

## **Pathly – Career Guide**



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## Contents

|   |     |
|---|-----|
| <b>1. Abstract .....</b>                          | 3   |
| <b>2. Introduction: .....</b>                     | 3   |
| <b>3. Problem Statement.....</b>                  | 6   |
| <b>4. Objectives.....</b>                         | 6   |
| <b>5. Vision:.....</b>                            | 6   |
| <b>6. Scope and Features .....</b>                | 7   |
| <b>Key features: .....</b>                        | 7   |
| <b>7. Tools and Techniques .....</b>              | 8   |
| <b>Software Tools and Technologies .....</b>      | 8   |
| <b>Hardware Tools and Technologies:.....</b>      | 8   |
| <b>8. Proposed Methodology/System.....</b>        | 9   |
| <b>9. Related Work .....</b>                      | 10  |
| <b>Comparison of Existing Systems:.....</b>       | 11  |
| <b>10. Team Members and Individual Tasks.....</b> | 16  |
| <b>11. Timeline/Gantt Chart.....</b>              | 17  |
| <b>12. Data Gathering Approach .....</b>          | 18  |
| <b>13. Functional Requirements.....</b>           | 19  |
| <b>14. Business Requirements .....</b>            | 21  |
| <b>15. Business Rules.....</b>                    | 22  |
| <b>16. Non-Functional Requirements.....</b>       | 23  |
| <b>17. External Interface .....</b>               | 24  |
| <b>18. Physical Product Requirements .....</b>    | 25  |
| <b>19. Development Constraints.....</b>           | 25  |
| <b>20. Wire Frames: .....</b>                     | 26  |
| <b>21. Use Cases.....</b>                         | 47  |
| <b>22. User Stories: .....</b>                    | 744 |
| <b>23. Story Board.....</b>                       | 777 |
| <b>24. References:.....</b>                       | 777 |

## 1. Abstract

In Pakistan, career counselling for intermediate-level students is largely informal and difficult to access, leading many students to make important academic decisions without structured guidance or awareness of suitable opportunities. Existing global career guidance platforms provide generalized suggestions and do not account for Pakistan's university admission criteria, aggregate calculations, or board-specific result systems. **Pathly** addresses this gap by offering a web-based career counseling platform that calculates students' aggregate scores and generates personalized university program suggestions based on their academic records and stated preferences. The system also provides secure, one-on-one communication between students and verified Career Counselors for tailored guidance—replacing the traditionally manual and inconsistent counseling process. To maintain accuracy and data integrity, Admins oversee counselor verification and system governance, while University Ambassadors request updates to the database to include newly recognized universities and programs. By combining localized academic data, expert support, and structured decision-making tools, Pathly enables students to make informed and confident educational choices without missing suitable admission opportunities within Pakistan's higher education landscape.

## 2. Introduction:

Choosing the right university program after completing intermediate education is a crucial step that shapes a student's academic and professional future. However, many students struggle during this phase due to limited awareness, insufficient guidance, and the absence of structured resources to support informed decision-making. In Pakistan, career counseling services at this level are scarce, informal, and often inaccessible to the majority of students, especially those from non-urban regions. As a result, students frequently rely on family opinions, peer suggestions, or guesswork rather than informed evaluation of their academic strengths and available options.

The core problem lies in the lack of a centralized, credible, and student-focused career counseling system that aligns university admissions with individual student profiles. Students often miss eligibility-based opportunities simply because they are unaware of the admission criteria, required aggregates, or program structures of various universities. Additionally, many students hesitate to seek help from counselors in person due to cost, time, or availability barriers. This gap leaves a large population of students making decisions without guidance, increasing the risk of misalignment between their capabilities, interests, and chosen academic paths.

There are a few Pakistan-based career guidance platforms that provide general advice, university information, and merit details to students; however, they often lack personalized guidance or real-time counselor interaction. Platforms such as **MeraFuture**, **EduVision**, and **CampusGuru** offer career information, university lists, and admission news, but they do not

combine automated aggregate calculation, personalized program recommendations, and secure one-on-one counseling within a single integrated system. Their guidance is mostly either generic, static, or dependent on external navigation, requiring students to manually compare options and interpret admission criteria on their own.

The screenshot shows the Merafuture.pk website with a navigation bar at the top featuring links for HOME, APTITUDE TEST, FREE COURSES, LOGIN / REGISTER, and social media icons (Facebook, Instagram, YouTube, LinkedIn). A prominent yellow button labeled "TAKE TEST" is also visible. Below the navigation is a section titled "FAQ's?" with a sub-section header "Frequently Asked Questions". Under this, there are several questions listed with small icons next to them. A detailed answer is provided for the first question: "WHAT IS CAREER COUNSELLING?". The answer explains that their services involve an online comprehensive test matching users with career fields, followed by a detailed Career Assessment Report (CAR) guiding them in choosing a suitable undergraduate field and degree. It also mentions in-person sessions with industry mentors.

The screenshot shows the CampusGuru website. The top navigation bar includes links for NEWS, VIDEOS, INSTITUTE, ADMISSION, COMPARISON, SCHOLARSHIP, NEWS & UPDATES, EXAM PREPS, VOCATIONAL HUB, and BLOGS. There are also SIGN UP and LOGIN buttons. The main banner features illustrations of a teacher, a globe, a classical building, a graduation cap, and books, with the text "UNIVERSITY" and "Take the first step towards your professional life. Find the institution best fit for you". Below the banner, a breadcrumb trail shows "Home > University". A sidebar on the left contains a "Filter your search" section with dropdown menus for Cities, Affiliations, Levels of Education, Academic Programs, Departments, Sessions, Institute Ownerships, Admission Types, and Campus Facilities. The main content area displays a grid of university cards. One card for Aga Khan University is shown in detail: "Aga Khan University" with "THE AGA KHAN UNIVERSITY" logo, "Karachi / Main Campus", "Merit | May", an "Add to Compare" checkbox, and a "View Detail" button. Other cards include Commecs Institute Of Business & Emerging Technologies, DHA Sufa University, Baqai Medical University, Dawood University of Engineering & Technology, and Dow University of Health Sciences. To the right of the cards is a vertical column of social media sharing icons for LinkedIn, Facebook, Twitter, and Pinterest.

The screenshot shows the EduVision website's ranking section. At the top, there are tabs for Home, Career Planning, Programs, Institutions, Admissions, Ranking, Scholarship, News, Jobs, Entry Test, Past Papers, Overseas, and Career. Below these, a teal bar says "ALL PAKISTAN SCHOOLS AND COLLEGES RANKING". Underneath, a dark blue header says "SCHOOL AND COLLEGE ACADEMIC RANKING" with four filter buttons: "AREA WISE RANKING", "BOARD WISE RANKING", "RANKING OF CHAINS", and "GENDER WISE RANKING". Below this are two sections: "Top Inter Colleges in Islamabad" (listing 1-5) and "Top Matric Schools in Islamabad" (listing 1-5). To the right is an advertisement for "Redeem a Pakistani Student STUDY GRANT" from Middlesex University Dubai, with a red "APPLY TODAY" button and social sharing icons. A sidebar on the right shows a "Career Counseling Session" with details: Duration (Online): 45 Minutes, Duration (In-Person): 2 Hours, Cost: PKR: 4,000/-, and a red bell icon.

[ EduVision — [1] ]

[CampusGuru — [2] ]

[MeraFuture —[3]]

**Pathly** introduces a novel approach by combining personalized academic evaluation with secure access to certified Career Counselors through a unified online platform. The system calculates students' aggregate scores based on their academic records and uses this information to generate tailored university suggestions specifically within the Pakistani higher education context. Additionally, verified counselors are available for one-on-one guidance, and University Ambassadors continuously expand and update university entries to ensure the system remains

current and comprehensive. Unlike existing informal or generalized solutions, Pathly provides structure, data integrity, and verified guidance in a single accessible platform.

The proposed system benefits students by reducing confusion, diminishing reliance on unreliable sources, and increasing the likelihood of selecting programs aligned with their academic strengths and aspirations. It ensures students do not miss suitable university opportunities and promotes informed, confident decision-making. Beyond individual support, Pathly can be applied in schools, colleges, and educational advising centers to streamline guidance processes, improve access to counseling, and promote a more equitable approach to higher education planning across the country.

### **3. Problem Statement**

Students seeking university admission in the local market lack a trusted, integrated digital solution. Existing guidance is ineffective because all essential university data (merit lists, program details, and criteria) are fragmented across numerous non-compliant sources, making accurate comparison and decision-making time-consuming and difficult. Furthermore, there is no system to provide accurate, instant aggregate calculation based on local board rules, or to facilitate secure access to vetted career counselors, leaving students vulnerable to inaccurate advice and preventing them from securing their optimal academic future.

### **4. Objectives**

The primary objective of Pathly is to provide a reliable and structured career guidance platform that assists intermediate-level students in Pakistan with informed university selection. By accurately calculating student aggregates, matching them with suitable university programs, and offering direct communication with approved Career Counselors, the system aims to reduce uncertainty, prevent missed opportunities, and support students in making confident and well-aligned higher education decisions, all while being managed through a secure and organized administrative panel.

### **5. Vision:**

The vision of Pathly is to create an accessible and reliable digital career guidance environment where students can make informed academic decisions with confidence. By integrating accurate academic assessment, personalized university recommendations, and direct interaction with qualified career counselors, Pathly aims to bridge the gap between students' aspirations and

available opportunities. The platform seeks to empower learners to explore suitable academic paths, avoid missed opportunities, and transition smoothly into higher education with clarity and support.

## **6. Scope and Features**

The system aims to realize the vision of providing a centralized career guidance platform where students can explore academic options, calculate aggregates, and receive personalized advice through direct communication with verified counselors. It also enables Ambassadors to contribute by suggesting new universities and allows Admins to supervise platform activity, ensuring reliability, trust, and accuracy within the counseling process.

The system does not conduct actual university admissions, financial transactions, direct university system integrations, or develop standalone mobile applications at this stage. Real-time entrance examination preparation and AI-based predictive counseling are also excluded from the current scope.

### **Key features:**

1. Students can create and manage their profile, calculate aggregates, and access personalized university suggestions.
2. Students can chat privately with approved counselors for academic and career guidance.
3. Counselors can create profiles, interact with students, and provide tailored counseling support.
4. Ambassadors can submit requests for adding new universities to diversify and expand student options.
5. Admins can approve or reject counselor registrations and respond to ambassador university requests.
6. Admins can monitor misconduct, issue warnings, and delete counselor accounts if necessary.
7. The system sends email and notifications to keep users informed of updates.
8. The platform provides external links to official university websites for application submission.

## **7. Tools and Techniques**

### **Software Tools and Technologies**

The development of *Pathly* involves the use of the following software tools and technologies to support system implementation, interface design, data management, authentication, and reliable platform deployment:

- **Programming Language:** Python
- **Web Framework:** Flask (for backend server-side logic and routing)
- **Frontend Technologies:** HTML5, CSS3, Bootstrap (for responsive and user-friendly interface design)
- **Templating Engine:** Jinja2 (for rendering dynamic web content)
- **Database Management System:** SQLite (for storing user accounts, counselor records, university data, and chat logs)
- **Authentication & Security:** Flask-Login, data validation mechanisms, and role-based access control (ensuring secure and structured platform usage)
- **Additional Libraries / Tools:** JavaScript (to support interactive UI behavior and real-time chat features)
- **Deployment Platform:** Heroku Cloud Platform (for hosting the web application and ensuring high availability and remote accessibility)

### **Hardware Tools and Technologies:**

Since *Pathly* is a web-based application designed specifically for desktop usage, it does not require installation or local storage on user devices. The primary hardware requirements apply to the development environment and the desktop devices used to access the system.

### **Development Machine Requirements:**

- Processor: Intel Core i3 or higher
- RAM: 4GB or more
- Operating System: Windows / Linux / macOS
- Stable internet connection for system development, testing, and deployment

### **End-User Devices (Students, Counselors, Ambassadors, Admin):**

- Desktop or Laptop Computer
- Modern web browser (Chrome, Firefox, Edge, Safari)
- Reliable internet connection to access the platform.
- Screen resolution suitable for full-page web view (minimum recommended: 1366×768)

Because the system is hosted online via **Heroku**, no physical server hardware is required, reducing setup and maintenance costs.

## 8. Proposed Methodology/System

The development of Pathly will follow the Agile Software Development Methodology, chosen for its iterative approach and flexibility to adapt to changing requirements. Since career counseling needs and platform expectations may evolve based on real user feedback, Agile will allow the system to improve continuously while maintaining user-centered design and functionality.

### Requirements

User needs will be collected from all proposed roles—Students, Counselors, Admin, and University Ambassadors. This phase will focus on understanding platform goals, identifying essential features, defining data requirements, and clarifying role-based interactions to ensure all functional expectations are captured.

### System

The overall architecture, user interface layout, and database schema will be planned. Features will be divided into small development modules to support phased implementation. Wireframes, system diagrams, and user flow charts will be created to ensure clarity and feasibility while maintaining flexibility for changes in subsequent iterations.

### Implementation

The system will be built in iterative cycles. Each cycle will focus on implementing a functional module, starting with core features like authentication, dashboards, and role-based access. Subsequent cycles will expand functionality to advanced features such as personalized university suggestions, counselor-student chat, and reporting modules. Each iteration will produce a testable and deployable increment of the system.

### Testing

Every module will undergo unit testing, integration testing, and usability testing. Errors, bugs, or inconsistencies identified will be resolved immediately within the same iteration. Security, data accuracy, and system performance will also be validated. Feedback from testing will guide adjustments in the next cycle to ensure continuous improvement.

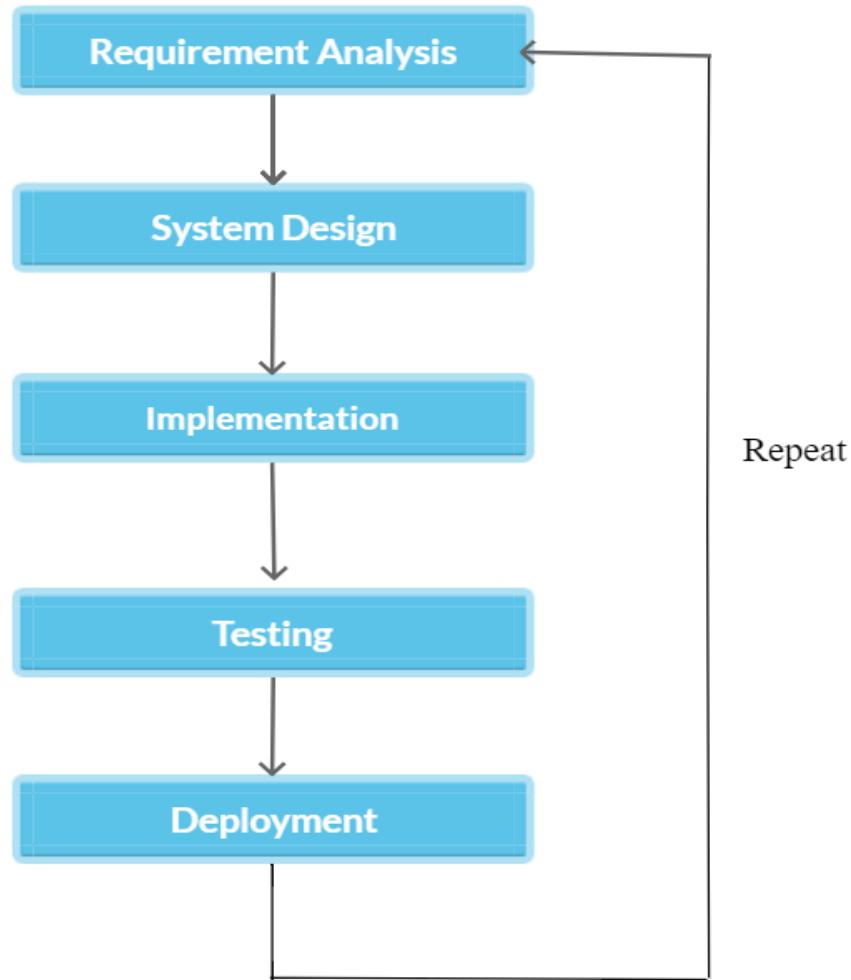
### Deployment

Deployment will follow a phased and iterative approach. Each completed and tested module will be deployed incrementally to a staging or production environment. User feedback and real-world usage will be continuously monitored, and necessary adjustments will be implemented in subsequent iterations. This approach ensures that Pathly remains functional, reliable, and user-

### Analysis

### Design

friendly at every stage, while allowing the system to evolve based on actual user needs and operational insights.



