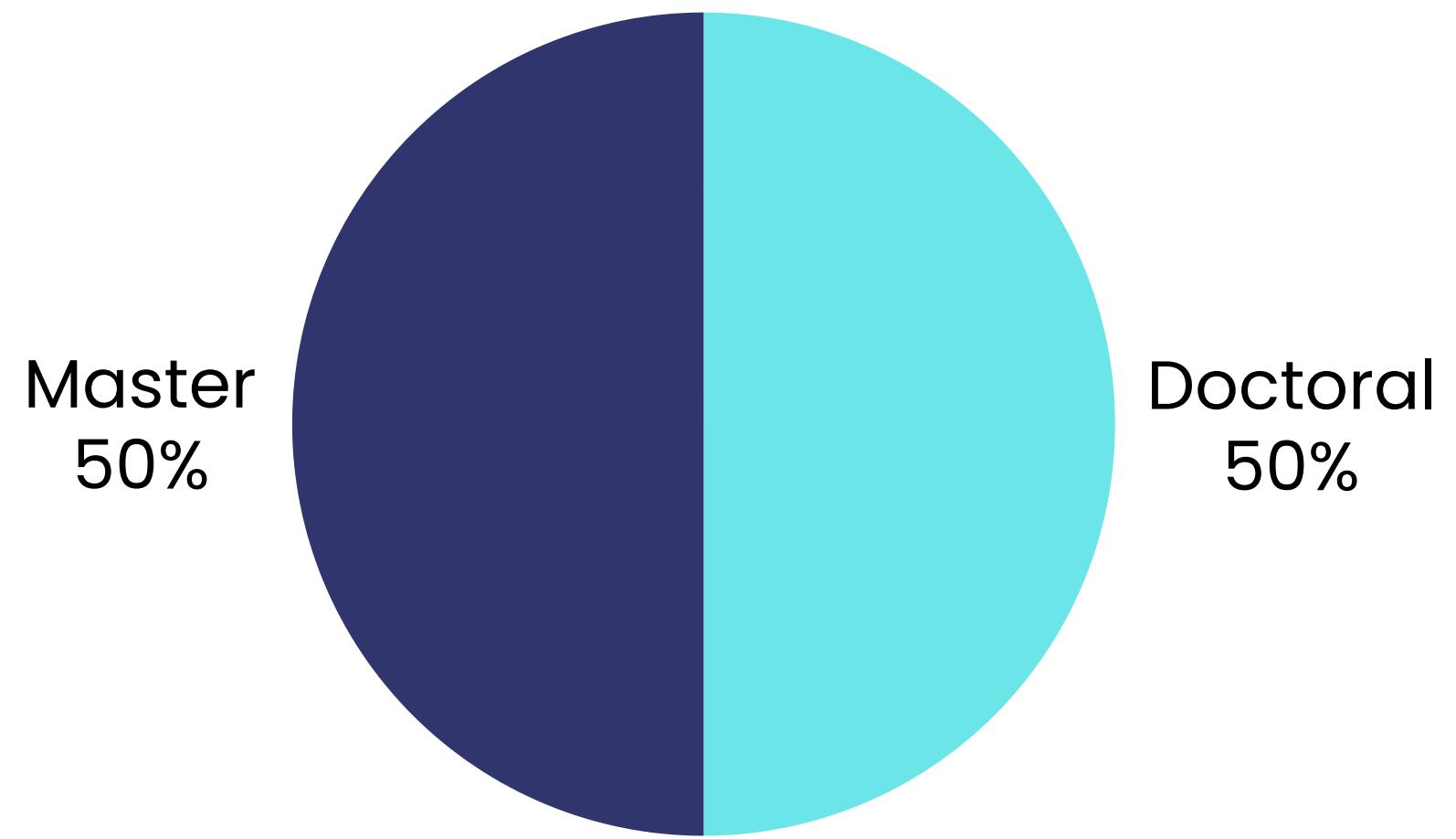
More information at <https://cucumber.io/docs/cucumber/environment-variables/>

To disable this message, specify `CUCUMBER_PUBLISH_QUIET=true` or use the `--publish-quiet` option. You can also add this to your `cucumber.yml`:  
`default: --publish-quiet`

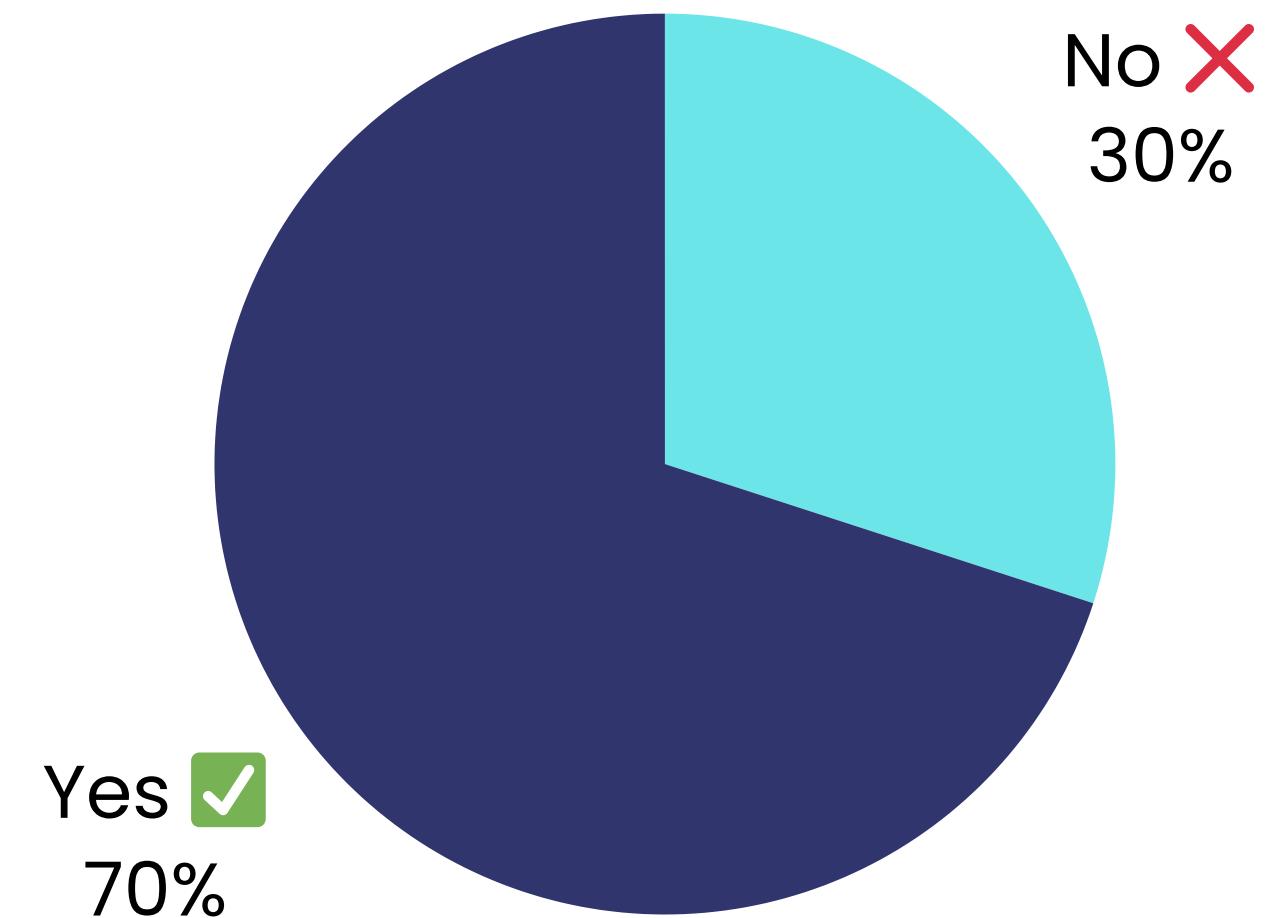
## 5. User Feedback - Total 10 participants