## 9. Related Work

| System Name   | Main Features   | Limitations(Compared to Pathly)  |
|---------------|---|--|
| EduVision [1] | Provides university admission guidance, merit calculators, scholarship details, and program search tools. | Does not offer personalized counselor-student chat; lacks role-based user access; guidance is mostly static rather than interactive. |

|                       |   |   |
|-----------------------|---|---|
| <b>CampusGuru [2]</b> | Offers school/college/university listings, fee comparisons, admission updates, and institutional ratings/reviews. | Does not provide aggregate-based university matching; no built-in career counseling session system; lacks live student guidance features.                           |
| <b>MeraFuture [3]</b> | Use a career personality assessment quiz to suggest possible career paths and fields for students.                | Focuses only on career personality suggestions, not actual university recommendations; does not support persistent counselor-student messaging or admin monitoring. |

### **Comparison of Existing Systems:**

#### **EduVision:**

**Eduvision** is an online educational guidance platform that provides information on universities, admission criteria, academic programs, scholarships, and general career advice for students in Pakistan. It allows users to explore degree options and stay updated with admission announcements. The platform offers both free resources and paid career counseling services, where personalized guidance can be accessed through subscription or consultation fees.

However, Eduvision largely functions as an informational directory and does not automatically calculate student aggregates or generate personalized university suggestions based on academic performance. It also does not provide a structured, real-time communication system between students and verified counselors, nor does it include counselor approval or monitoring features. As a result, while Eduvision is helpful for browsing opportunities, it lacks the interactive, data-driven decision support and secure counselor-student engagement that **Pathly** aims to deliver.

EDUVISION - APTITUDE ASSESSMENT FOR CAREER PLANNING

**eduvision** SINCE 2001  
CAREER PLANNING - EDUCATIONAL SERVICES

HOME CAREER PLANNING PROGRAMS INSTITUTIONS ADMISSIONS RANKING SCHOLARSHIP NEWS JOBS ENTRY TEST PAST PAPERS OVERSEAS CAREER

ALL PAKISTAN SCHOOLS AND COLLEGES RANKING

SCHOOL AND COLLEGE ACADEMIC RANKING

AREA WISE RANKING BOARD WISE RANKING

RANKING OF CHAINS GENDER WISE RANKING

Top Inter Colleges in Islamabad

1. Punjab College (I-8/4), Islamabad
2. Pak-Turk International School & College, Islamabad
3. Bahria College, Zafar Campus, Islamabad
4. Islamabad College For Girls, Islamabad
5. Islamabad Model College For Girls/ Postgraduate (I-7/2)

Top Matric Schools in Islamabad

1. Opf Girls College, Islamabad
2. Uswa College[shala], Islamabad
3. Ali Trust College, Islamabad
4. Dhai Army Public School, Islamabad
5. Sls Montessori And S ^ Islamabad

Redeem a Pakistani Student STUDY GRANT

Middlesex University Dubai APPLY TODAY

1.9k Shares

Career Counseling Session

Duration (Online): 45 Minutes  
Duration (In-Person): 2 Hours  
Cost: PKR: 4,000/-

1.9k Shares

Middlesex University Dubai APPLY TODAY

1.4k Shares

Career Counseling Session

Duration (Online): 45 Minutes  
Duration (In-Person): 2 Hours  
Cost: PKR: 4,000/-

✓ Personalized Career Plan  
✓ Expert Aptitude & Personality Assessment  
✓ Scholarship & Admission Guidance  
✓ IQ Assessment  
✓ EQ Assessment  
✓ Personality Traits, Likes and Dislikes  
✓ Abilities Assessment  
✓ Skills Analysis  
✓ Aptitude Matching with 900+ Careers  
✓ After the Aptitude assessment 6 Page complete report is shared with the students.  
✓ **Familial Issues:** Parental expectations, financial struggles, lack of family support.  
✓ **Social Issues:** Peer pressure, lack of confidence, communication barriers, cultural challenges.  
✓ **Academic Issues:** Low grades, lack of motivation, exam stress, time management difficulties.

Workshop Seminar Counseling

The screenshot shows the Eduvision website's homepage. At the top, there's a navigation bar with links like HOME, CAREER PLANNING, PROGRAMS, INSTITUTIONS, ADMISSIONS, RANKING, SCHOLARSHIP, NEWS, JOBS, ENTRY TEST, PAST PAPERS, OVERSEAS, and CAREER. Below the navigation is a banner for 'ALL COLLEGES AND UNIVERSITY ADMISSION 2025 IN PAKISTAN'. This banner includes a green section for 'Admission Open in 86 Colleges and Uni' with various admission categories like Undergraduate Admission, MBA Admission, Data Science Universities, BS Data Science Admission, etc. To the right of this is a sidebar for 'SCHOLARSHIP' which lists categories such as All Latest Scholarships, HEC Local Scholarships, HEC Overseas Scholarships, PEEF Scholarships, Undergraduate Scholarships, MS/MPhil Scholarships, Engineering and IT Scholarships, Medical Scholarships, Merit Scholarships, and Need Based Scholarships. On the far right, there's an advertisement for 'OVER 30 Undergraduate Programmes' at Middlesex University Dubai with a 'APPLY TODAY' button. A social sharing sidebar on the right indicates 113k shares with links for Facebook, Twitter, Email, and Print.

## CampusGuru:

**CampusGuru** is an educational information platform that allows users to explore universities, colleges, schools, and training institutions across Pakistan. It provides details such as available programs, campus locations, admission updates, and institutional rankings. The platform is primarily used to search and compare educational institutes, helping students gain a broad understanding of available study options. CampusGuru's core services are generally accessible for free, making it easy for students to browse and collect information at no cost.

However, CampusGuru mainly serves as a directory and does not provide personalized academic guidance or program recommendations based on student grades or interests. It does not calculate aggregates, match students with suitable universities, or facilitate direct one-on-one communication with verified career counselors. Additionally, there is no system for monitoring counselor-student interactions or ensuring guidance quality. Therefore, while CampusGuru is helpful for searching institutions, it lacks the tailored, counselor-supported, and data-driven decision-making features that Pathly offers.

**CAMPUS guru**

NEWS ▾ VIDEOS INSTITUTE ▾ ADMISSION COMPARISON SCHOLARSHIP ▾ NEWS & UPDATES ▾ EXAM PREPS ▾ VOCATIONAL HUB ▾ BLOGS

SIGN UP LOGIN 



Take the first step towards your professional life. Find the institution best fit for you

Home > University

Filter your search

- Cities
- Affiliations
- Levels of Education
- Academic Programs
- Departments
- Sessions
- Institute Ownerships
- Admission Types
- Campus Facilities

441 institutes are offering your choice of academic programs.

|   |   |
|---|---|
|  <b>Aga Khan University</b><br>Karachi / Main Campus<br>Merit - May                                      |  <b>Baqai Medical University</b><br>Karachi / Main Campus<br>Aptitude Test - Translations.Spring |
|  <b>CommeCS Institute Of Business &amp; Emer...</b><br>Karachi / Main Campus<br>Aptitude Test - February |  <b>Dawood University of Engineering &amp; Te...</b><br>Karachi / Main Campus<br>Merit - August  |
|  <b>DHA Suffa University</b><br>Karachi / Main Campus  |  <b>Dow University of Health Sciences</b><br>Karachi / Main Campus                               |



**CAMPUS guru**

NEWS ▾ VIDEOS INSTITUTE ▾ ADMISSION COMPARISON SCHOLARSHIP ▾ NEWS & UPDATES ▾ EXAM PREPS ▾ VOCATIONAL HUB ▾ BLOGS

SIGN UP LOGIN 



# COMPARE INSTITUTION

Narrow down your favorite institute with the help of our tools and compare them side by side

Home > Comparison

| Description           |  COMSATS University |  University of Engineering & Technology (UET), Lahore |  |
|-----------------------|--|--|---|
| General Information   |  |  |   |
| City                  | Rawalpindi   | Lahore   | ---   |
| Institute Type        | Private  | Public   | ---   |
| Student Faculty Ratio | N/A  | N/A  | ---   |
| Foreign Affiliations  | N/A  | Washington Accord  | ---   |
| Email                 | info@ciitwah.edu.pk  | registrar@uet.edu.pk   | ---   |

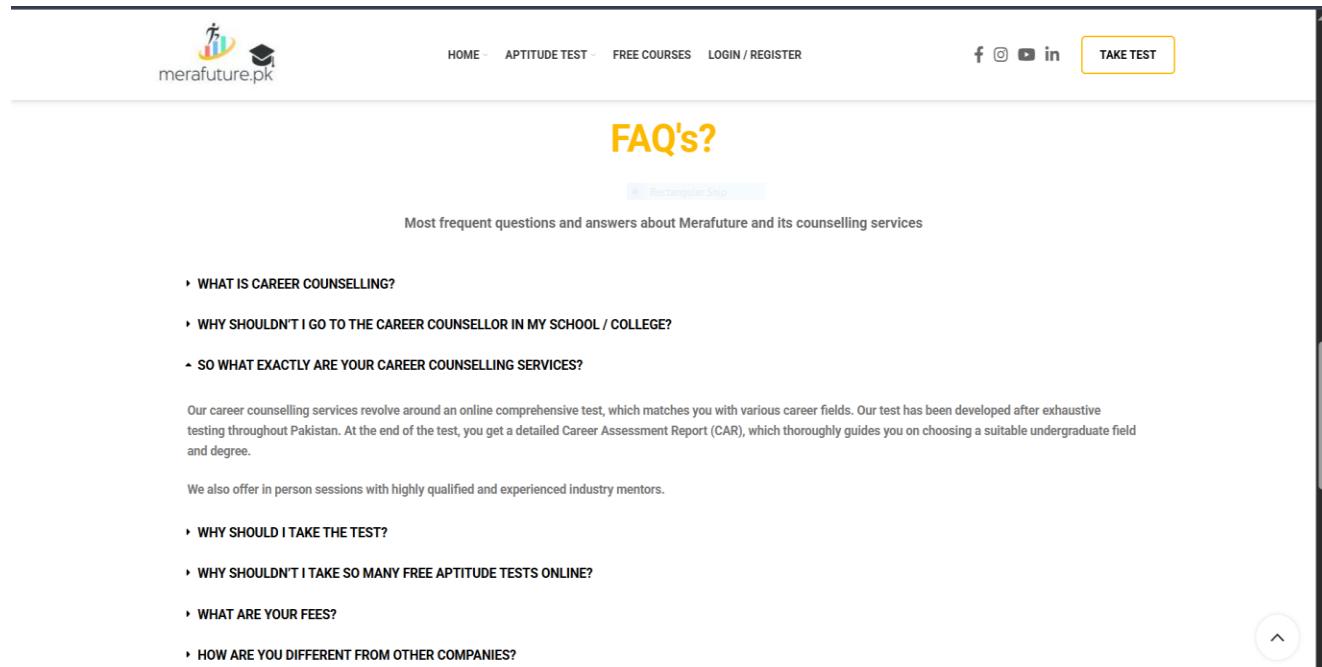


## MeraFuture:

**MeraFuture** is a career guidance platform that provides students with psychometric testing and personality assessments to help them identify suitable career paths. It offers counseling services, career-related articles, and general guidance for future planning. The website's core feature is its

*aptitude and personality test*, which is available as both free and paid versions, depending on the depth of results and consultation required. Through these assessments, students receive a broad understanding of careers that may align with their interests and abilities.

However, MeraFuture focuses primarily on psychological profiling rather than academic eligibility or university admissions. It does not calculate student aggregates nor generate university program suggestions based on academic results and current merit trends. It also lacks a system for structured, real-time chat between students and approved counselors, and does not include administrative validation or monitoring of counseling interactions. Therefore, while MeraFuture can help students understand their personality-driven career direction, it does not provide the personalized, data-driven university selection and counselor support system that **Pathly** is designed to deliver.



The screenshot shows the MeraFuture website's FAQ page. At the top, there is a navigation bar with links for HOME, APTITUDE TEST, FREE COURSES, LOGIN / REGISTER, and social media icons (Facebook, Instagram, YouTube, LinkedIn). A prominent yellow button labeled "TAKE TEST" is also visible. Below the navigation, the title "FAQ's?" is displayed in large, bold, yellow letters. Underneath the title, a subtitle reads "Most frequent questions and answers about Merafuture and its counselling services". The page lists several frequently asked questions in a bulleted format:

- WHAT IS CAREER COUNSELLING?
- WHY SHOULDN'T I GO TO THE CAREER COUNSELLOR IN MY SCHOOL / COLLEGE?
- SO WHAT EXACTLY ARE YOUR CAREER COUNSELLING SERVICES?

Below these questions, a detailed answer is provided: "Our career counselling services revolve around an online comprehensive test, which matches you with various career fields. Our test has been developed after exhaustive testing throughout Pakistan. At the end of the test, you get a detailed Career Assessment Report (CAR), which thoroughly guides you on choosing a suitable undergraduate field and degree." Another short statement follows: "We also offer in person sessions with highly qualified and experienced industry mentors."

- WHY SHOULD I TAKE THE TEST?
- WHY SHOULDN'T I TAKE SO MANY FREE APTITUDE TESTS ONLINE?
- WHAT ARE YOUR FEES?
- HOW ARE YOU DIFFERENT FROM OTHER COMPANIES?



[HOME](#) [APTITUDE TEST](#) [FREE COURSES](#) [LOGIN / REGISTER](#)

f i y in

TAKE TEST

## How to take MCCT?

Our Multidimensional Career Counselling Test (MCCT) can be taken via our systematic procedure so you can take an informed decision.



Register and Complete Your Profile



Take the Multidimensional Career Counselling Test (MCCT)



Instantly Get Your Career Assessment Report (CAR)

[SAMPLE CAREER ASSESSMENT REPORT](#)

## Proposed System(Pathly):

**Pathly** is a web-based career counseling platform designed to bridge the gap between academic performance and informed higher education decision-making. Unlike existing systems that primarily provide broad information or generalized career advice, Pathly generates personalized university program suggestions based on a student's academic results and current merit criteria. It further offers a secure, one-on-one chat channel where students can interact directly with verified Career Counselors for tailored guidance. To ensure reliability and trust, the system includes Admin oversight to approve, monitor, and manage counselor activity, as well as contributions from University Ambassadors who request updates to university offerings to keep information relevant. By integrating data-driven recommendations, expert support, and controlled platform governance, Pathly provides a more accurate, interactive, and supportive guidance experience, making it significantly more beneficial for students who may otherwise miss suitable academic opportunities due to lack of structured counseling resources.

## 10. Team Members and Individual Tasks

| Syed Ali Hamad  | Saman Naz   | Rida Shehzad  |
|---|---|---|
| <ul style="list-style-type: none"> <li>● Software Tools and Technologies</li> <li>● Hardware Tools and Technologies</li> <li>● Wireframes</li> <li>● User Requirements</li> <li>● Storyboard</li> <li>● External Interfaces</li> <li>● Development Constraints</li> </ul> | <ul style="list-style-type: none"> <li>● Abstract</li> <li>● Problem Statement</li> <li>● Objectives</li> <li>● Vision</li> <li>● Scope and Features</li> <li>● Proposed Methodology/System</li> <li>● Related Work</li> <li>● Non-Functional Requirements</li> <li>● User Stories</li> <li>● Business Rule</li> <li>● Business Requirements</li> </ul> | <ul style="list-style-type: none"> <li>● Abstract</li> <li>● Introduction</li> <li>● Use Cases</li> <li>● References</li> <li>● Gantt Chart</li> <li>● Individual Tasks</li> <li>● Data Gathering Approach</li> <li>● Functional Requirements</li> <li>● Physical Product Requirements</li> </ul> |

## 11.Timeline/Gantt Chart

| Tasks                 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Requirement Gathering | ✗      | ✗      |        |        |        |        |        |        |        |         |
| Planning              |        | ✗      | ✗      |        |        |        |        |        |        |         |
| Documentation         |        |        | ✗      | ✗      | ✗      | ✗      |        |        |        | ✗       |
| Diagrams              |        |        | ✗      | ✗      | ✗      |        |        |        |        |         |
| Backend Development   |        |        |        | ✗      | ✗      | ✗      |        |        |        |         |
| Frontend Development  |        |        |        |        | ✗      | ✗      |        |        |        |         |
| Database Design       |        |        |        |        |        | ✗      | ✗      |        |        |         |
| User centered Design  |        |        |        |        |        |        | ✗      | ✗      |        |         |
| Testing and debugging |        |        |        |        |        |        |        | ✗      | ✗      |         |
| Finalization          |        |        |        |        |        |        |        |        |        | ✗       |

## 12. Data Gathering Approach

**Real-Time Merit and Academic Data:**  
 Merit lists, admission criteria, aggregate formulas, and eligibility requirements will be collected dynamically from official university websites and admission portals. The system will regularly fetch and update this data to ensure students receive accurate and current

program suggestions without relying on outdated or static merit information.

|   |                     |              |
|---|---------------------|--------------|
| <b>Counselor</b>  | <b>Verification</b> | <b>Data:</b> |
| Counselors will submit their professional profile details, including qualifications, experience, and verification documents, during registration. These details will undergo manual review by the admin through a structured approval workflow. Only verified counselors will be granted platform access, ensuring guidance quality and student safety. |                     |              |

|   |                    |                 |              |
|---|--------------------|-----------------|--------------|
| <b>University</b>   | <b>Program and</b> | <b>Offering</b> | <b>Data:</b> |
| General university information, available degree programs, campus details, and admission timelines will be sourced directly from university web portals. Additionally, University Ambassadors will be able to request updates or additions to programs through the platform interface. All ambassador submissions will require Admin validation before being reflected in the system, maintaining data reliability and consistency. |                    |                 |              |

## 13. Functional Requirements

### 1. Student

1. The system shall allow the student to register to create an account on the portal.
2. The system shall allow the student to log in to his/her account as a student.
3. The system shall allow the student to view his/her aggregate on successfully entering the required information.
4. The system shall allow the student to delete his/her account forever.
5. The system shall allow the student to view and update his/her profile.
6. The system shall allow the student to request a password reset.
7. The system shall allow the student to view his/her dashboard after logging in into his/her account.
8. The system shall allow the student to view the Terms and Conditions of the website portal.
9. The system shall allow the student to set his/her preferences.
10. The system shall allow the student to change/update his/her preferences.
11. The system shall allow the student to view suggested universities.
12. The system allow the student to view merit lists of previous years.
13. The system shall allow the student to apply for admission to the suggested universities based on his/her aggregate.
14. The system shall allow the student to bookmark preferred universities or programs for later review on their dashboard.
15. The system shall allow the student to view available counselors.

16. The system shall allow the student to chat with one of the available counselors.
17. The system shall allow the student to file a complaint about any counselors.
18. The system shall allow the student to log out.

## **2. Admin**

1. The system shall allow the admin to sign-in or log in to their account as an admin.
2. The system shall allow the admin to view and update their profile.
3. The system shall allow the admin to request a password reset.
4. The system allow the admin to view his/her dashboard after logging in into their account.
5. The system shall allow the student to view the Terms and Conditions of the website portal.
6. The system shall allow the admin to approve or reject a counselor.
7. The system shall allow the admin to register a student.
8. The system shall allow the admin to register a counselor.
  
9. The system shall allow the admin to remove/delete a student.
10. The system shall allow the admin to remove/delete a counselor.
11. The system shall allow the admin to view merit lists of previous years.
12. The system shall allow the admin to make public site announcements.
13. The system allow the admin to have the authority to approve or reject a request submitted by a university ambassador for the addition of a new institute.
14. The system shall allow the admin to view available counselors.
15. The system shall allow the admin to log out.

## **3. Counselors**

1. The system shall allow the counselor to register to create an account on the portal.
2. The system shall allow the counselor to login to his/her account as a counselor .
3. The system shall allow the counselor to delete his/her account forever.
4. The system shall allow the counselor to view and update his/her profile.
5. The system shall allow the counselor to request a password reset.
6. The system allow the counselor to view his/her dashboard after logging in into his/her account.
7. The system shall allow the counselor to view the Terms and Conditions of the website portal.
8. The system shall allow the counselor to entertain the student queries.
9. The system shall allow the student to view merit lists of previous years.

## **4. University Ambassador**

1. The system shall allow the University Ambassador to register to create an account on the portal.
2. The system require the Ambassador's account to be approved by the admin before gaining full access.
3. The system shall allow the Ambassador to log in to their account.
4. The system shall allow the Ambassador to view their dashboard after logging in into their account.
5. The system shall allow the Ambassador to submit a request for the addition of a new university (institute) record.
6. The system shall allow the Ambassador to add, edit, or update program details for any university they manage.
7. The system shall allow the Ambassador to view and update their profile.
8. The system shall allow the Ambassador to request a password reset.
9. The system shall allow the Ambassador to log out.

#### **4. System**

1. The system shall require the user to select a user type, i.e. student, counselor, or admin during the initial registration process.
2. The system shall allow the user to register as an admin, student, or counselor.
3. The system shall allow the user to login into his/her existing account.
4. The system shall allow the user to update his/her profile.
5. The system shall validate and securely save all user profile updates, ensuring data integrity across different user roles.
6. The system shall securely receive the student's academic data (roll number, board, etc.), calculate the aggregate based on predefined rules, and store the result for recommendation purposes.
7. The system shall place new Counselor sign-up requests into a pending queue and trigger a notification to the admin for necessary approval or rejection.
8. The system shall receive new university addition requests from a University Ambassador and hold them in a pending state until authorized (approved or rejected) by the Admin.

## **14. Business Requirements**

1. The platform aims to improve the quality of students' university selection decisions by reducing cases of unsuitable or uninformed program choices by at least 30% within the first year.

2. The aggregate calculation and university recommendation process is intended to achieve at least 95% accuracy, minimizing manual calculation errors and confusion about eligibility.
3. All counselors providing guidance on the platform are to be verified before activation, ensuring that students receive support only from credible and qualified guidance providers.
4. The system is expected to reduce the average waiting time for students to receive counseling responses to less than 48 hours, improving accessibility and support efficiency.
5. The platform will ensure up-to-date admission data, deadlines, and program information so that students do not miss eligible opportunities, targeting zero outdated admission data at any point during the admission cycle.
6. To promote wider access to structured counseling, the platform aims to successfully support at least 1,000 active student users during the initial deployment phase, with scalability for growth.

## **15. Business Rules**

1. Only counselors whose credentials are verified and approved by the admin shall be allowed to interact with students on the platform.
2. Students' academic results, preferences, and chat messages with counselors shall remain confidential and accessible only to the student, the counselor, and Admin when necessary for complaint resolution.
3. Any request submitted by a University Ambassador to add a new university shall be approved or rejected by the admin before it is visible to students.
4. Any counselor found in violation of professional conduct shall have their account suspended or deleted by the admin to maintain platform integrity.
5. University suggestions and eligibility calculations shall be based on verified academic data and standardized aggregate formulas to ensure accurate recommendations.

## **16. Non-Functional Requirements**

### **Response Time:**

Common pages (Dashboard, Profile, University List) must load within 2 seconds under normal load.

### **Utilization:**

Server CPU utilization must not exceed 50% under standard operating.

Conditions.

### **Capacity:**

The database must support up to 1000GB of data with no performance degradation.

### **Login Performance:**

Login authentication and dashboard loading must complete in under 1 second.

### **Suggestion Algorithm Efficiency:**

University suggestion matching must complete and return results within 3 seconds, even when the dataset is large.

### **Scalability:**

- The system must support at least 5,000 simultaneous users without performance degradation.
- The system shall accommodate at least 500 universities added.

### **Data Transmission:**

All communication must use HTTPS encryption .

### **Role-Based Access Control:**

Admin, Counselor, Student, and Ambassador must strictly access only their authorized resources.

### **Data Privacy:**

Chat messages and complaints must be accessible only by intended participants and Admin (when needed).

### **Consistent UI:**

All screens must follow a uniform theme and navigation style.

### **Automatic:**

System must be responsive, and navigation should be done through icons and tabs.

With minimal user input.

### **Uptime:**

The system must be available at least 90% of the time annually.

### **Data Integrity:**

Changes to profile, preferences, and counselor data must be atomic and consistent, preventing partial updates.

**Browser Compatibility:**

Must support Chrome, Firefox, Edge, and Safari.

**External Links Support:**

“Apply Now” university links must open in a new secure browser tab.

**Complaint Confidentiality:**

Complaints must be stored securely and visible only to Admin roles.

**Manageability:**

The system must provide an intuitive dashboard for monitoring and managing all key performance metrics.

**Real-Time Communication**

- The chat system must enable smooth, real-time messaging between students and counselors.
- Messages must be delivered within 1 second under normal server conditions.

**Message Retention:**

- All sent and received messages must be stored securely in the database.
- Messages must remain accessible for future viewing unless deleted as per policy.

**Recoverability:**

The system must recover from failures and restore operations within 30 minutes.

**Chat Privacy:**

- Chat conversations must be visible only to the Student and Counselor, and Admin only when necessary for complaint review.
- No chat content must be shareable publicly from within the system.

**Security:**

- The system must enforce authentication through username and password for all user access.
- The system must prevent impersonation by verifying user identity at login.

**Data Integrity:**

The system must ensure data integrity by performing checksums on all data transfers.

**Timestamp:**

The system must maintain timestamps for every message for dispute tracking.

**Usability:**

- The chat screen must show user profile info and previous messages clearly.
- The messaging box must support basic features like scrolling and message timestamps.
- The interface must be responsive and accessible on desktop devices.

## **17.External Interface**

1. The system should utilize Bootstrap to ensure a responsive and accessible interface.

2. The system shall present a unique, customized dashboard upon login for each user class: Student, Counselor, Admin, and University Ambassador.
3. Student Dashboard: Central hub for aggregate results, university suggestions, and chat access.
4. Counselor Dashboard: Focus on student query management, profile status, and communication history.
5. Admin Dashboard: Focus on user management, approval workflows, and announcements.
6. Ambassador Dashboard: Focus on submission and status tracking of new university data requests.
7. The user interface shall employ intuitive navigation (consistent menus, clear buttons) to ensure usability for non-technical student users.
8. **Integrated Chat Interface:** A dedicated, easy-to-use in-web chat window shall be provided on the Student and Counselor dashboards for direct communication.

## 18.Physical Product Requirements

- The system should be accessible on standard desktop or laptop computers.
- Users should have a stable internet connection to access the web platform.
- Devices used should have an updated web browser (e.g., Chrome, Edge, Firefox).
- No dedicated external storage or hardware devices shall be required.
- The platform shall run on cloud-hosted server infrastructure for deployment and operation.

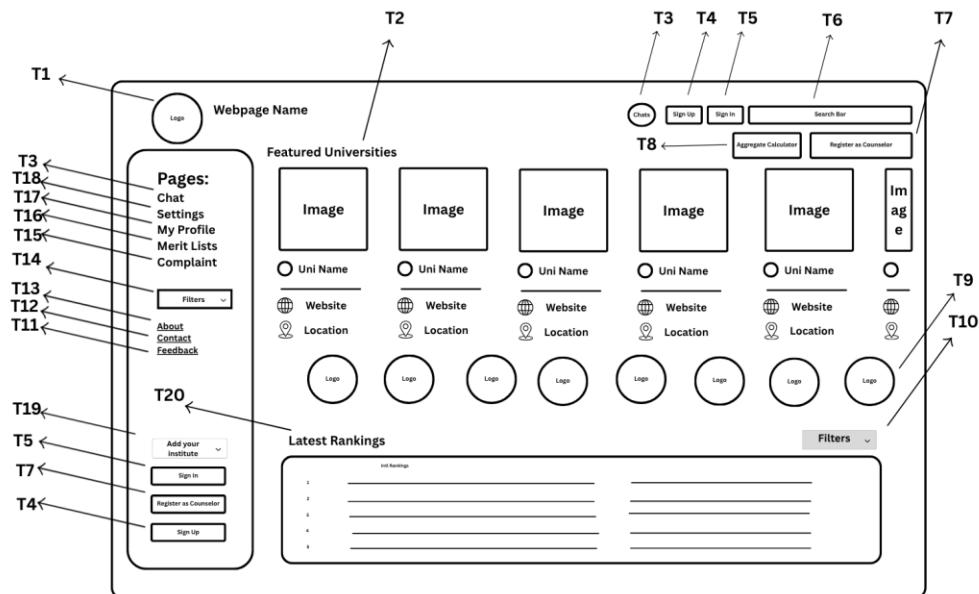
## 19.Development Constraints

- The front-end is developed using HTML5, CSS3, Bootstrap, and JavaScript, which limits interface design to browser-supported UI components and styling capabilities.
- The back end relies on Python (Flask framework), so the system architecture follows Flask's routing structure and server-side request handling model.

- Jinja2 is used for dynamic page rendering, meaning page updates are largely server-driven rather than built on a fully client-side rendering framework.
- The database is built using SQLite, which is suitable for moderate-scale use but may require migration to a more robust DBMS if user volume increases significantly.
- The platform is deployed on Heroku, so overall performance, uptime, and database size are constrained by the hosting plan and Heroku's resource limitations.
- Real-time counselor-student chat is limited to text-based messaging, as advanced communication features like voice or video calling are not included in the current project scope.
- The application is optimized primarily for desktop browser access, and a responsive or dedicated mobile interface is not included in the initial implementation phase.

## 20. Wire Frames:

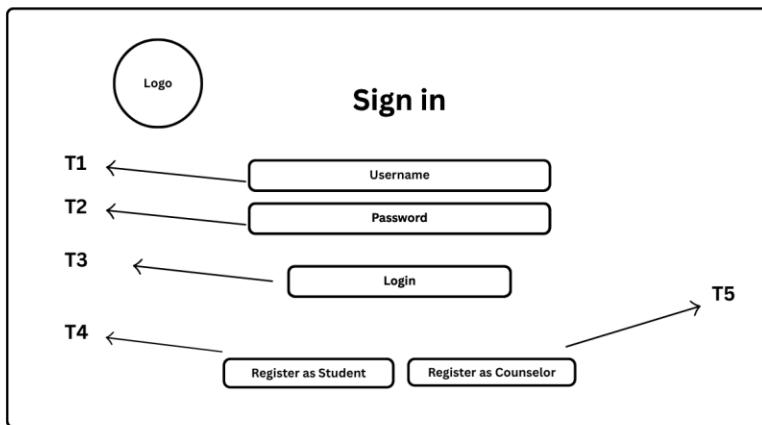
### Home Page:



| <b>Requirement</b> | <b>User</b>   |
|--------------------|---|
| <b>T1</b>          | As a user, I shall see the website logo and click it to go back to the home page.                     |
| <b>T2</b>          | As a user, I shall see the featured Universities and click them to go to the universities about page. |
| <b>T3</b>          | As a user, I shall see the chats logo and click it to go to the chat box.                             |
| <b>T4</b>          | As a user, I shall see the Sign-Up logo and click it to go to the sign-up page.                       |
| <b>T5</b>          | As a user, I shall see the Sign In logo and click it to go to the sign in page.                       |
| <b>T6</b>          | As a user, I shall see the Register as Counselor button and click it to go to the Registration page.  |
| <b>T7</b>          | As a user, I shall see the calculate Aggregate button and click it to go to the calculate aggregate.  |
| <b>T8</b>          | As a user, I shall see the Logos of universities and click it to go to the university about page.     |
| <b>T9</b>          | As a user, I shall see the Filter dropdown and click it to go to select the ranking type.             |
| <b>T10</b>         | As a user, I shall see the calculate Aggregate button and click it to go to the calculate aggregate.  |
| <b>T11</b>         | As a user, I shall see the feedback button and click it to go to give the feedback.                   |
| <b>T12</b>         | As a user, I shall see the contact button and click it to go to the contact page.                     |
| <b>T13</b>         | As a user, I shall see the About button and click it to go to the About page.                         |
| <b>T14</b>         | As a user, I shall see the filter dropdown and click it to set the univeristy types.                  |
| <b>T15</b>         | As a user, I shall see the complaint button and click it to go to the complaint page.                 |
| <b>T16</b>         | As a user, I shall see the Merit Lists button and click it to go to the Merit Lists page.             |
| <b>T17</b>         | As a user, I shall see the contact button and click it to go to the contact page.                     |