### DEGREE



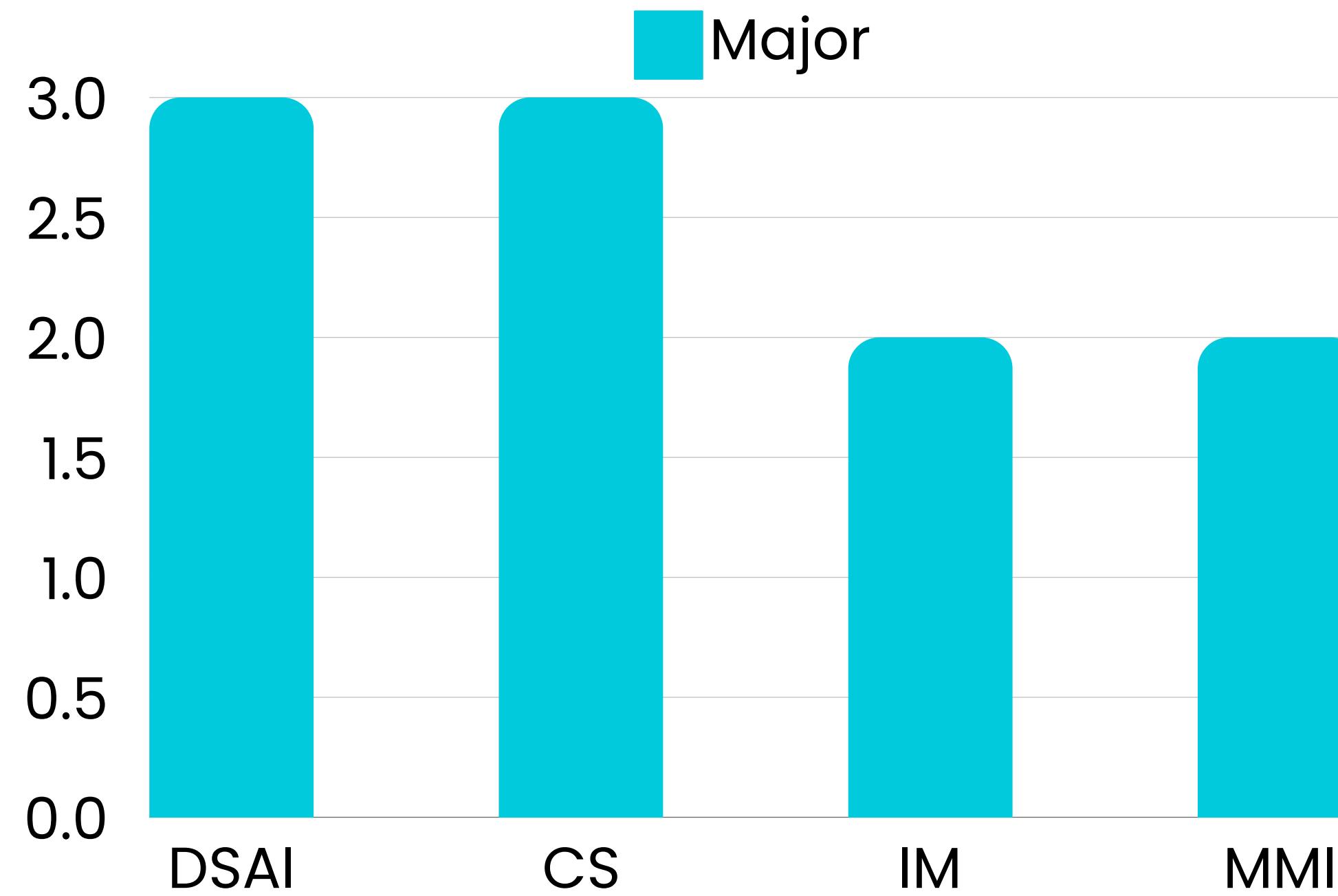
### ENROLLED FSAD



## 5. User Feedback - Total 10 participants

● ● ●

**MAJOR**

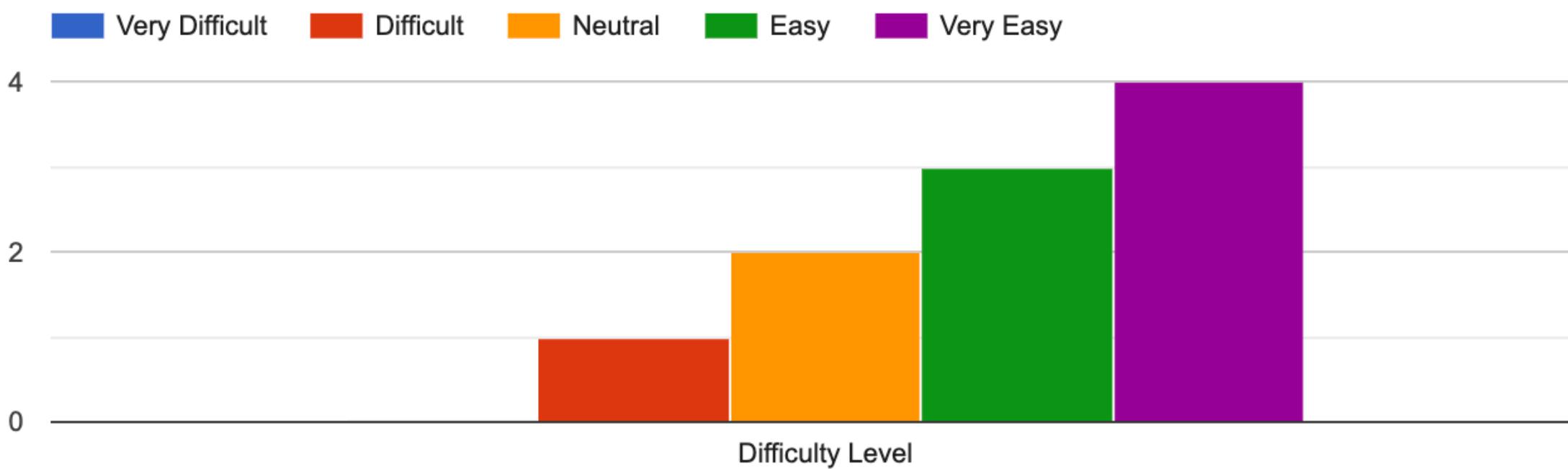


## 5. User Feedback - Total 10 participants



1. How easy or difficult do you find navigating the app and using the navigation bar?

Copy chart



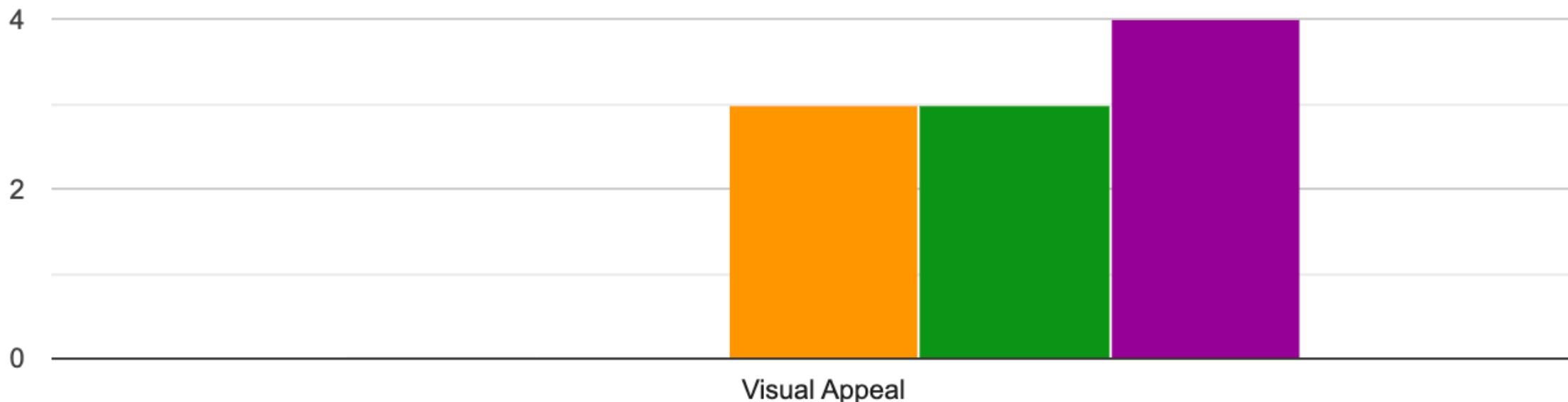
## 5. User Feedback - Total 10 participants