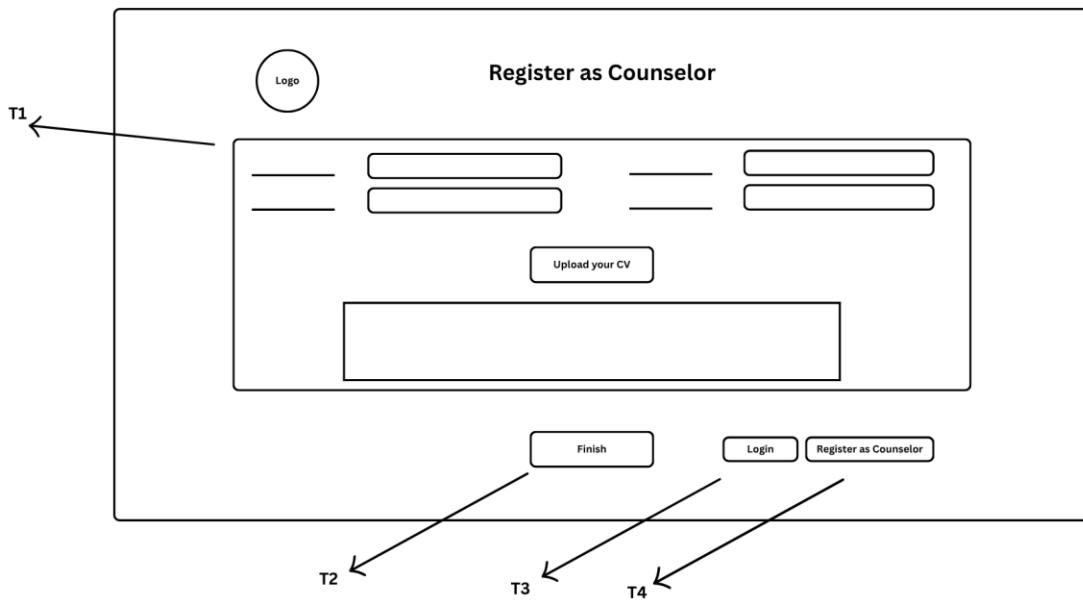
|            |   |
|------------|---|
| <b>T18</b> | As a user, I shall see the My Profile button and click it to go to the My Profile page.       |
| <b>T19</b> | As a user, I shall see the Add Institute button and click it to go to the Add Institute page. |
| <b>T20</b> | As a user, I shall see the latest rankings according to the filters set.                      |

### Sign In:



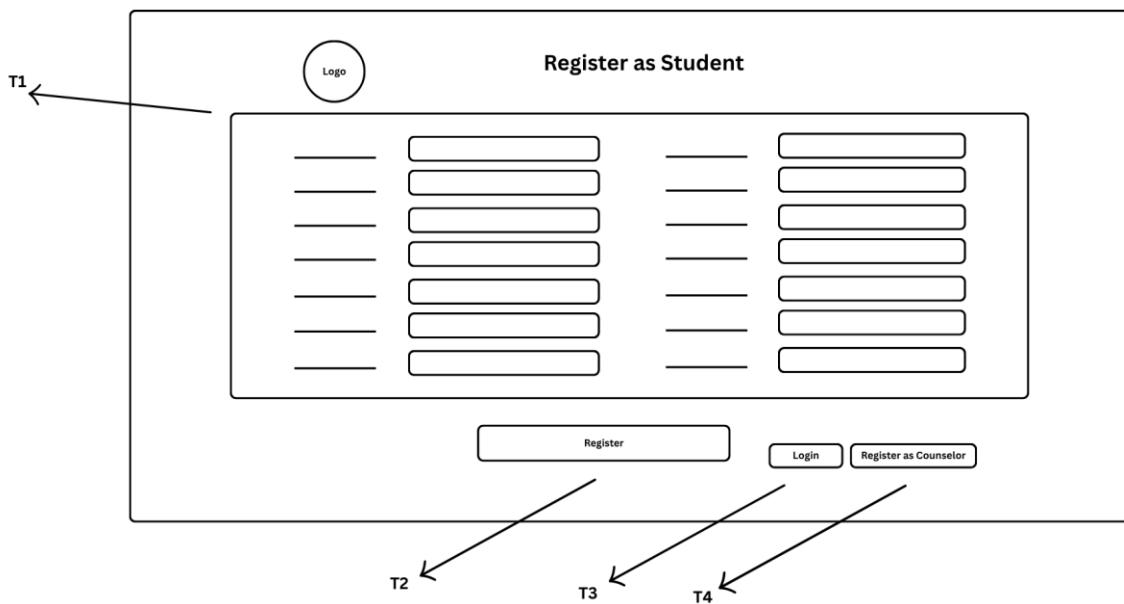
| Requirement | User   |
|-------------|--|
| <b>T1</b>   | As a user, I shall see the Username Field and write my username.                             |
| <b>T2</b>   | As a user, I shall see the Password Field and write my Password.                             |
| <b>T3</b>   | As a user, I shall see the Login Button and click it to go to Login.                         |
| <b>T4</b>   | As a user, I shall see the Sign Up as Student Logo and click it to go to the sign-up page.   |
| <b>T5</b>   | As a user, I shall see the Sign Up as Counselor Logo and click it to go to the sign-up page. |

### Register As Counselor:



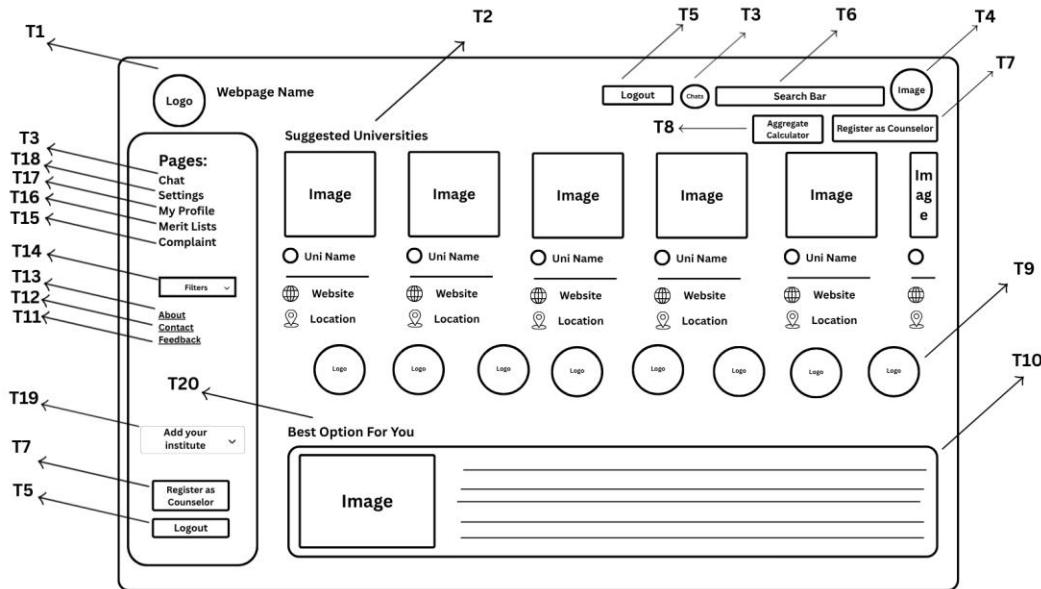
| Requirement | User  |
|-------------|---|
| T1          | As a user, I shall see the Form and fill it.  |
| T2          | As a user, I shall see the Finish button and click it to submit the details for registration. |
| T3          | As a user, I shall see the Login Button and click it to go to Login Page.                     |
| T4          | As a user, I shall see the Sign Up as Counselor Logo and click it to go to the sign-up page.  |

### Register As Student:



| Requirement | User  |
|-------------|---|
| T1          | As a user, I shall see the Form and fill it.  |
| T2          | As a user, I shall see the Register button and click it to submit the details for registration. |
| T3          | As a user, I shall see the Login Button and click it to go to Login Page.                       |
| T4          | As a user, I shall see the Sign Up as Counselor Logo and click it to go to the sign-up page.    |

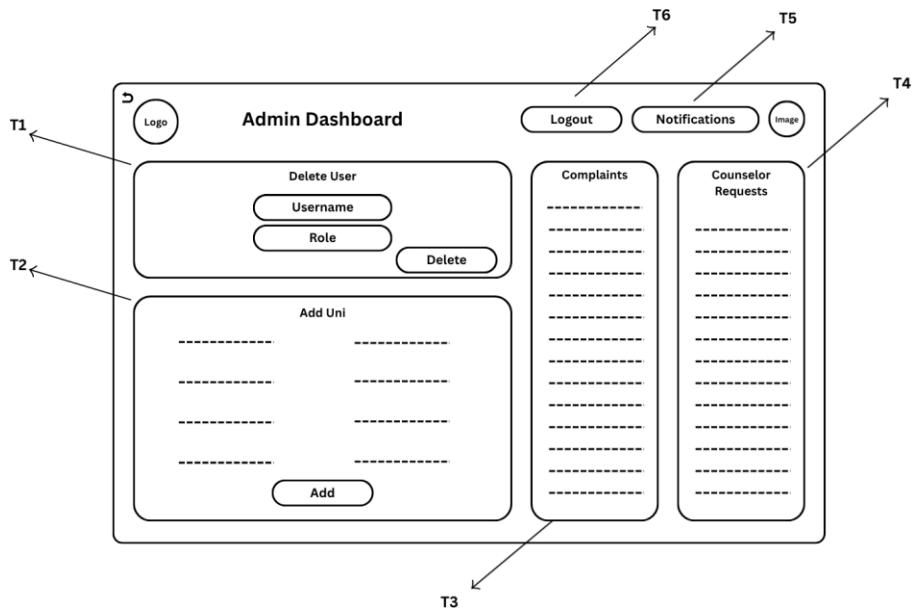
## Student Home Page:



| Requirement | User   |
|-------------|--|
| <b>T1</b>   | As a user, I shall see the website logo and click it to go back to the home page.                      |
| <b>T2</b>   | As a user, I shall see the Suggested Universities and click them to go to the universities about page. |
| <b>T3</b>   | As a user, I shall see the chats logo and click it to go to the chat box.                              |
| <b>T4</b>   | As a user, I shall see my profile picture and click it to go to my profile.                            |
| <b>T5</b>   | As a user, I shall see the Logout logo and click it to logout.   |
| <b>T6</b>   | As a user, I shall see the Register as Counselor button and click it to go to the Registration page.   |
| <b>T7</b>   | As a user, I shall see the calculate Aggregate button and click it to go to the calculate aggregate.   |
| <b>T9</b>   | As a user, I shall see the Logos of universities and click it to go to the university about page.      |
| <b>T10</b>  | As a user, I shall see the best suggested university and click it to go to its about page              |

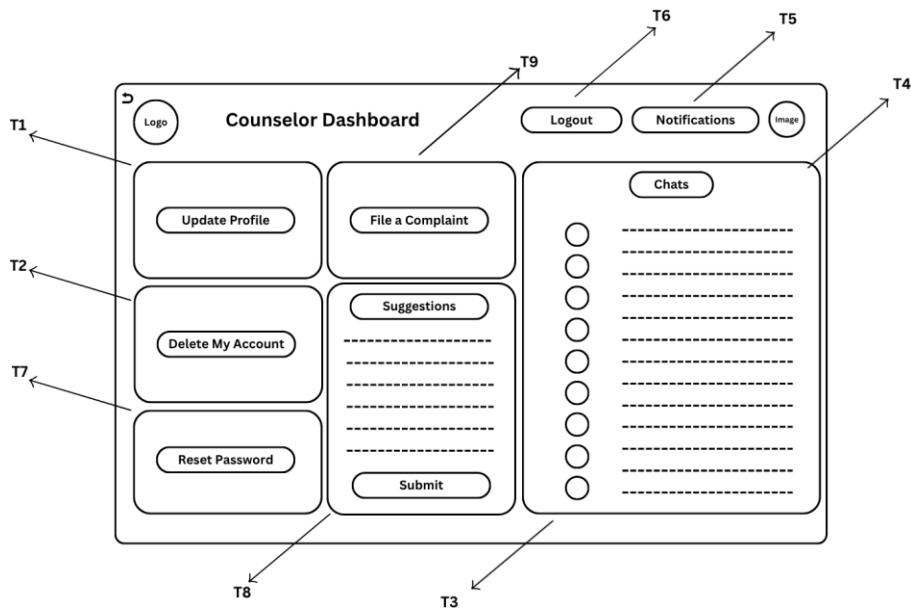
|            |   |
|------------|---|
| <b>T11</b> | As a user, I shall see the feedback button and click it to go to give the feedback.           |
| <b>T12</b> | As a user, I shall see the contact button and click it to go to the contact page.             |
| <b>T13</b> | As a user, I shall see the About button and click it to go to the About page.                 |
| <b>T14</b> | As a user, I shall see the filter dropdown and click it to set the university types.          |
| <b>T15</b> | As a user, I shall see the complaint button and click it to go to the complaint page.         |
| <b>T16</b> | As a user, I shall see the Merit Lists button and click it to go to the Merit Lists page.     |
| <b>T17</b> | As a user, I shall see the contact button and click it to go to the contact page.             |
| <b>T18</b> | As a user, I shall see the My Profile button and click it to go to the My Profile page.       |
| <b>T19</b> | As a user, I shall see the Add Institute button and click it to go to the Add Institute page. |
| <b>T20</b> | As a user, I shall see the image of the best option for me.                                   |

#### **Admin Dashboard:**



| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see the Delete user option and use it to delete the account of the user.          |
| T2          | As a user, I shall see the add university option and details the university to add it to the system. |
| T3          | As a user, I shall see the complaints of the users and reply to them via mail.                       |
| T4          | As a user, I shall see the counselors' requests and approve or deny them.                            |
| T5          | As a user, I shall see the Notifications button and use it to go to the notifications panel.         |
| T6          | As a user, I shall see the logout button and click it to log out of the system.                      |

### Counselor Dashboard:



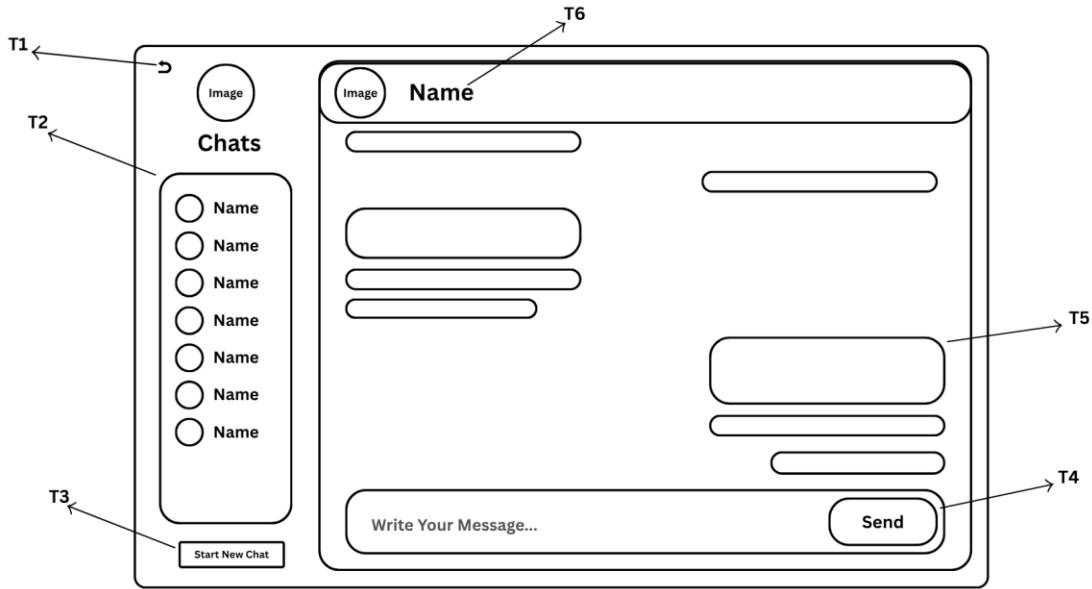
| Requirement | User  |
|-------------|---|
| T1          | As a user, I shall see the update profile option and click it to go to the update profile page. |
| T2          | As a user, I shall see the Delete my account option and click it to delete my account.          |
| T3          | As a user, I shall see the chats and click it to go to the chat box.                            |
| T4          | As a user, I shall see the chat logo and click it to go to the chat box.                        |
| T5          | As a user, I shall see the Notifications button and use it to go to the notifications panel.    |
| T6          | As a user, I shall see the logout button and click it to logout of the system.                  |
| T7          | As a user, I shall see the option to file a complaint and use it to file a complaint.           |
| T9          | As a user, I shall see the suggestions form and fill it to give the suggestions.                |

### Add Institute:

The diagram shows a wireframe of a user interface for adding an institute. At the top center is a circular placeholder for a logo. Below it, the title "Add your Institute" is centered. The main form area contains two columns of five input fields each, likely for text or file uploads. A horizontal button labeled "Add Images" is positioned between the two columns. Below this section is a large rectangular button labeled "Add". Two arrows point from the text "T1" and "T2" to the "Add Images" button and the "Add" button respectively.

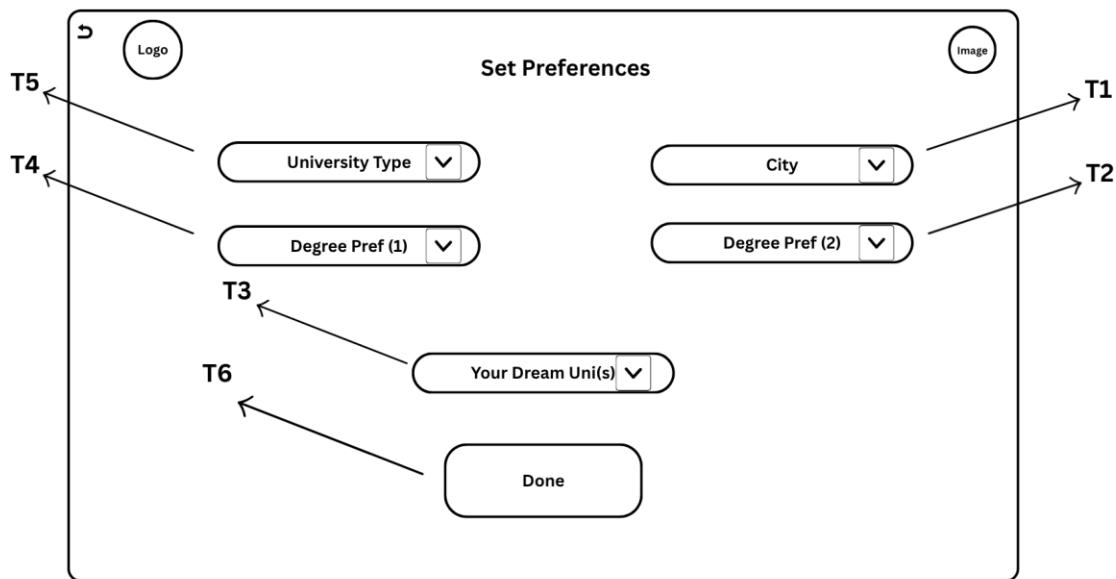
| Requirement | User  |
|-------------|---|
| T1          | As a user, I shall see the form for adding the details of the university to be added. |
| T2          | As a user, I shall see the Add button and click it to submit the details.             |

### Chat Box:



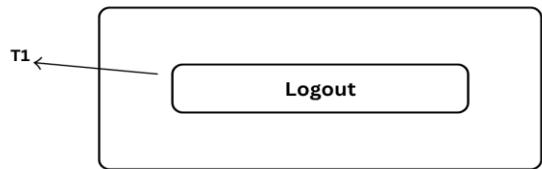
| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see the go back logo and click it to go to the previous page.             |
| T2          | As a user, I shall see the chats of the users and click them to open their chat.             |
| T3          | As a user, I shall see the Start New Chats and click it to go to the find counselors option. |
| T4          | As a user, I shall see the message field and use it to write the message and send.           |
| T5          | As a user, I shall see the messages of the users with the timestamps.                        |
|             |  |

## Set Student's Preferences:



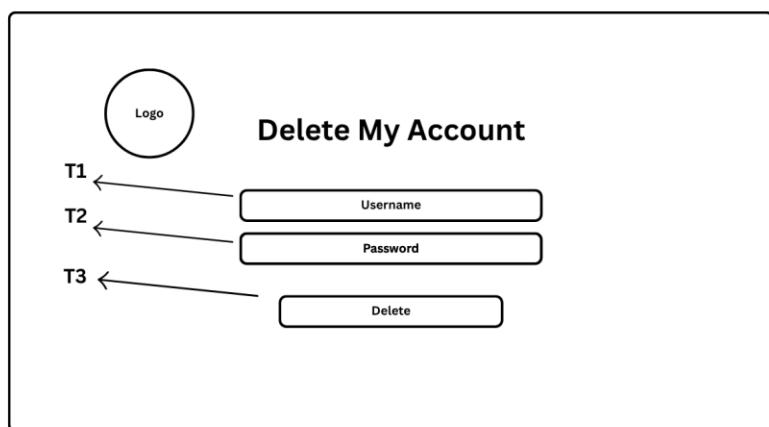
| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see the City Dropdown and select city.  |
| T2          | As a user, I shall see the Select Degree Preference dropdown and set my preference 2.                    |
| T3          | As a user, I shall see the Dream Uni dropdown and set my most preferred university.                      |
| T4          | As a user, I shall see the Select Degree Preference dropdown and set my preference 1.                    |
| T5          | As a user, I shall see the dropdown for selecting university type and click it to select the university. |
| T6          | As a user, I shall see the Done button and click it to set my preferences.                               |

**Logout:**



| Requirement | User   |
|-------------|--|
| <b>T1</b>   | As a user, I shall see the logout button and click it to logout. |

Delete my Account:

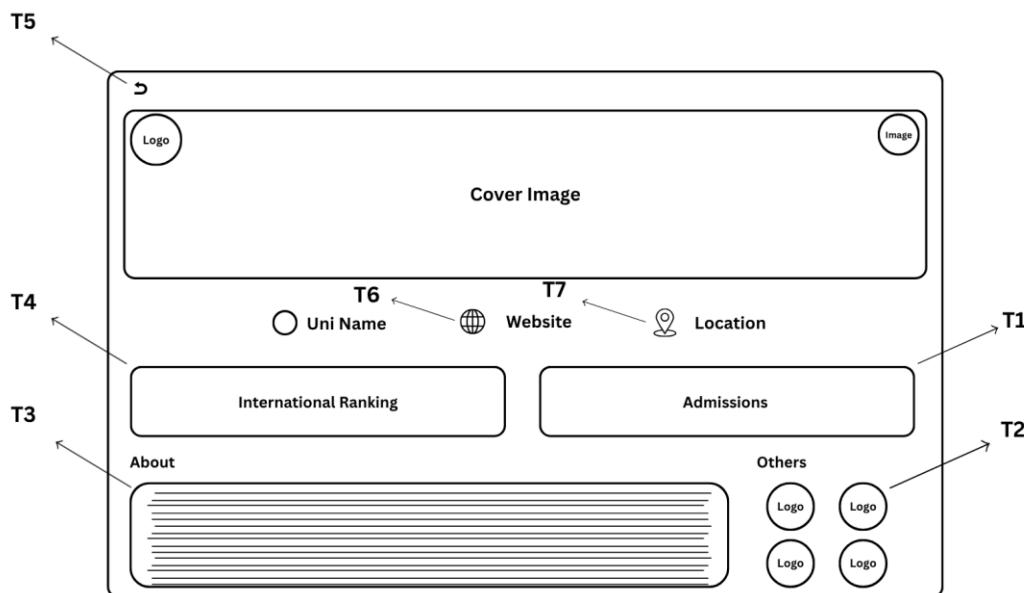


| Requirement | User  |
|-------------|---|
| T1          | As a user, I shall see the username field and use it to write my username.  |
| T2          | As a user, I shall see the password field and use it to write my password.  |
| T3          | As a user, I shall see the delete button and click it to delete my account. |

Universities'

About

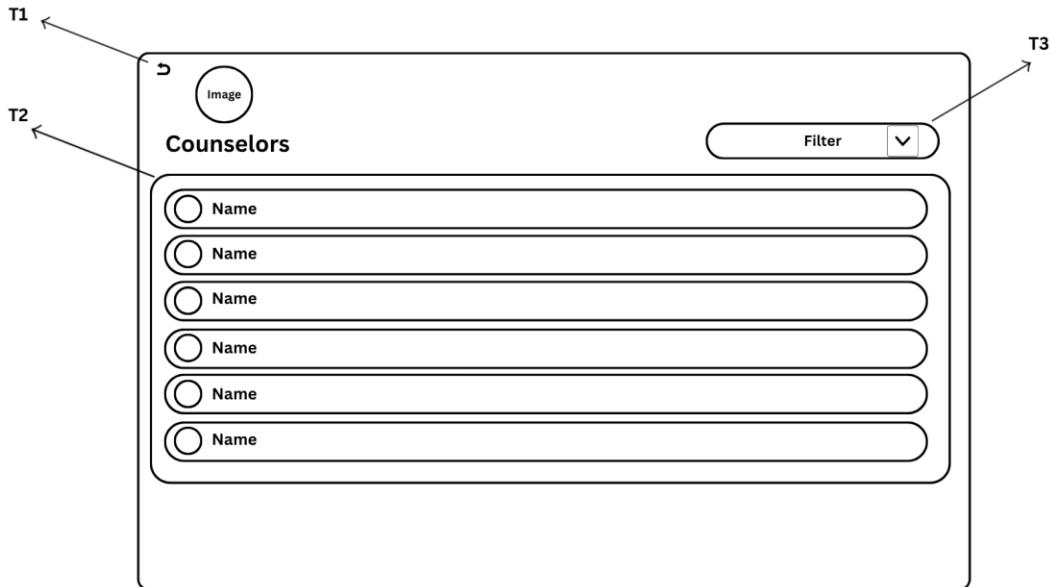
Page:



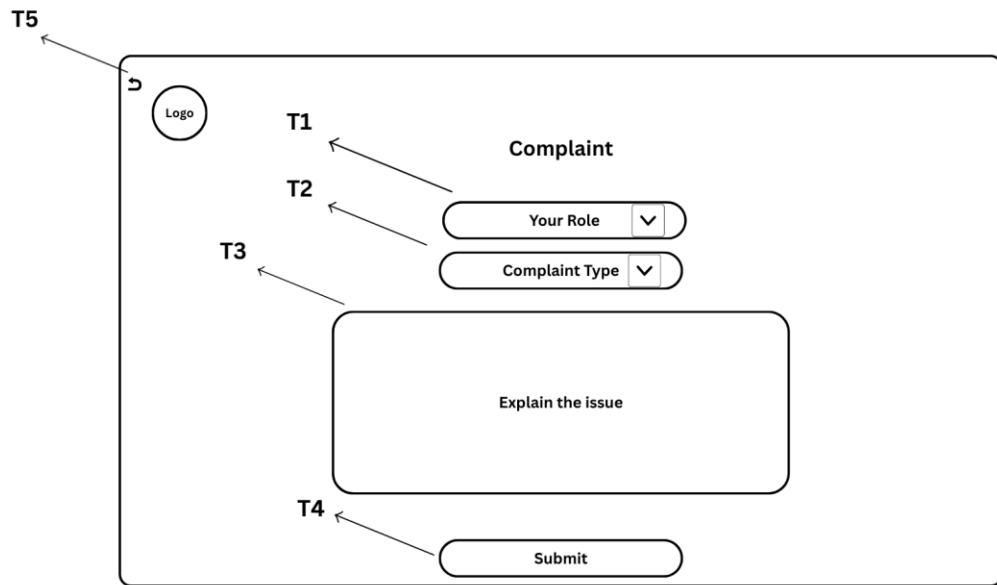
| Requirement | User  |
|-------------|---|
| T1          | As a user, I shall see the Admissions button and click it to go to the link of university's admission page. |
| T2          | As a user, I shall see the logos of other university suggestions and click them to go to the about page.    |
| T3          | As a user, I shall see the about info of the university.  |
| T4          | As a user, I shall see the international ranking of that university.  |
| T5          | As a user, I shall see the go back button and click it to go to the previous page.                          |
| T6          | As a user, I shall see the website url and click it to go the website of the university.                    |

|           |   |
|-----------|---|
| <b>T7</b> | As a user, I shall see the link of location of the university and click it to go to the location. |
|-----------|---|

### **View Counselors:**

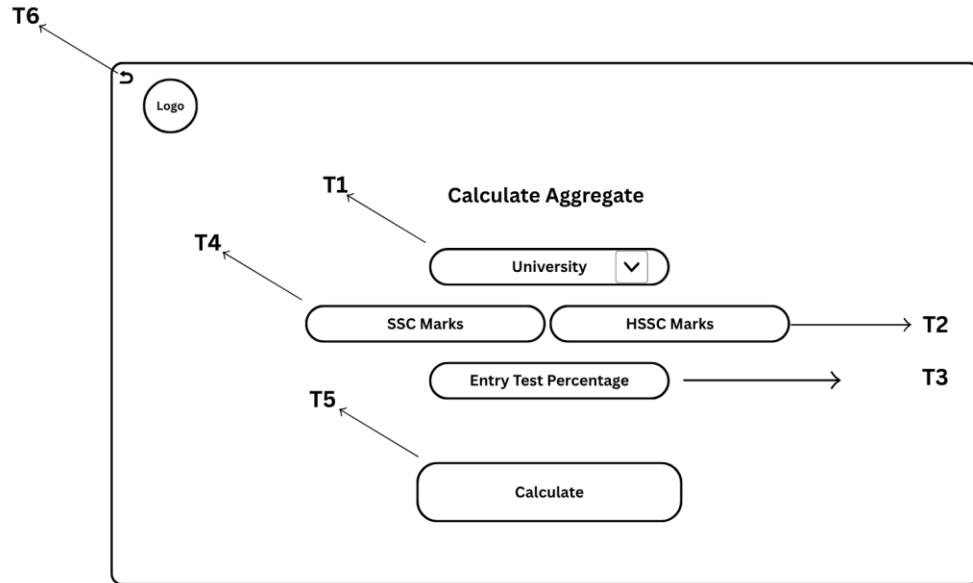


| <b>Requirement</b> | <b>User</b>  |
|--------------------|--|
| <b>T1</b>          | As a user, I shall see the go back button and click it to go to the previous page.             |
| <b>T2</b>          | As a user, I shall see the names of the counselors and click them to go to their profile page. |
| <b>T3</b>          | As a user, I shall see the filter dropdown and use it to set our preferences.                  |



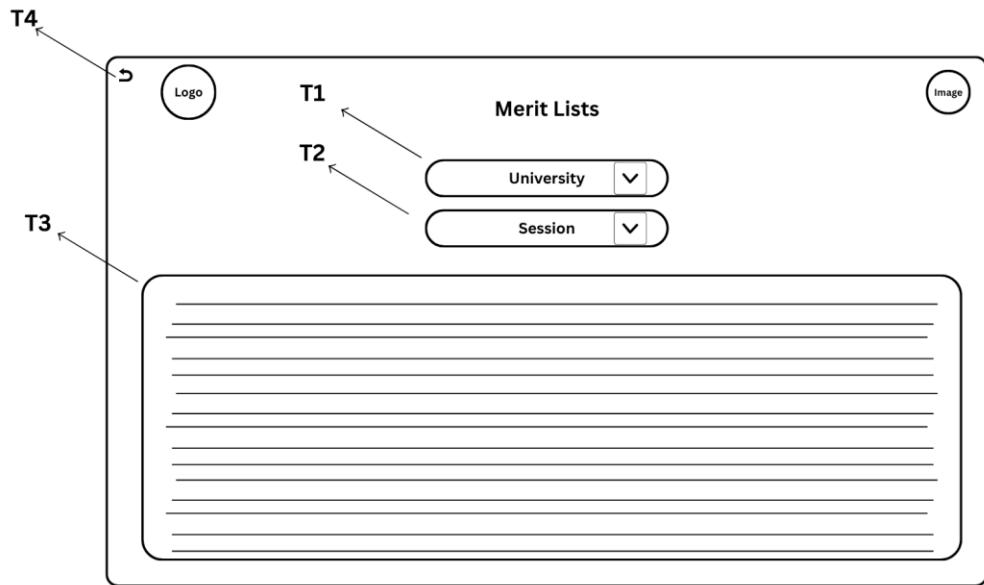
| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see the dropdown to select the role.                            |
| T2          | As a user, I shall see the dropdown to select the complaint type.                  |
| T3          | As a user, I shall see the text field and use it to write my complaint.            |
| T4          | As a user, I shall see the submit button and click it to submit the complaint.     |
| T5          | As a user, I shall see the go back button and click it to go to the previous page. |
| T6          | As a user, I shall see the go back button and click it to go to the previous page. |

## Calculate Aggregate:



| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see the dropdown to select the university.                        |
| T2          | As a user, I shall see the text field and use it to write my HSSC marks.             |
| T3          | As a user, I shall see the text field and use it to write my SSC marks.              |
| T4          | As a user, I shall see the text field and use it to write entry test percentage.     |
| T5          | As a user, I shall see the calculate button and click it to calculate the aggregate. |
| T6          | As a user, I shall see the go back button and click it to go to the previous page.   |