Copy chart

2. How visually appealing do you find the app's design and interface?

Unappealing   Needs Improvement   Neutral   Beautiful   Very Beautiful

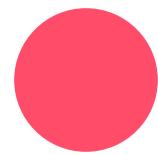
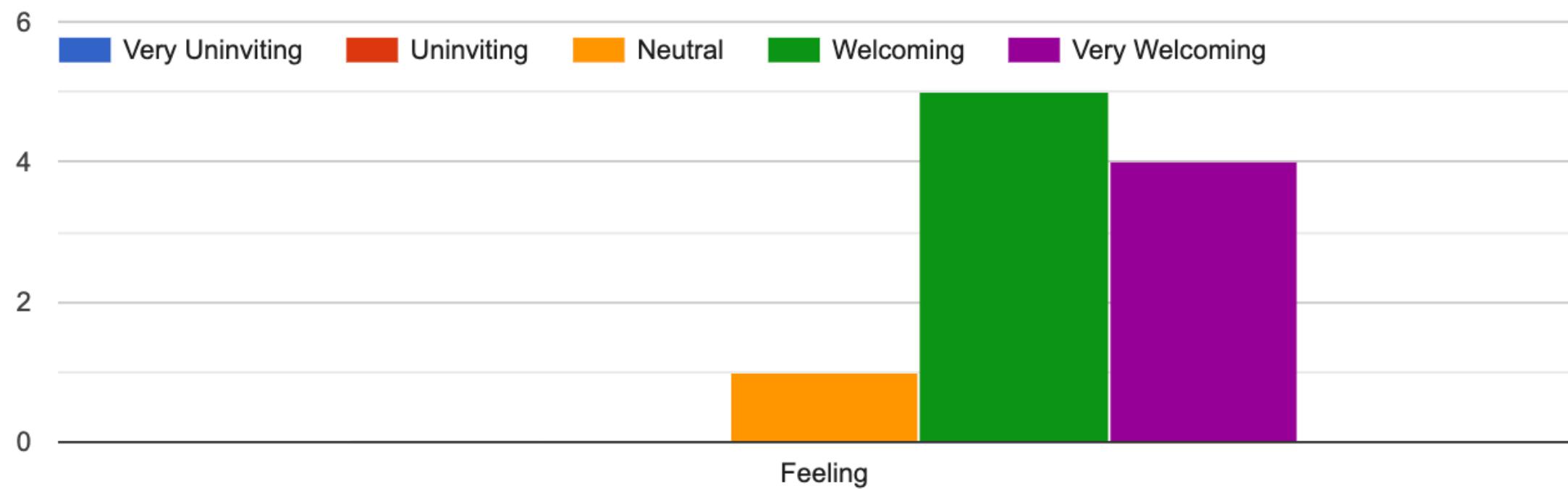


## 5. User Feedback - Total 10 participants



Copy chart

3. What was your first impression of the Welcome page, About Us and Contact page?

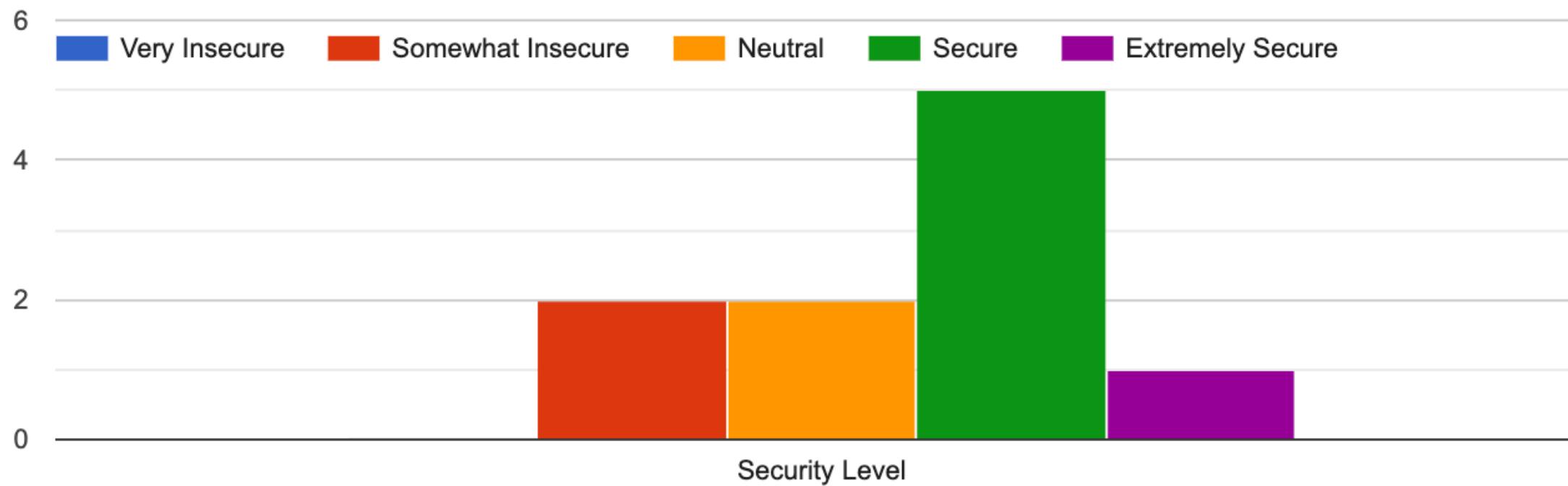


## 5. User Feedback - Total 10 participants



Copy chart

4. How confident do you feel about the security and reliability of the login, logout, and user verification process?



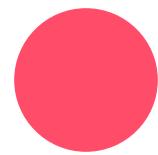
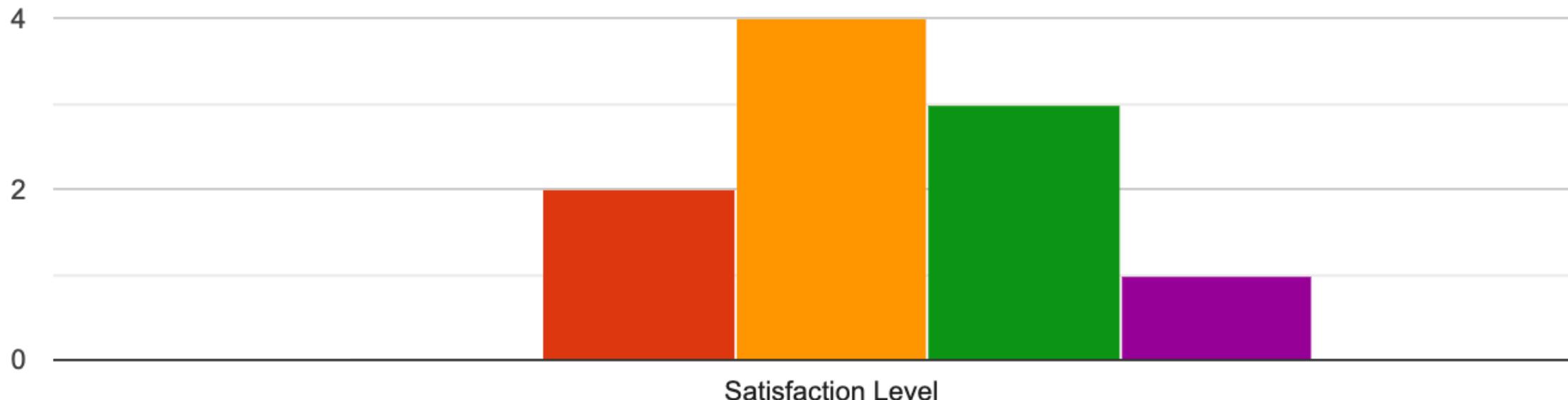
## 5. User Feedback - Total 10 participants



Copy chart

5. How satisfied are you with the profile setup process?

Very Dissatisfied   Dissatisfied   Neutral   Satisfied   Very Satisfied

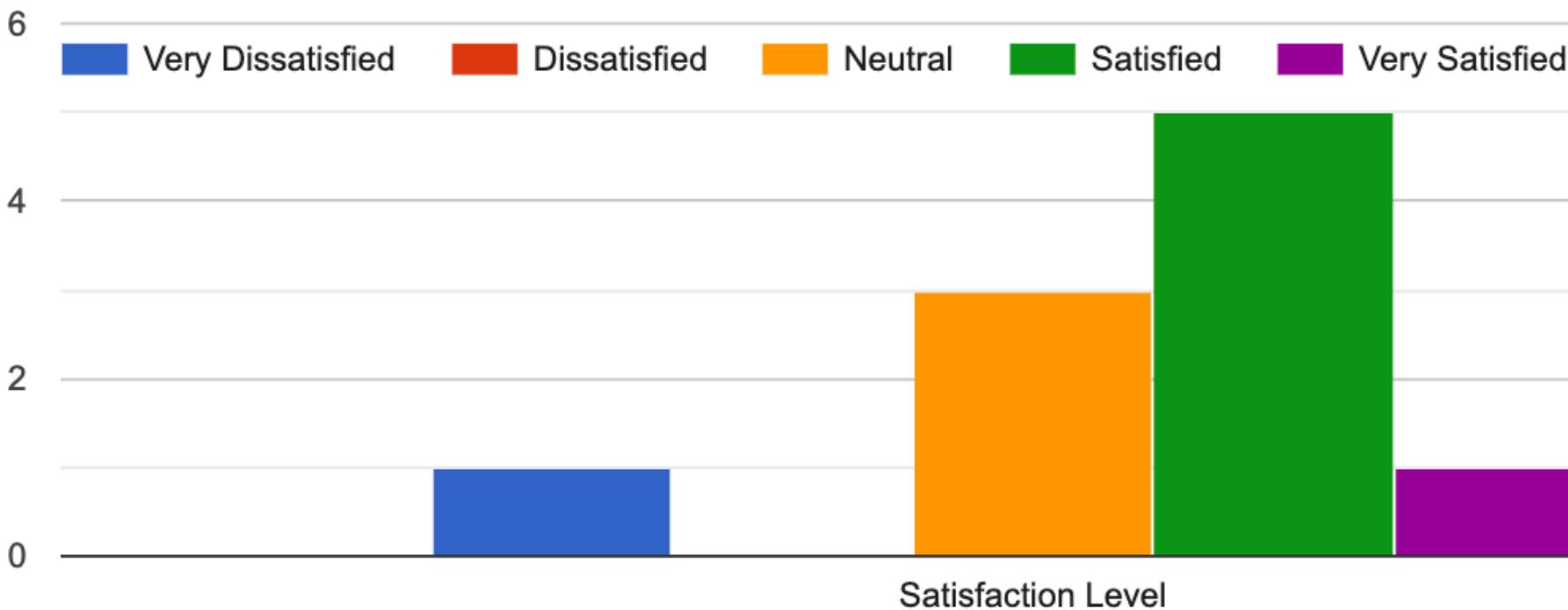


## 5. User Feedback - Total 10 participants



Copy chart

6. How satisfied are you with the preference setup process?

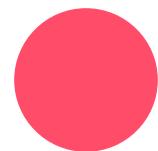
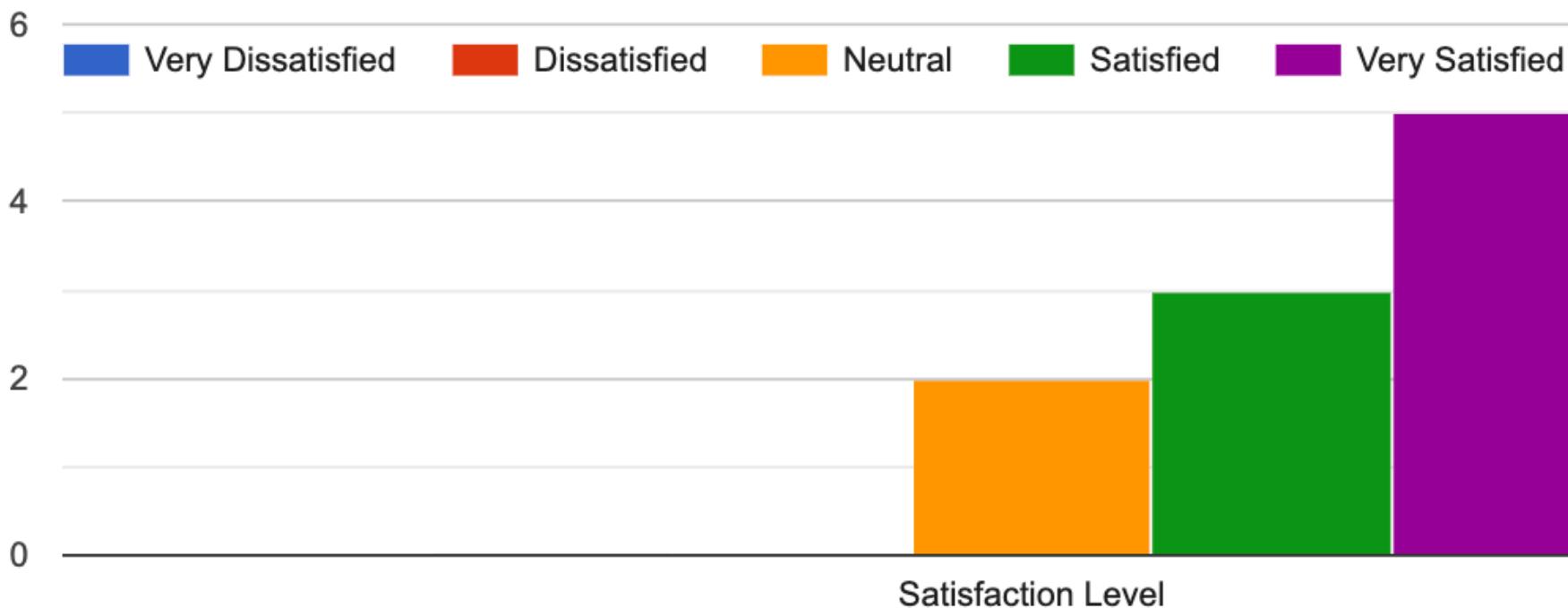