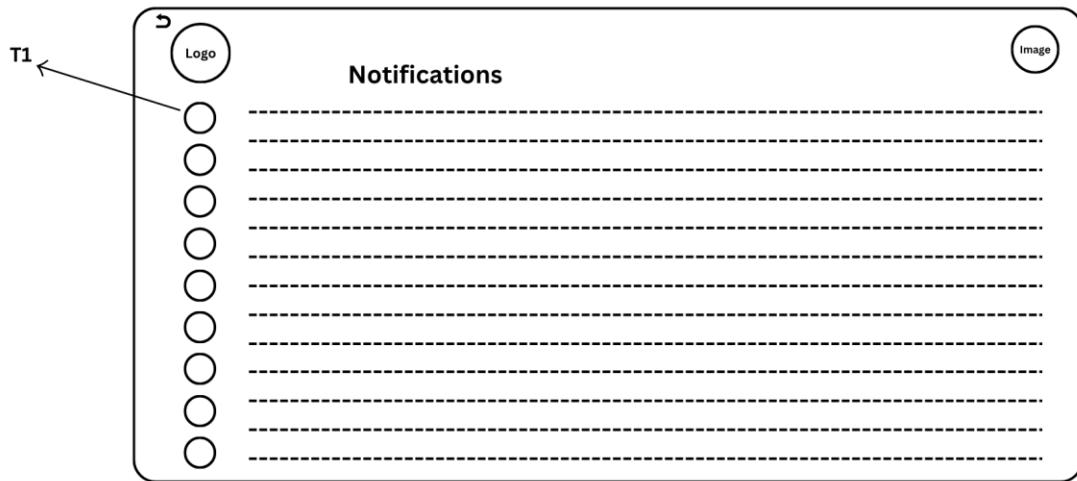
## View Merit Lists:



| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see the dropdown to select the university.                      |
| T2          | As a user, I shall see the dropdown to select the session.                         |
| T3          | As a user, I shall see the merit list.   |
| T4          | As a user, I shall see the go back button and click it to go to the previous page. |

## Notifications

Panel:



| Requirement | User  |
|-------------|---|
| T1          | As a user, I shall see the notifications panel. |

## Update Profile:

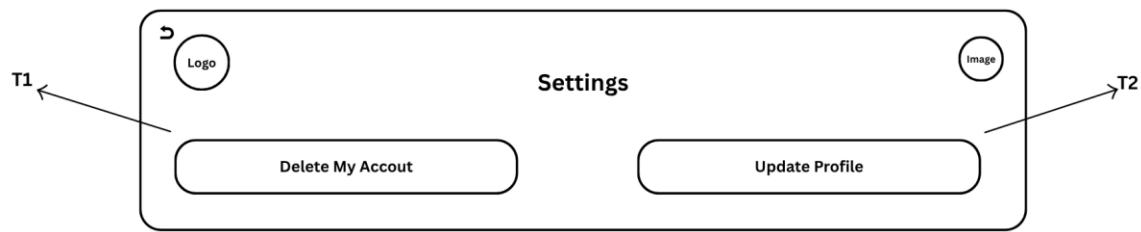
The wireframe shows a user interface for updating a profile. At the top center is a circular logo placeholder labeled "Logo". Below it is the title "Update Your Profile". The main area contains several input fields: two sets of two horizontal lines each, and a large rectangular area for a CV. A "Upload your CV" button is positioned between the two sets of input fields. At the bottom right is a "Finish" button.

T1

T2

| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see the form and use it to edit my details. |
| T2          | As a user, I shall see the Finish button to save the changes.  |

## Settings:



| Requirement | User   |
|-------------|--|
| T1          | As a user, I shall see Delete my Account button and click it to delete my account. |
| T2          | As a user, I shall see Update my Profile button and click it to update my profile. |

## 21. Use Cases

### 1. Login

|   |  |  |      |        |   |   |
|---|--|--|------|--------|---|---|
| <b>Name</b>   | Login.   |  |      |        |   |   |
| <b>Participating Actors</b>   | System, Counselor, Admin, Student, University ambassador.  |  |      |        |   |   |
| <b>Goals</b>  | The system shall securely authenticate a user and grant access to their respective dashboard.  |  |      |        |   |   |
| <b>Trigger</b>  | When a user enters their credentials and clicks the “Login” button.  |  |      |        |   |   |
| <b>Pre-Condition</b>  | The user must have a registered account (Approved in case of Counselor/Ambassador).  |  |      |        |   |   |
| <b>Post-Condition</b>   | The user is successfully authenticated and directed to their role-specific dashboard.  |  |      |        |   |   |
| <b>Basic Flow</b>   | <table border="1"><tr><td>User</td><td>System</td></tr><tr><td>1. The user navigates to the login page.<br/>2. The user enters email/ID and password.</td><td>1. The system validates credentials against the database.<br/>2. The system starts a secure session and directs the user to the dashboard.</td></tr></table> |  | User | System | 1. The user navigates to the login page.<br>2. The user enters email/ID and password.                     | 1. The system validates credentials against the database.<br>2. The system starts a secure session and directs the user to the dashboard. |
| User  | System   |  |      |        |   |   |
| 1. The user navigates to the login page.<br>2. The user enters email/ID and password.                     | 1. The system validates credentials against the database.<br>2. The system starts a secure session and directs the user to the dashboard.  |  |      |        |   |   |
| <b>Alternate Flow</b>   | <table border="1"><tr><td>User</td><td>System</td></tr><tr><td>1. The user is new to the site and tries to login.<br/>2. The user is redirected to the registration page.</td><td>1. The system checks the user in the database and redirects him/her to the registration page.</td></tr></table>                          |  | User | System | 1. The user is new to the site and tries to login.<br>2. The user is redirected to the registration page. | 1. The system checks the user in the database and redirects him/her to the registration page.   |
| User  | System   |  |      |        |   |   |
| 1. The user is new to the site and tries to login.<br>2. The user is redirected to the registration page. | 1. The system checks the user in the database and redirects him/her to the registration page.  |  |      |        |   |   |

|                   |   |  |
|-------------------|---|--|
|                   | <ol style="list-style-type: none"> <li>3. The user enters the required fields i.e. email, password.</li> <li>4. The user successfully gets registered on confirming the password.</li> </ol>  | <ol style="list-style-type: none"> <li>2. The system saves the user's registration data into the database securely.</li> <li>3. The system starts a secure session and directs the user to the dashboard.</li> </ol> |
| <b>Exceptions</b> | <ul style="list-style-type: none"> <li>• Invalid Credentials — Email/Password combination is incorrect.<br/> <b>Solution:</b> The user clicks on the “Forgot Password” button and redirects to the update his/her profile page.</li> <li>• Account Inactive/Pending — Counselor/Ambassador account is pending Admin approval.<br/> <b>Solution:</b> The admin approves the pending status of the Counselor/Ambassador.</li> </ul> |  |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>• Security — Passwords stored using hashing (Bcrypt).</li> <li>• Performance — Login response time must be under 1 second.</li> </ul>  |  |

## 2. Logout

|                             |   |
|-----------------------------|---|
| <b>Name</b>                 | Logout.   |
| <b>Participating Actors</b> | System, Counselor, Admin, Student, University ambassador.                                 |
| <b>Goals</b>                | The system shall securely end the active user session and prevent unauthorized access.    |
| <b>Trigger</b>              | When a user enters their credentials and clicks the “Logout” button.                      |
| <b>Pre-Condition</b>        | The user is currently logged in.  |
| <b>Post-Condition</b>       | The user session is terminated, and the user is redirected to the homepage or login page. |

| <b>Basic Flow</b>   | <table border="1"> <thead> <tr> <th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. The user navigates to the Profile Page.</li> <li>2. The user clicks the “Logout” button.</li> <li>3. The user is redirected to the public homepage.</li> </ol> </td><td> <ol style="list-style-type: none"> <li>1. The system destroys the active session cookie/token.</li> <li>2. The system redirects the user to the public homepage.</li> </ol> </td></tr> </tbody> </table>                        |  | User | System | <ol style="list-style-type: none"> <li>1. The user navigates to the Profile Page.</li> <li>2. The user clicks the “Logout” button.</li> <li>3. The user is redirected to the public homepage.</li> </ol>                        | <ol style="list-style-type: none"> <li>1. The system destroys the active session cookie/token.</li> <li>2. The system redirects the user to the public homepage.</li> </ol> |
|---|---|--|------|--------|---|---|
| User  | System  |  |      |        |   |   |
| <ol style="list-style-type: none"> <li>1. The user navigates to the Profile Page.</li> <li>2. The user clicks the “Logout” button.</li> <li>3. The user is redirected to the public homepage.</li> </ol>                        | <ol style="list-style-type: none"> <li>1. The system destroys the active session cookie/token.</li> <li>2. The system redirects the user to the public homepage.</li> </ol>   |  |      |        |   |   |
| <b>Alternate Flow</b>   | <table border="1"> <thead> <tr> <th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. The user navigates to the “Settings” on the panel in the left.</li> <li>2. The user clicks the “Logout” button.</li> <li>3. The user is redirected to the public homepage.</li> </ol> </td><td> <ol style="list-style-type: none"> <li>1. The system destroys the active session cookie/token.</li> <li>2. The system redirects the user to the public homepage.</li> </ol> </td></tr> </tbody> </table> |  | User | System | <ol style="list-style-type: none"> <li>1. The user navigates to the “Settings” on the panel in the left.</li> <li>2. The user clicks the “Logout” button.</li> <li>3. The user is redirected to the public homepage.</li> </ol> | <ol style="list-style-type: none"> <li>1. The system destroys the active session cookie/token.</li> <li>2. The system redirects the user to the public homepage.</li> </ol> |
| User  | System  |  |      |        |   |   |
| <ol style="list-style-type: none"> <li>1. The user navigates to the “Settings” on the panel in the left.</li> <li>2. The user clicks the “Logout” button.</li> <li>3. The user is redirected to the public homepage.</li> </ol> | <ol style="list-style-type: none"> <li>1. The system destroys the active session cookie/token.</li> <li>2. The system redirects the user to the public homepage.</li> </ol>   |  |      |        |   |   |
| <b>Exceptions</b>   | <ul style="list-style-type: none"> <li>● Session Destruction Failure: Very rare system error.<br/> <b>Solution:</b> The system immediately forces the user's browser to the public Homepage.</li> </ul>   |  |      |        |   |   |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>● Security: Ensures complete session termination.</li> </ul>   |  |      |        |   |   |

### 3. Update Profile

|                             |  |
|-----------------------------|--|
| <b>Name</b>                 | Update Profile.  |
| <b>Participating Actors</b> | System, Counselor, Admin, Student, University ambassador.  |
| <b>Goals</b>                | The system shall allow a user to modify their personal details, contact information, or preferences. |
| <b>Trigger</b>              | When a user clicks "Edit Profile" on their dashboard.  |
| <b>Pre-Condition</b>        | The user must have logged in into their respective account.  |

| <b>Post-Condition</b>  | The user's profile data in the database is successfully updated.   |  |      |        |  |   |
|--|--|--|------|--------|--|---|
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. The user navigates to the profile page.</li> <li>2. The user clicks the "Edit Profile" button.</li> <li>3. The user modifies the necessary fields e.g. profile picture, contact information or expertise.</li> <li>4. The user clicks the "Save Changes" button.</li> </ol> </td><td> <ol style="list-style-type: none"> <li>1. The system will allow the user to navigate to the profile page.</li> <li>2. The system validates the input and updates the record in the database.</li> <li>3. The system displays a "Profile Updated" success message.</li> </ol> </td></tr> </tbody> </table>   |  | User | System | <ol style="list-style-type: none"> <li>1. The user navigates to the profile page.</li> <li>2. The user clicks the "Edit Profile" button.</li> <li>3. The user modifies the necessary fields e.g. profile picture, contact information or expertise.</li> <li>4. The user clicks the "Save Changes" button.</li> </ol>  | <ol style="list-style-type: none"> <li>1. The system will allow the user to navigate to the profile page.</li> <li>2. The system validates the input and updates the record in the database.</li> <li>3. The system displays a "Profile Updated" success message.</li> </ol>  |
| User   | System   |  |      |        |  |   |
| <ol style="list-style-type: none"> <li>1. The user navigates to the profile page.</li> <li>2. The user clicks the "Edit Profile" button.</li> <li>3. The user modifies the necessary fields e.g. profile picture, contact information or expertise.</li> <li>4. The user clicks the "Save Changes" button.</li> </ol>  | <ol style="list-style-type: none"> <li>1. The system will allow the user to navigate to the profile page.</li> <li>2. The system validates the input and updates the record in the database.</li> <li>3. The system displays a "Profile Updated" success message.</li> </ol>   |  |      |        |  |   |
| <b>Alternate Flow</b>  | <table border="1"> <thead> <tr> <th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. The user navigates to the "Login Page".</li> <li>2. The user clicks the "Forgot Password?" link provided near the password verification field.</li> <li>3. The user is redirected to the Update Profile page.</li> <li>4. The user opens the email and clicks the reset link, following the standard password reset process.</li> <li>5. After successfully setting a new password, the user logs in again and attempts the profile update (Basic Flow) from the beginning.</li> </ol> </td><td> <ol style="list-style-type: none"> <li>1. The system immediately sends a password reset link to the user's registered email address.</li> <li>2. The system displays a confirmation message: "A password reset link has been sent to your registered email."</li> <li>3. The system allows the user to set a new password through the secure reset page.</li> </ol> </td></tr> </tbody> </table> |  | User | System | <ol style="list-style-type: none"> <li>1. The user navigates to the "Login Page".</li> <li>2. The user clicks the "Forgot Password?" link provided near the password verification field.</li> <li>3. The user is redirected to the Update Profile page.</li> <li>4. The user opens the email and clicks the reset link, following the standard password reset process.</li> <li>5. After successfully setting a new password, the user logs in again and attempts the profile update (Basic Flow) from the beginning.</li> </ol> | <ol style="list-style-type: none"> <li>1. The system immediately sends a password reset link to the user's registered email address.</li> <li>2. The system displays a confirmation message: "A password reset link has been sent to your registered email."</li> <li>3. The system allows the user to set a new password through the secure reset page.</li> </ol> |
| User   | System   |  |      |        |  |   |
| <ol style="list-style-type: none"> <li>1. The user navigates to the "Login Page".</li> <li>2. The user clicks the "Forgot Password?" link provided near the password verification field.</li> <li>3. The user is redirected to the Update Profile page.</li> <li>4. The user opens the email and clicks the reset link, following the standard password reset process.</li> <li>5. After successfully setting a new password, the user logs in again and attempts the profile update (Basic Flow) from the beginning.</li> </ol> | <ol style="list-style-type: none"> <li>1. The system immediately sends a password reset link to the user's registered email address.</li> <li>2. The system displays a confirmation message: "A password reset link has been sent to your registered email."</li> <li>3. The system allows the user to set a new password through the secure reset page.</li> </ol>  |  |      |        |  |   |
| <b>Exceptions</b>  | <ul style="list-style-type: none"> <li>• Invalid Data Format: User enters a non-numeric phone number or invalid email.</li> </ul>  |  |      |        |  |   |

|                  |  |
|------------------|--|
|                  | <b>Solution:</b> The system prevents submission and displays a specific, actionable error message next to the field(s) with incorrect data.                    |
| <b>Qualities</b> | <ul style="list-style-type: none"> <li>• Usability: Profile updates should be intuitive.</li> <li>• Reliability: Data validation ensures integrity.</li> </ul> |

#### 4. View Dashboard

| <b>Name</b>  | View Dashboard.  |  |      |        |  |   |
|--|--|--|------|--------|--|---|
| <b>Participating Actors</b>  | System, Counselor, Admin, Student, University ambassador.  |  |      |        |  |   |
| <b>Goals</b>   | To present the user with a centralized, role-specific view of their relevant actions and information.  |  |      |        |  |   |
| <b>Trigger</b>   | When the user logs into his/her account or navigation to the home link while logged in.  |  |      |        |  |   |
| <b>Pre-Condition</b>   | The user must have logged in into their respective account.  |  |      |        |  |   |
| <b>Post-Condition</b>  | The user is shown their main operational page with relevant data summaries and navigation links.   |  |      |        |  |   |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The user successfully logs in by entering his/her credentials on the “Login Page”.<br/>           2. The user can now see their respective dashboard.         </td> <td>           1. The system identifies the user’s role i.e. Student, Counselor, Admin or Ambassador.<br/>           2. The system renders the appropriate, customized dashboard view.         </td> </tr> </tbody> </table> |  | User | System | 1. The user successfully logs in by entering his/her credentials on the “Login Page”.<br>2. The user can now see their respective dashboard. | 1. The system identifies the user’s role i.e. Student, Counselor, Admin or Ambassador.<br>2. The system renders the appropriate, customized dashboard view. |
| User   | System   |  |      |        |  |   |
| 1. The user successfully logs in by entering his/her credentials on the “Login Page”.<br>2. The user can now see their respective dashboard. | 1. The system identifies the user’s role i.e. Student, Counselor, Admin or Ambassador.<br>2. The system renders the appropriate, customized dashboard view.  |  |      |        |  |   |
| <b>Alternate Flow</b>  | Not Applicable.  |  |      |        |  |   |
| <b>Exceptions</b>  | <ul style="list-style-type: none"> <li>• Failed login — Invalid Credentials e.g. wrong password.</li> </ul>  |  |      |        |  |   |

|                  |   |
|------------------|---|
|                  | <b>Solution:</b> Displays a clear, user-friendly error message (e.g., "Invalid Email or Password, try again.")  |
| <b>Qualities</b> | <ul style="list-style-type: none"> <li>• Performance: Dashboard content must load quickly, especially data summaries.</li> <li>• Usability: The layout must be role-specific and prioritize key tasks.</li> </ul> |