## 5. User Feedback - Total 10 participants



Copy chart

7. How satisfied are you with the real-time messaging feature?

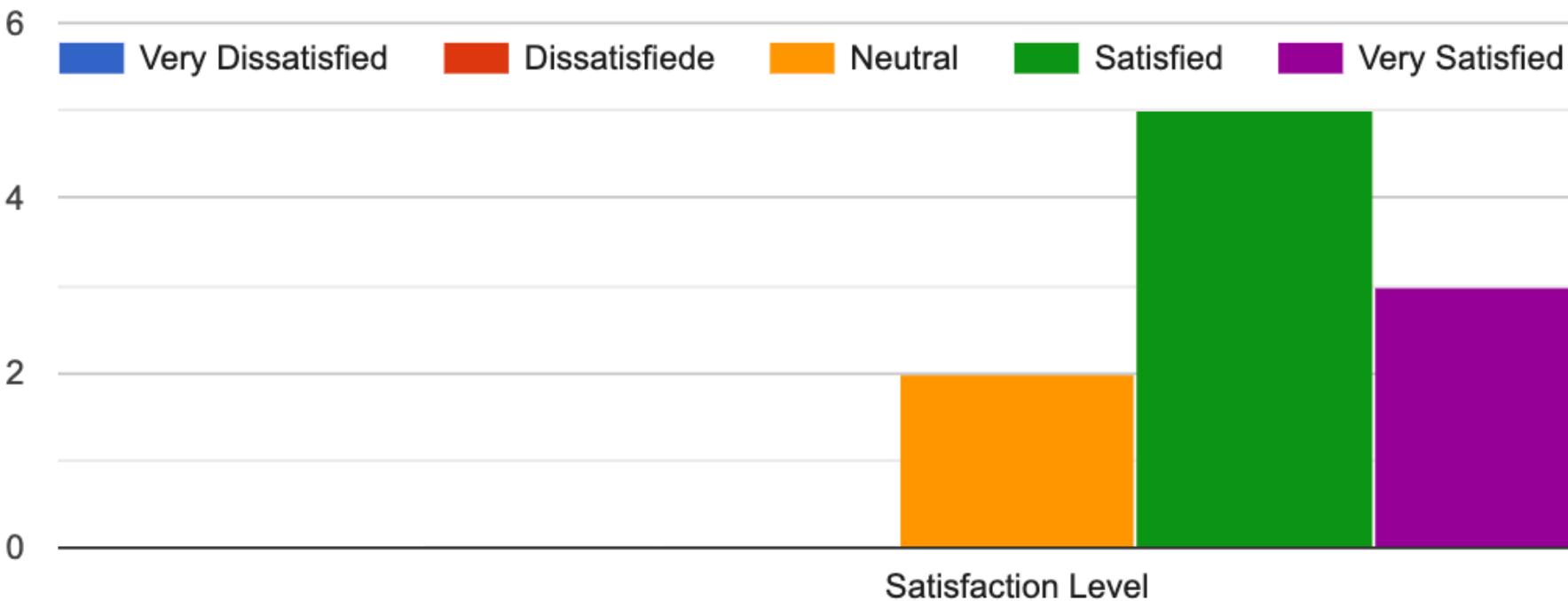


## 5. User Feedback - Total 10 participants



Copy chart

8. How satisfied are you with the report system?

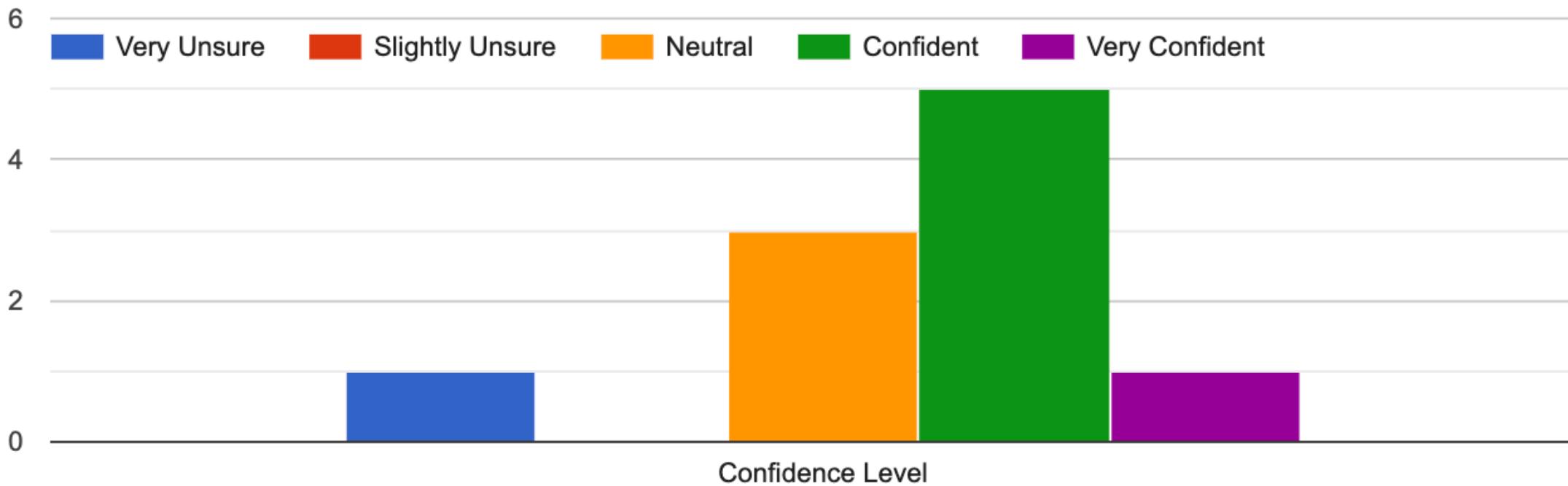


## 5. User Feedback - Total 10 participants



Copy chart

9. How confident do you feel about the security of your personal information on AIT Match?

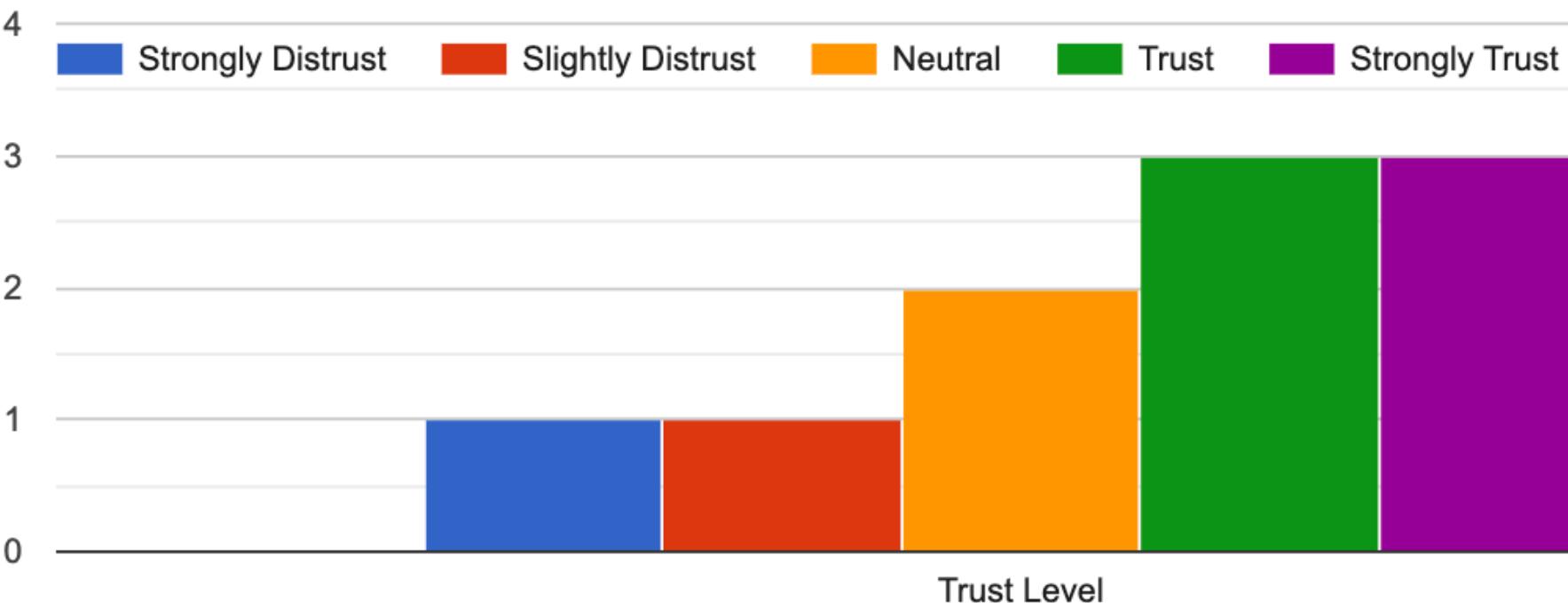


## 5. User Feedback - Total 10 participants



Copy chart

10. Do you trust that the admin actions keep the platform safe and fair?

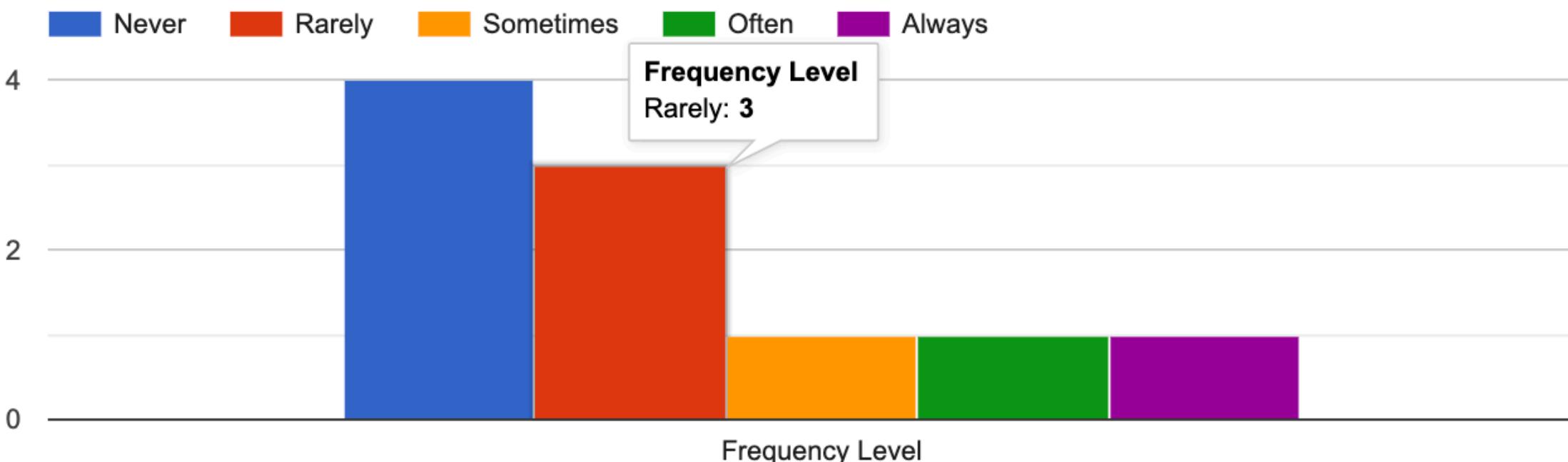


## 5. User Feedback - Total 10 participants



Copy chart

11. How often have you encountered errors or bugs while using the app?



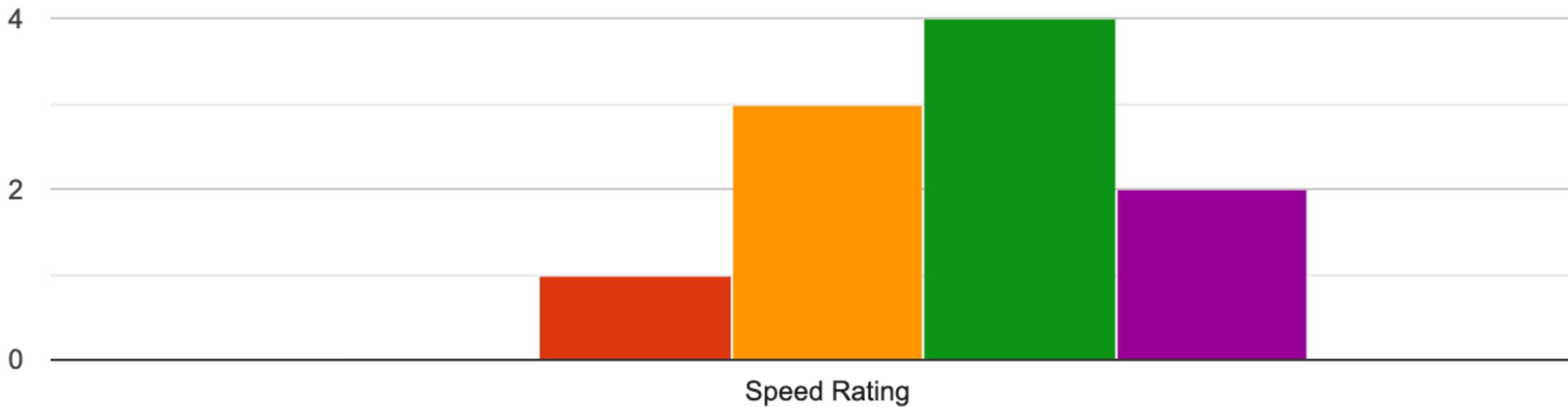
## 5. User Feedback - Total 10 participants