## 5. View Terms and Conditions

|   |   |  |      |        |   |   |
|---|---|--|------|--------|---|---|
| <b>Name</b>   | View Terms and Conditions.  |  |      |        |   |   |
| <b>Participating Actors</b>   | System, Counselor, Admin, Student, University ambassador.   |  |      |        |   |   |
| <b>Goals</b>  | To access the official legal and usage documentation of the platform.   |  |      |        |   |   |
| <b>Trigger</b>  | The user clicks the "Terms of Service" or "Privacy Policy" link.  |  |      |        |   |   |
| <b>Pre-Condition</b>  | The user is on the website (logged in or logged out).   |  |      |        |   |   |
| <b>Post-Condition</b>   | The Terms and Conditions or Privacy Policy document is displayed.   |  |      |        |   |   |
| <b>Basic Flow</b>   | <table border="1"> <tr> <td>User</td> <td>System</td> </tr> <tr> <td>           1. The user navigates the website.<br/>           2. The user clicks the "Terms and Conditions" button.         </td> <td>           1. The system retrieves and displays a static policy document in a readable format.         </td> </tr> </table> |  | User | System | 1. The user navigates the website.<br>2. The user clicks the "Terms and Conditions" button. | 1. The system retrieves and displays a static policy document in a readable format. |
| User  | System  |  |      |        |   |   |
| 1. The user navigates the website.<br>2. The user clicks the "Terms and Conditions" button. | 1. The system retrieves and displays a static policy document in a readable format.   |  |      |        |   |   |
| <b>Alternate Flow</b>   | Not Applicable.   |  |      |        |   |   |
| <b>Exceptions</b>   | <ul style="list-style-type: none"> <li>• Document Retrieval Failure: Static file is missing or corrupted.</li> </ul> <p><b>Solution:</b> The system shall attempt to retrieve the document from a secondary, redundant storage location.</p>  |  |      |        |   |   |

|                  |  |
|------------------|--|
|                  | <ul style="list-style-type: none"> <li>The system displays a "Document Not Found" error.</li> </ul> <p><b>Solution:</b> The system displays a custom, branded error page (instead of a generic 404) that clearly states the document is unavailable.</p> |
| <b>Qualities</b> | <ul style="list-style-type: none"> <li>Reliability: Documents must be available 24/7.</li> <li>Maintainability: Policies should be easy for the Admin to update.</li> </ul>  |

## 6. Delete Account

| <b>Name</b>   | Delete Account.  |  |      |        |   |  |
|---|--|--|------|--------|---|--|
| <b>Participating Actors</b>   | System, Counselor, Admin, Student, University ambassador.  |  |      |        |   |  |
| <b>Goals</b>  | To permanently remove a user's account and associated data from the system.  |  |      |        |   |  |
| <b>Trigger</b>  | User clicks "Delete Account" in their settings.  |  |      |        |   |  |
| <b>Pre-Condition</b>  | The user must have logged in into their respective account.  |  |      |        |   |  |
| <b>Post-Condition</b>   | The user account and most associated personal data are removed from the system; the user is logged out.  |  |      |        |   |  |
| <b>Basic Flow</b>   | <table border="1"> <thead> <tr> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The user navigates to the "Account Settings Page".<br/>           2. The user clicks "Delete Account" and confirms the action (often by re-entering their password).         </td> <td>           1. The system verifies confirmation.<br/>           2. The system archives (or deletes) user data and removes the active account record.<br/>           3. The system logs out the user and redirects to the homepage.         </td> </tr> </tbody> </table> |  | User | System | 1. The user navigates to the "Account Settings Page".<br>2. The user clicks "Delete Account" and confirms the action (often by re-entering their password). | 1. The system verifies confirmation.<br>2. The system archives (or deletes) user data and removes the active account record.<br>3. The system logs out the user and redirects to the homepage. |
| User  | System   |  |      |        |   |  |
| 1. The user navigates to the "Account Settings Page".<br>2. The user clicks "Delete Account" and confirms the action (often by re-entering their password). | 1. The system verifies confirmation.<br>2. The system archives (or deletes) user data and removes the active account record.<br>3. The system logs out the user and redirects to the homepage.   |  |      |        |   |  |

|                       |   |
|-----------------------|---|
| <b>Alternate Flow</b> | Not Applicable.   |
| <b>Exceptions</b>     | <ul style="list-style-type: none"> <li>The system prevents deletion and displays an error.</li> </ul> <p><b>Solution:</b> The system shall display a specific, actionable error message clearly stating the reason the deletion is blocked.</p> |
| <b>Qualities</b>      | <ul style="list-style-type: none"> <li>Security: Requires re-authentication for confirmation.</li> <li>Compliance: Follows data retention policies for associated data (e.g., chat logs may be anonymized).</li> </ul>                          |

## 7. Register as Student

| <b>Name</b>  | Register as Student.  |  |         |        |  |   |
|--|---|--|---------|--------|--|---|
| <b>Participating Actors</b>  | System, Student.  |  |         |        |  |   |
| <b>Goals</b>   | To create a basic user account on the platform.   |  |         |        |  |   |
| <b>Trigger</b>   | The student clicks "Register as Student" on the homepage.   |  |         |        |  |   |
| <b>Pre-Condition</b>   | The student is not currently registered.  |  |         |        |  |   |
| <b>Post-Condition</b>  | A new Student account is created and pending profile completion.  |  |         |        |  |   |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The user navigates to the Registration page.<br/>           2. The user selects the "Register as Student" role from the user type options.<br/>           3. The user enters all mandatory information (e.g., full name, email address, password, and confirms password).<br/>           4. The user clicks the         </td> <td>           1. The system displays the registration form.<br/>           2. The system loads the student-specific registration fields (e.g., academic board, year of completion, etc.).<br/>           3. The system performs real-time validation (e.g., checks for email format and password strength/match).         </td> </tr> </tbody> </table> |  | Student | System | 1. The user navigates to the Registration page.<br>2. The user selects the "Register as Student" role from the user type options.<br>3. The user enters all mandatory information (e.g., full name, email address, password, and confirms password).<br>4. The user clicks the | 1. The system displays the registration form.<br>2. The system loads the student-specific registration fields (e.g., academic board, year of completion, etc.).<br>3. The system performs real-time validation (e.g., checks for email format and password strength/match). |
| Student  | System  |  |         |        |  |   |
| 1. The user navigates to the Registration page.<br>2. The user selects the "Register as Student" role from the user type options.<br>3. The user enters all mandatory information (e.g., full name, email address, password, and confirms password).<br>4. The user clicks the | 1. The system displays the registration form.<br>2. The system loads the student-specific registration fields (e.g., academic board, year of completion, etc.).<br>3. The system performs real-time validation (e.g., checks for email format and password strength/match).   |  |         |        |  |   |

|                       |   |
|-----------------------|---|
|                       | <p>"Register" button.</p>   |
| <b>Alternate Flow</b> | Not Applicable.   |
| <b>Exceptions</b>     | <ul style="list-style-type: none"> <li>• Email Exists, i.e. Email is already in use.<br/> <u>Solution:</u> The user uses another email or goes to the Login Page and login with his/her credentials.</li> <li>• Password Weak: Password does not meet security requirements.<br/> <u>Solution:</u> The user creates a strong password using combinations of letters, alphabets and special characters.</li> </ul> |
| <b>Qualities</b>      | <ul style="list-style-type: none"> <li>• Security: Password hashing.</li> <li>• Usability: Quick, simple signup.</li> </ul>   |

## 8. Set/Change Preferences

| <b>Name</b>  | Set/Change Preferences.  |  |         |        |  |  |
|--|--|--|---------|--------|--|--|
| <b>Participating Actors</b>  | System, Student.   |  |         |        |  |  |
| <b>Goals</b>   | To filter out the desired degree programs or universities for personalized suggestions.  |  |         |        |  |  |
| <b>Trigger</b>   | The student clicks "Edit Preferences" on their profile or dashboard  |  |         |        |  |  |
| <b>Pre-Condition</b>   | The student must have logged in into his/her account.  |  |         |        |  |  |
| <b>Post-Condition</b>  | The student's career/academic preferences are updated in the database.   |  |         |        |  |  |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The student navigates to the "Profile Page" and clicks on the "Edit Preferences" button.<br/>           2. The student selects preferred degrees, fields, or specific universities.<br/>           3. The student clicks the "Save" button.         </td> <td>           1. The system validates and updates the preference data.<br/>           2. The system triggers a recalculation for university suggestions.         </td> </tr> </tbody> </table>   |  | Student | System | 1. The student navigates to the "Profile Page" and clicks on the "Edit Preferences" button.<br>2. The student selects preferred degrees, fields, or specific universities.<br>3. The student clicks the "Save" button.   | 1. The system validates and updates the preference data.<br>2. The system triggers a recalculation for university suggestions.   |
| Student  | System   |  |         |        |  |  |
| 1. The student navigates to the "Profile Page" and clicks on the "Edit Preferences" button.<br>2. The student selects preferred degrees, fields, or specific universities.<br>3. The student clicks the "Save" button.   | 1. The system validates and updates the preference data.<br>2. The system triggers a recalculation for university suggestions.   |  |         |        |  |  |
| <b>Alternate Flow</b>  | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The student is viewing the University Suggestions page.<br/>           2. The student clicks on "Edit Preferences" or "Filter Results" button/link present directly on the results page.<br/>           3. The student modifies one or more preference fields (e.g., changes their preferred City or Field of Interest).<br/>           4. The student clicks the         </td> <td>           1. The system displays the list of results and the current preference criteria (e.g., location, public/private).<br/>           2. The system validates the new input in real-time.<br/>           3. The system temporarily updates the preferences in the database, recalculates the suggestions based on the new criteria.<br/>           4. The system displays a success notification         </td> </tr> </tbody> </table> |  | Student | System | 1. The student is viewing the University Suggestions page.<br>2. The student clicks on "Edit Preferences" or "Filter Results" button/link present directly on the results page.<br>3. The student modifies one or more preference fields (e.g., changes their preferred City or Field of Interest).<br>4. The student clicks the | 1. The system displays the list of results and the current preference criteria (e.g., location, public/private).<br>2. The system validates the new input in real-time.<br>3. The system temporarily updates the preferences in the database, recalculates the suggestions based on the new criteria.<br>4. The system displays a success notification |
| Student  | System   |  |         |        |  |  |
| 1. The student is viewing the University Suggestions page.<br>2. The student clicks on "Edit Preferences" or "Filter Results" button/link present directly on the results page.<br>3. The student modifies one or more preference fields (e.g., changes their preferred City or Field of Interest).<br>4. The student clicks the | 1. The system displays the list of results and the current preference criteria (e.g., location, public/private).<br>2. The system validates the new input in real-time.<br>3. The system temporarily updates the preferences in the database, recalculates the suggestions based on the new criteria.<br>4. The system displays a success notification   |  |         |        |  |  |

|                   |  |   |
|-------------------|--|---|
|                   | <p>"Apply &amp; View Results" button within the modal/panel.</p> <p>5. The student immediately views the updated list of university suggestions on the same page.</p>  | ("Preferences updated and results refreshed!"). |
| <b>Exceptions</b> | <ul style="list-style-type: none"> <li>Invalid Data Format: User enters a non-numeric phone number or invalid email.</li> </ul> <p><b>Solution:</b> The system prevents submission and displays a specific, actionable error message next to the field(s) with incorrect data.</p> |   |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>Reliability: Preferences directly impact the suggestion algorithm.</li> <li>Usability: Provides clear selection options (dropdowns/checkboxes).</li> </ul>  |   |

## 9. View Aggregate

|                             |   |
|-----------------------------|---|
| <b>Name</b>                 | View Aggregate.   |
| <b>Participating Actors</b> | System, Student, Counselor.   |
| <b>Goals</b>                | To calculate and view the student's normalized aggregate score based on their academic results. |
| <b>Trigger</b>              | The student clicks "View Aggregate" on the Results/Suggestions dashboard.                       |
| <b>Pre-Condition</b>        | The student is logged in, and their academic results are successfully retrieved.                |
| <b>Post-Condition</b>       | The calculated aggregate score is displayed to the student.                                     |
| <b>Basic Flow</b>           |   |

|                       | User  | System  |
|-----------------------|---|---|
|                       | <ol style="list-style-type: none"> <li>1. On the Home Page, the user navigates to the “View Aggregate” section on the panel in the left.</li> <li>2. The student requests the aggregate view.</li> <li>3. The student enters the required fields.</li> <li>4. The calculated aggregate is visible to the student based on his/her academic scores.</li> </ol> | <ol style="list-style-type: none"> <li>1. The system retrieves the student's raw marks.</li> <li>2. The system applies the predefined aggregate calculation formula (e.g., weighted average).</li> <li>3. The system displays the final aggregate score.</li> </ol> |
| <b>Alternate Flow</b> | Not Applicable.   |   |
| <b>Exceptions</b>     | <ul style="list-style-type: none"> <li>• Calculation Error: Formula error or incompatible data.<br/> <b>Solution:</b> The system prevents calculation and displays a specific, actionable error message next to the field(s) with incorrect data.</li> </ul>  |   |
| <b>Qualities</b>      | <ul style="list-style-type: none"> <li>• Accuracy: Aggregate formula must be 100% accurate as per board standards.</li> </ul>   |   |