Copy chart

12. How would you rate the speed of the AIT Match platform?

Extremely Slow   Slow   Average   Fast   Extremely Fast

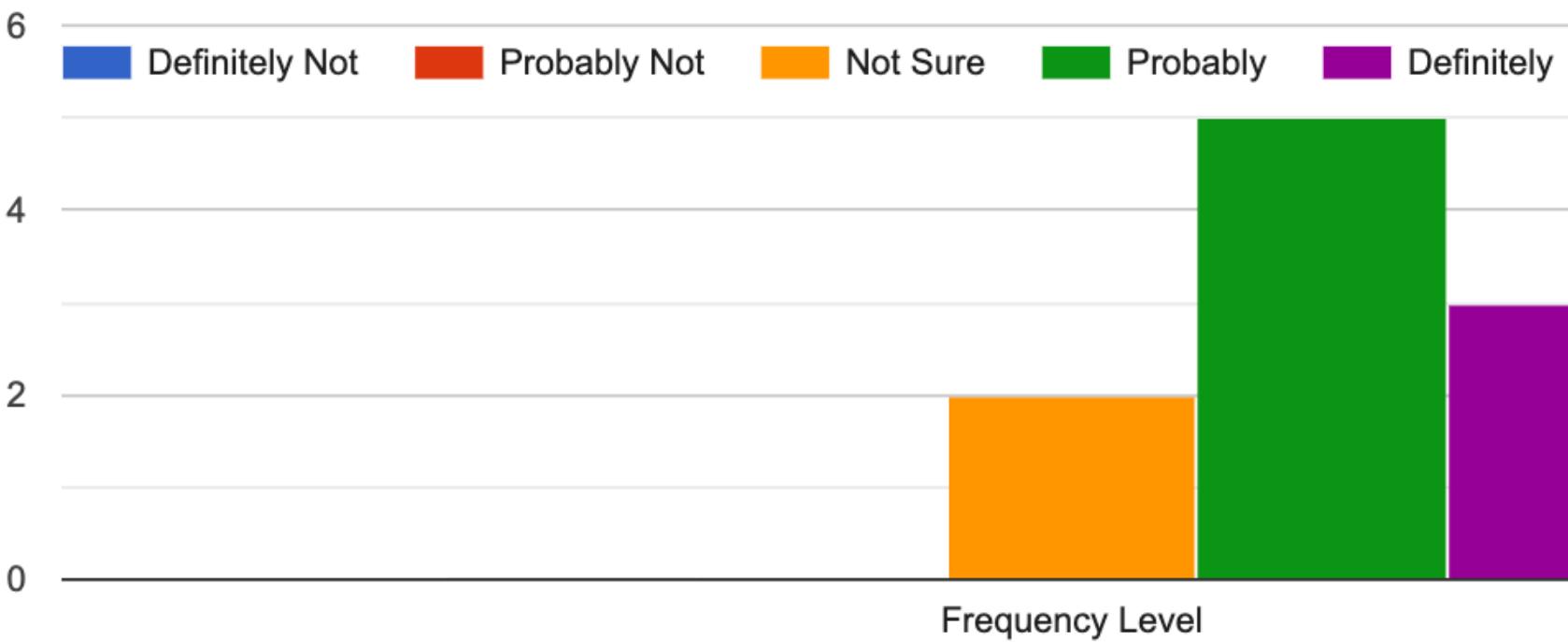


## 5. User Feedback - Total 10 participants



13. Would you recommend this app to other students?

Copy chart



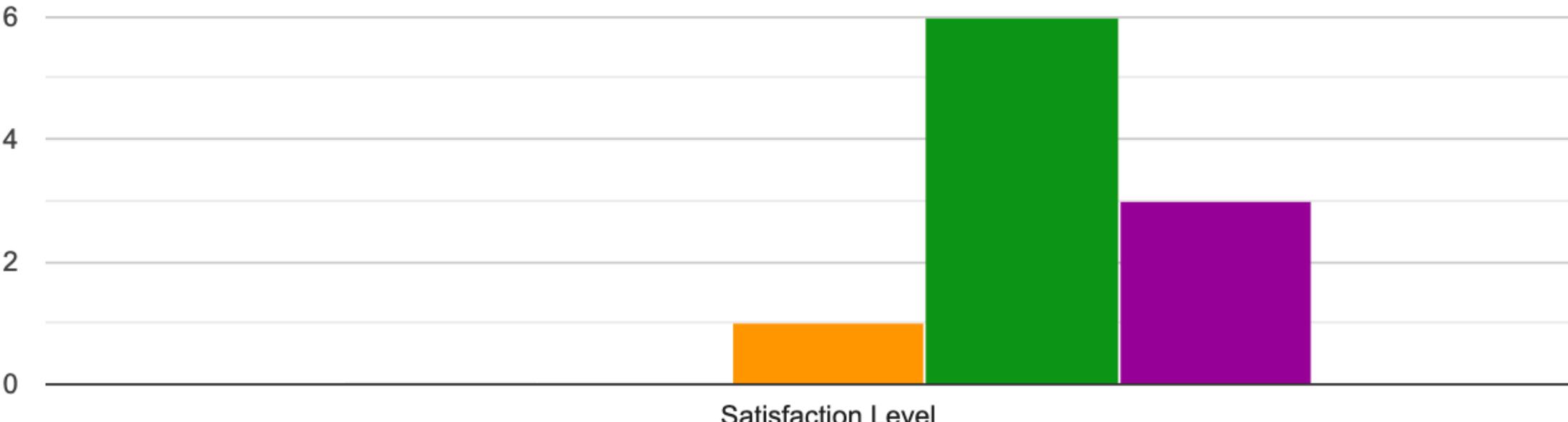
## 5. User Feedback - Total 10 participants



Copy chart

14. How satisfied are you overall with your experience on AIT Match?

Very Unsatisfied   Unsatisfied   Neutral   Satisfied   Very Satisfied



# USER COMMENTS AND SUGGESTIONS

## BUGS

- The age range sliding bar does not update in real time*



## UX

- Should add calendar for setting birthday for ease*
- High learning curve*
- The age range sliding bar is confusing.*
- Should feedback for dropdown selection*
- Too many buttons in the navigation bar, some could be combined*

## UI

- Colors look dull and not vibrant.*
- Chat room looks boring*
- Drop down looks boring*
- CSS animation can be improved*
- CSS in the chatroom was broken*

## SECURITY

- Password can be anything*
- Improve admin feature*
- Too much information shown in the profile*



UI/UX



# CHALLENGES

01

## **Google Authentication and SMTP Email**

Google's updated security measures after September 30, 2024, no longer support simple username and password authentication for Gmail SMTP, making it challenging to configure email notifications and verify sender emails for password resets in Devise.

02

## **Google Drive Integration for Profile Pictures**

I initially used Google Drive for profile pictures but switched to Imgur due to limitations, only to face access issues on the CSIM server, so I ultimately adopted Active Storage for better image management.

03

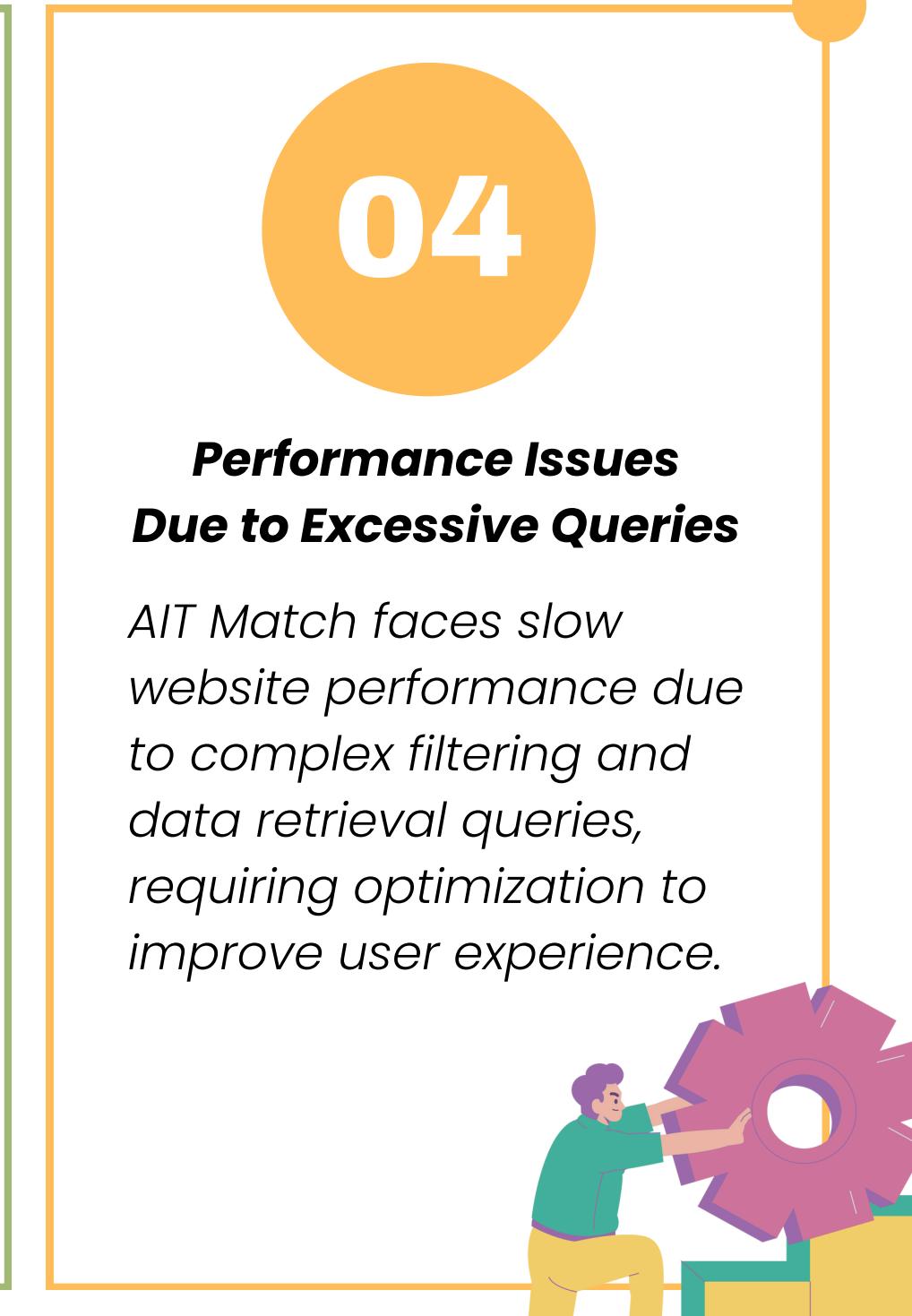
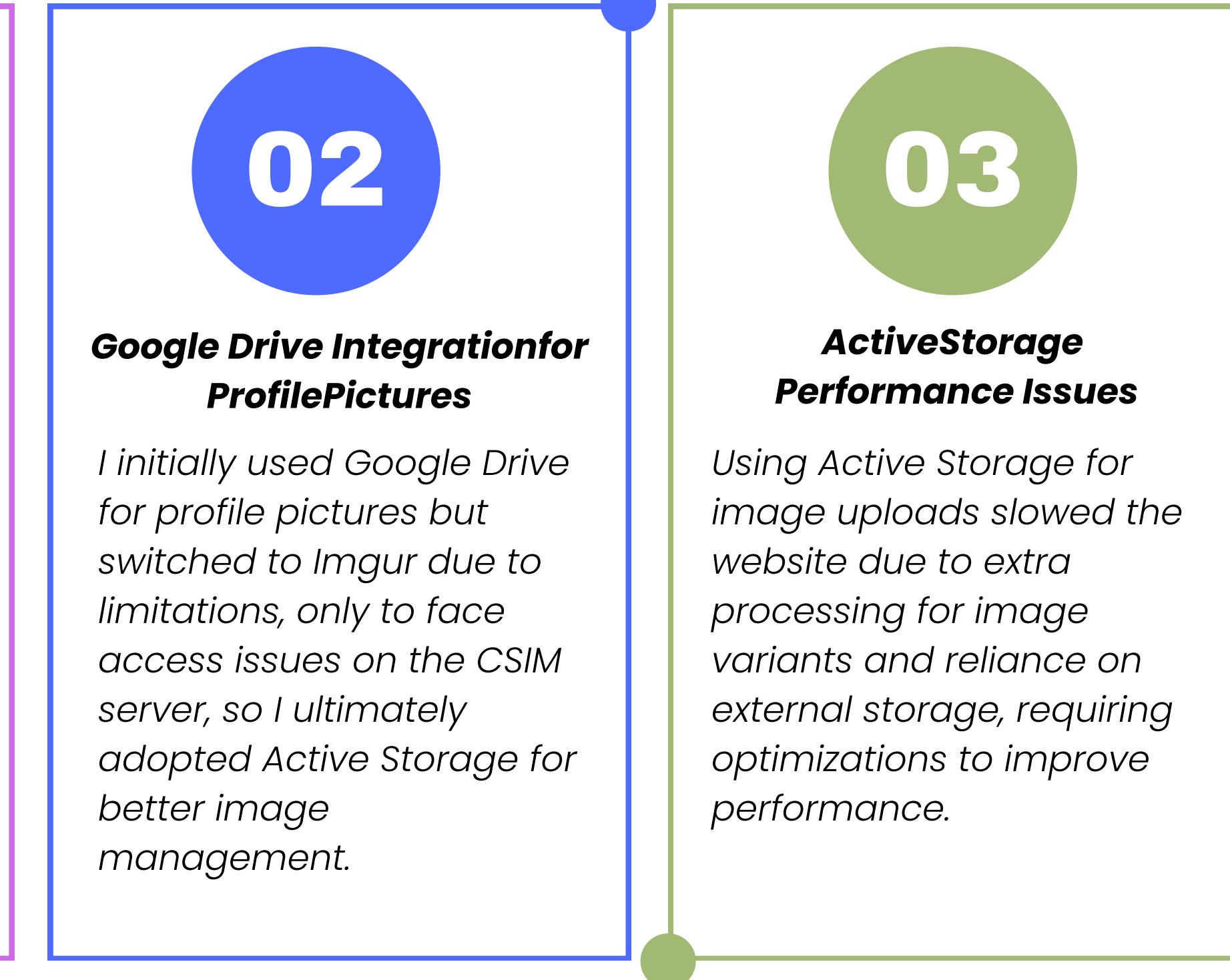
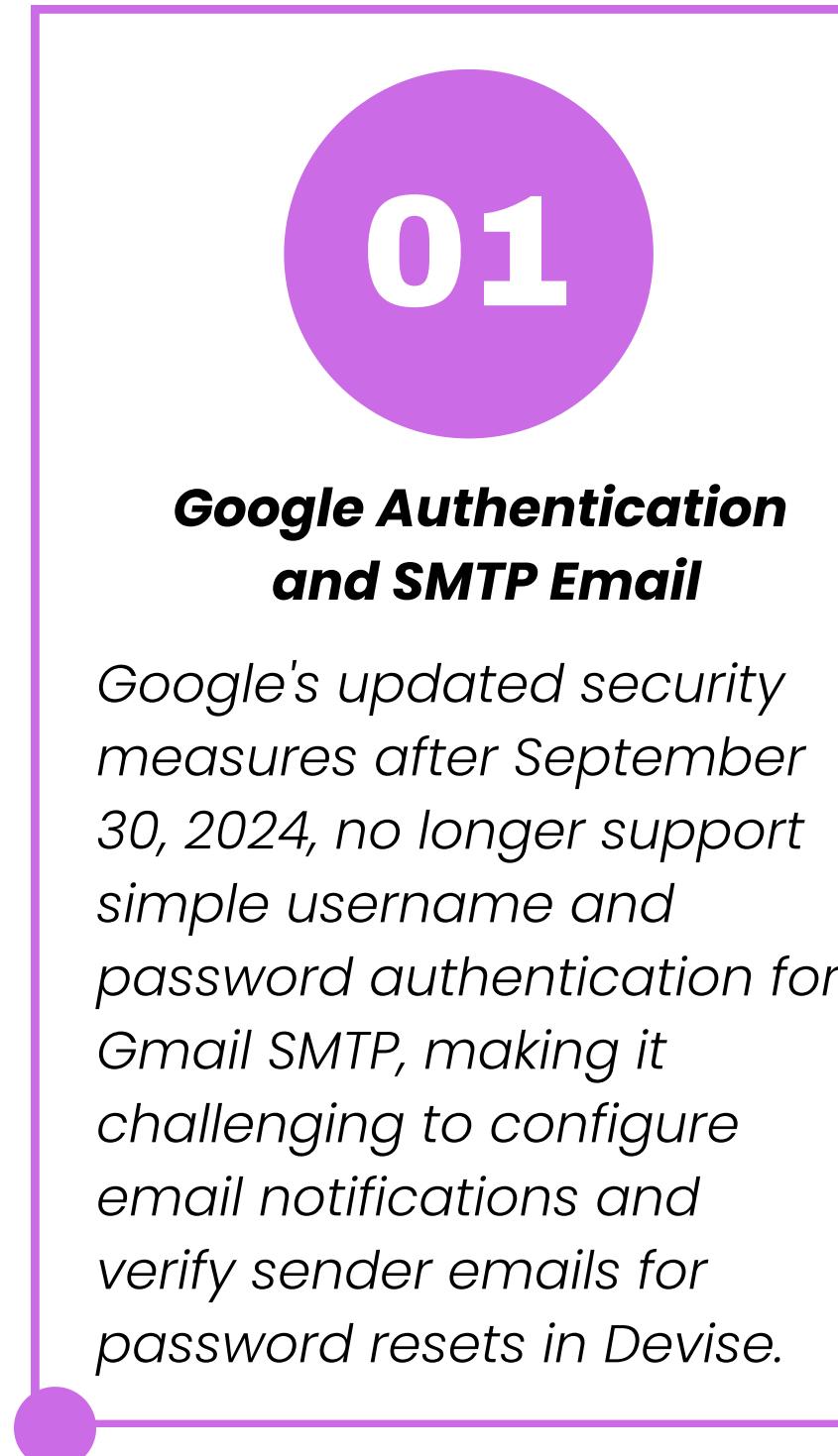
## **ActiveStorage Performance Issues**

Using Active Storage for image uploads slowed the website due to extra processing for image variants and reliance on external storage, requiring optimizations to improve performance.

04

## **Performance Issues Due to Excessive Queries**

AIT Match faces slow website performance due to complex filtering and data retrieval queries, requiring optimization to improve user experience.



## 5. Challenges and Future Work



### FUTURE WORK

01

#### ***Expansion to Other Universities***

Expand the platform's accessibility beyond AIT, enabling students from other universities in Thailand to join and fostering a more diverse and engaged community.

02

#### ***User Ban System***

Implementing a ban feature allows administrators to temporarily restrict user access instead of permanently deleting accounts, offering a more flexible way to manage user behavior.

03

#### ***Filter Inappropriate Words in Chat***

Adding filters to block inappropriate words in the chat system ensures a respectful and safe communication environment for all users.

04

#### ***Chat Functionality between Users and Admin***

Introducing direct communication channels for reports will improve support by allowing users to inquire about their submissions and administrators to provide updates effectively.



# FUTURE WORK CONT.



05

### ***Addition of Events, Blogs, Posts, and Comments***

*Adding features for creating and sharing events, blogs, posts, and comments will transform the platform into a dynamic community hub, encouraging engagement and interaction.*

06

### ***More Customizable Interests***

*Enabling users to customize their interests beyond preset options will improve matching accuracy and enhance user satisfaction by accommodating unique preferences.*

07

### ***Chat with Sending Images and Emojis***

*Expanding the chat functionality to include images and emojis will make conversations more engaging and expressive, enhancing the overall user experience.*



# Q N A

QUESTIONS



**THANK YOU**  
FOR YOUR ATTENTION