## 10. View Suggested Universities

|                             |   |
|-----------------------------|---|
| <b>Name</b>                 | View Suggested Universities.  |
| <b>Participating Actors</b> | System, Counselor, Admin, Student, University ambassador.                                       |
| <b>Goals</b>                | To view a personalized list of universities matching their aggregate marks and set preferences. |
| <b>Trigger</b>              | The student clicks "View Suggestions" on the dashboard.   |

| <b>Pre-Condition</b>   | The student is logged in, has a valid aggregate score, and preferences are set.  |  |         |        |  |  |
|--|--|--|---------|--------|--|--|
| <b>Post-Condition</b>  | A ranked list of recommended universities is displayed, complete with match scores.  |  |         |        |  |  |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. On the Home Page, the user navigates to the “View Suggested Universities”.</li> <li>2. The user sees the suggested universities according to his/her aggregate.</li> </ol> </td><td> <ol style="list-style-type: none"> <li>1. The system allows the user to navigate to the “View Suggested Universities”.</li> <li>2. The system retrieves and filters out all the available universities based on the user’s preferences from the database.</li> <li>3. The system shows the suggested universities to the user.</li> </ol> </td></tr> </tbody> </table>   |  | User    | System | <ol style="list-style-type: none"> <li>1. On the Home Page, the user navigates to the “View Suggested Universities”.</li> <li>2. The user sees the suggested universities according to his/her aggregate.</li> </ol>   | <ol style="list-style-type: none"> <li>1. The system allows the user to navigate to the “View Suggested Universities”.</li> <li>2. The system retrieves and filters out all the available universities based on the user’s preferences from the database.</li> <li>3. The system shows the suggested universities to the user.</li> </ol>  |
| User   | System   |  |         |        |  |  |
| <ol style="list-style-type: none"> <li>1. On the Home Page, the user navigates to the “View Suggested Universities”.</li> <li>2. The user sees the suggested universities according to his/her aggregate.</li> </ol>   | <ol style="list-style-type: none"> <li>1. The system allows the user to navigate to the “View Suggested Universities”.</li> <li>2. The system retrieves and filters out all the available universities based on the user’s preferences from the database.</li> <li>3. The system shows the suggested universities to the user.</li> </ol>  |  |         |        |  |  |
| <b>Alternate Flow</b>  | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. The student is viewing the University Suggestions page.</li> <li>2. The student clicks on "Edit Preferences" or "Filter Results" button/link present directly on the results page.</li> <li>3. The student modifies one or more preference fields (e.g., changes their preferred City or Field of Interest).</li> <li>4. The student clicks the "Apply &amp; View Results" button within the modal/panel.</li> <li>5. The student immediately views the</li> </ol> </td><td> <ol style="list-style-type: none"> <li>1. The system displays the list of results and the current preference criteria (e.g., location, public/private).</li> <li>2. The system validates the new input in real-time.</li> <li>3. The system temporarily updates the preferences in the database, recalculates the suggestions based on the new criteria.</li> <li>4. The system displays a success notification ("Preferences updated and results refreshed!").</li> </ol> </td></tr> </tbody> </table> |  | Student | System | <ol style="list-style-type: none"> <li>1. The student is viewing the University Suggestions page.</li> <li>2. The student clicks on "Edit Preferences" or "Filter Results" button/link present directly on the results page.</li> <li>3. The student modifies one or more preference fields (e.g., changes their preferred City or Field of Interest).</li> <li>4. The student clicks the "Apply &amp; View Results" button within the modal/panel.</li> <li>5. The student immediately views the</li> </ol> | <ol style="list-style-type: none"> <li>1. The system displays the list of results and the current preference criteria (e.g., location, public/private).</li> <li>2. The system validates the new input in real-time.</li> <li>3. The system temporarily updates the preferences in the database, recalculates the suggestions based on the new criteria.</li> <li>4. The system displays a success notification ("Preferences updated and results refreshed!").</li> </ol> |
| Student  | System   |  |         |        |  |  |
| <ol style="list-style-type: none"> <li>1. The student is viewing the University Suggestions page.</li> <li>2. The student clicks on "Edit Preferences" or "Filter Results" button/link present directly on the results page.</li> <li>3. The student modifies one or more preference fields (e.g., changes their preferred City or Field of Interest).</li> <li>4. The student clicks the "Apply &amp; View Results" button within the modal/panel.</li> <li>5. The student immediately views the</li> </ol> | <ol style="list-style-type: none"> <li>1. The system displays the list of results and the current preference criteria (e.g., location, public/private).</li> <li>2. The system validates the new input in real-time.</li> <li>3. The system temporarily updates the preferences in the database, recalculates the suggestions based on the new criteria.</li> <li>4. The system displays a success notification ("Preferences updated and results refreshed!").</li> </ol>   |  |         |        |  |  |

|                   |  |  |
|-------------------|--|--|
|                   | updated list of university suggestions on the same page.   |  |
| <b>Exceptions</b> | <ul style="list-style-type: none"> <li>• No Match Found: Student's aggregate is too low/high for available data.<br/> <b>Solution:</b> The system displays a message and suggests exploring all universities.</li> </ul> |  |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>• Performance: Suggestion load time under 3 seconds.</li> <li>• Reliability: Matching must be based on the latest available merit lists.</li> </ul>                               |  |

## 11. Apply for Admission

| <b>Name</b>  | Apply for Admission.   |  |         |        |  |  |
|--|--|--|---------|--------|--|--|
| <b>Participating Actors</b>  | System, Student.   |  |         |        |  |  |
| <b>Goals</b>   | To seamlessly navigate from the platform to the official university registration portal and apply for admission.   |  |         |        |  |  |
| <b>Trigger</b>   | The student clicks the "Apply Now" link next to a suggested or explored university.  |  |         |        |  |  |
| <b>Pre-Condition</b>   | The student is viewing a university detail page.   |  |         |        |  |  |
| <b>Post-Condition</b>  | The student is redirected to the official university admission/registration page in a new tab.   |  |         |        |  |  |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The student reviews all the suggested universities or the universities available on the portal.<br/>           2. The student selects a         </td> <td>           1. The system allows the student to scroll through all the available or suggested universities.<br/>           2. The system opens the         </td> </tr> </tbody> </table> |  | Student | System | 1. The student reviews all the suggested universities or the universities available on the portal.<br>2. The student selects a | 1. The system allows the student to scroll through all the available or suggested universities.<br>2. The system opens the |
| Student  | System   |  |         |        |  |  |
| 1. The student reviews all the suggested universities or the universities available on the portal.<br>2. The student selects a | 1. The system allows the student to scroll through all the available or suggested universities.<br>2. The system opens the   |  |         |        |  |  |

|   | <p>university.</p> <p>3. The student clicks "Apply Now."</p>  | pre-stored official registration URL in a new browser tab. |        |  |   |
|---|---|--|--------|--|---|
| <b>Alternate Flow</b>   |   |  |        |  |   |
| <table border="1"> <thead> <tr> <th style="text-align: center;">Student</th> <th style="text-align: center;">System</th> </tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. The student reviews all the suggested universities or the universities available on the portal.</li> <li>2. The student selects a university.</li> <li>3. The student goes to the browser and searches for his selected university.</li> <li>4. The student clicks "Apply Now."</li> </ol> </td><td> <ol style="list-style-type: none"> <li>1. The system allows the student to scroll through all the available or suggested universities.</li> </ol> </td></tr> </tbody> </table> |   | Student  | System | <ol style="list-style-type: none"> <li>1. The student reviews all the suggested universities or the universities available on the portal.</li> <li>2. The student selects a university.</li> <li>3. The student goes to the browser and searches for his selected university.</li> <li>4. The student clicks "Apply Now."</li> </ol> | <ol style="list-style-type: none"> <li>1. The system allows the student to scroll through all the available or suggested universities.</li> </ol> |
| Student   | System  |  |        |  |   |
| <ol style="list-style-type: none"> <li>1. The student reviews all the suggested universities or the universities available on the portal.</li> <li>2. The student selects a university.</li> <li>3. The student goes to the browser and searches for his selected university.</li> <li>4. The student clicks "Apply Now."</li> </ol>  | <ol style="list-style-type: none"> <li>1. The system allows the student to scroll through all the available or suggested universities.</li> </ol>   |  |        |  |   |
| <b>Exceptions</b>   | <ul style="list-style-type: none"> <li>• Invalid Link: The stored URL is broken or outdated.<br/> <b>Solution:</b> The system redirects the user to a specific error page that clearly explains the link is broken and provides the name/source of the link.</li> </ul> |  |        |  |   |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>• Reliability: University links must be periodically verified by the Admin/Ambassador.</li> </ul>  |  |        |  |   |

## 12. View Available Counselors

|                             |   |
|-----------------------------|---|
| <b>Name</b>                 | View Available Counselors.  |
| <b>Participating Actors</b> | System, Student.  |
| <b>Goals</b>                | To browse the list of approved counselors and their professional profiles to select one for guidance. |
| <b>Trigger</b>              | The student clicks the "Find a Counselor" link.   |

| <b>Pre-Condition</b>   | The student is logged in.  |  |         |        |  |  |
|--|--|--|---------|--------|--|--|
| <b>Post-Condition</b>  | A list of approved counselors, their expertise, and profiles is displayed.   |  |         |        |  |  |
| <b>Basic Flow</b>  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">Student</th> <th style="text-align: center; padding: 5px;">System</th> </tr> </thead> <tbody> <tr> <td style="padding: 10px;">           1. The student navigates to the Counselor List page.<br/>           2. The student clicks the "Find a Counselor" button.<br/>           3. The student views the available counselors.         </td><td style="padding: 10px;">           1. The system retrieves the list of approved counselors and their basic profile summaries (Name, Expertise).<br/>           2. The system displays the list, often with filtering/sorting options.         </td></tr> </tbody> </table> |  | Student | System | 1. The student navigates to the Counselor List page.<br>2. The student clicks the "Find a Counselor" button.<br>3. The student views the available counselors. | 1. The system retrieves the list of approved counselors and their basic profile summaries (Name, Expertise).<br>2. The system displays the list, often with filtering/sorting options. |
| Student  | System   |  |         |        |  |  |
| 1. The student navigates to the Counselor List page.<br>2. The student clicks the "Find a Counselor" button.<br>3. The student views the available counselors. | 1. The system retrieves the list of approved counselors and their basic profile summaries (Name, Expertise).<br>2. The system displays the list, often with filtering/sorting options.   |  |         |        |  |  |
| <b>Alternate Flow</b>  | Not Applicable.  |  |         |        |  |  |
| <b>Exceptions</b>  | <ul style="list-style-type: none"> <li>● No Counselors Found: System displays a message that no counselors are currently available.<br/> <b>Solution:</b> The system displays a clear, encouraging message to the student, such as: "Currently, no counselors are online or available. Please try again later."       </li> </ul>  |  |         |        |  |  |
| <b>Qualities</b>   | <ul style="list-style-type: none"> <li>● Usability: Provides filters (e.g., by field of expertise).</li> <li>● Performance: List should load quickly.</li> </ul>   |  |         |        |  |  |

### 13. Chat with Counselor

|                             |   |
|-----------------------------|---|
| <b>Name</b>                 | Chat with Counselor.  |
| <b>Participating Actors</b> | System, Student.  |
| <b>Goals</b>                | To initiate secure, one-on-one communication with a chosen counselor for personalized guidance. |
| <b>Trigger</b>              | Student clicks the "Message" button on a Counselor's profile.                                   |

| <b>Pre-Condition</b>  | Student is logged in, and the chosen Counselor is approved.   |  |  |         |        |   |  |
|---|---|--|--|---------|--------|---|--|
| <b>Post-Condition</b>   | A new chat thread is created, and the student can send their first message.   |  |  |         |        |   |  |
| <b>Basic Flow</b>   | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The student navigates to the Homepage.<br/>           2. The student clicks the "Chat" button from the navigation bar.         </td> <td>           1. The system creates a new chat thread.<br/>           2. The system allows the student to type and send the first message.<br/>           3. The system displays the chat interface.         </td> </tr> </tbody> </table> |  |  | Student | System | 1. The student navigates to the Homepage.<br>2. The student clicks the "Chat" button from the navigation bar.   | 1. The system creates a new chat thread.<br>2. The system allows the student to type and send the first message.<br>3. The system displays the chat interface. |
| Student   | System  |  |  |         |        |   |  |
| 1. The student navigates to the Homepage.<br>2. The student clicks the "Chat" button from the navigation bar.   | 1. The system creates a new chat thread.<br>2. The system allows the student to type and send the first message.<br>3. The system displays the chat interface.  |  |  |         |        |   |  |
| <b>Alternate Flow</b>   | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The student navigates to the Homepage.<br/>           2. The student clicks "Chat".<br/>           3. The student re-interacts with the counselor with whom he consulted before.         </td> <td>           1. The system re-opens the chat if a thread already exists.         </td> </tr> </tbody> </table>  |  |  | Student | System | 1. The student navigates to the Homepage.<br>2. The student clicks "Chat".<br>3. The student re-interacts with the counselor with whom he consulted before. | 1. The system re-opens the chat if a thread already exists.  |
| Student   | System  |  |  |         |        |   |  |
| 1. The student navigates to the Homepage.<br>2. The student clicks "Chat".<br>3. The student re-interacts with the counselor with whom he consulted before. | 1. The system re-opens the chat if a thread already exists.   |  |  |         |        |   |  |
| <b>Exceptions</b>   | <ul style="list-style-type: none"> <li>Message Sending Error: Network failure prevents the message from being sent.<br/> <b>Solution:</b> The system locally cache the message content on the user's device and display a "Failed to Send. Check Network Connectivity" status next to the message.</li> </ul>   |  |  |         |        |   |  |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>Security: Chat data is private and secure.</li> <li>Reliability: Real-time messaging capability.</li> </ul>  |  |  |         |        |   |  |

#### 14. Complaint against Counselor

| <b>Name</b>   | Complaint against Counselor.   |  |         |        |   |   |
|---|--|--|---------|--------|---|---|
| <b>Participating Actors</b>   | System, Student.   |  |         |        |   |   |
| <b>Goals</b>  | To formally report inappropriate or unprofessional behavior by a counselor to the Admin team.  |  |         |        |   |   |
| <b>Trigger</b>  | The student clicks "Report Counselor" from the chat interface or counselor profile.  |  |         |        |   |   |
| <b>Pre-Condition</b>  | The student is logged in and has interacted with a Counselor.  |  |         |        |   |   |
| <b>Post-Condition</b>   | A formal complaint report is successfully submitted to the Admin dashboard for review.   |  |         |        |   |   |
| <b>Basic Flow</b>   | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The student navigates to the chat where he/she interacted with the counselor.<br/>           2. The student accesses the Complaint form available on the chat page.<br/>           3. The student details the nature of the complaint.<br/>           4. The student submits the form.         </td> <td>           1. The system logs the complaint details and flags it on the Admin dashboard.<br/>           2. The system sends a confirmation email to the student.         </td> </tr> </tbody> </table> |  | Student | System | 1. The student navigates to the chat where he/she interacted with the counselor.<br>2. The student accesses the Complaint form available on the chat page.<br>3. The student details the nature of the complaint.<br>4. The student submits the form. | 1. The system logs the complaint details and flags it on the Admin dashboard.<br>2. The system sends a confirmation email to the student. |
| Student   | System   |  |         |        |   |   |
| 1. The student navigates to the chat where he/she interacted with the counselor.<br>2. The student accesses the Complaint form available on the chat page.<br>3. The student details the nature of the complaint.<br>4. The student submits the form. | 1. The system logs the complaint details and flags it on the Admin dashboard.<br>2. The system sends a confirmation email to the student.  |  |         |        |   |   |
| <b>Alternate Flow</b>   | <table border="1"> <thead> <tr> <th>Student</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The student navigates to the Counselors Page and searches for a specified counselor's profile.<br/>           2. The student goes to the desired counselor's profile.         </td> <td>           1. The system logs the complaint details and flags it on the Admin dashboard.<br/>           2. The system sends a confirmation email to the student.         </td> </tr> </tbody> </table>  |  | Student | System | 1. The student navigates to the Counselors Page and searches for a specified counselor's profile.<br>2. The student goes to the desired counselor's profile.  | 1. The system logs the complaint details and flags it on the Admin dashboard.<br>2. The system sends a confirmation email to the student. |
| Student   | System   |  |         |        |   |   |
| 1. The student navigates to the Counselors Page and searches for a specified counselor's profile.<br>2. The student goes to the desired counselor's profile.  | 1. The system logs the complaint details and flags it on the Admin dashboard.<br>2. The system sends a confirmation email to the student.  |  |         |        |   |   |

|                   |  |  |
|-------------------|--|--|
|                   | <ol style="list-style-type: none"> <li>3. The student clicks the "Complaint" button.</li> <li>4. The student accesses the Complaint form available on the chat page.</li> <li>5. The student details the nature of the complaint.</li> <li>6. The student submits the form.</li> </ol> |  |
| <b>Exceptions</b> | <ul style="list-style-type: none"> <li>• Submission Error: Database write failure.</li> </ul> <p><b>Solution:</b> The system prevents submission and displays a specific, actionable error message next to the field(s) with incorrect data.</p>                                       |  |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>• Reliability: Ensures all complaints are logged for auditing.</li> <li>• Security: Complaint details are only visible to the Admin.</li> </ul>   |  |

## 15. Register as Counselor

|                             |   |  |           |        |                  |                         |
|-----------------------------|---|--|-----------|--------|------------------|-------------------------|
| <b>Name</b>                 | Register as Counselor.  |  |           |        |                  |                         |
| <b>Participating Actors</b> | System, Counselor, Admin.   |  |           |        |                  |                         |
| <b>Goals</b>                | To submit a formal application and register as an approved career counselor on the platform.  |  |           |        |                  |                         |
| <b>Trigger</b>              | Prospective Counselor clicks "Counselor Sign Up."   |  |           |        |                  |                         |
| <b>Pre-Condition</b>        | A prospective Counselor is a professional seeking to offer services.  |  |           |        |                  |                         |
| <b>Post-Condition</b>       | Counselor status is set to 'Pending Approval'; Admin is notified.   |  |           |        |                  |                         |
| <b>Basic Flow</b>           | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">Counselor</td> <td style="text-align: center; padding: 5px;">System</td> </tr> <tr> <td style="text-align: center; padding: 5px;">1. The Counselor</td> <td style="text-align: center; padding: 5px;">1. The system validates</td> </tr> </table> |  | Counselor | System | 1. The Counselor | 1. The system validates |
| Counselor                   | System  |  |           |        |                  |                         |
| 1. The Counselor            | 1. The system validates   |  |           |        |                  |                         |

|                       |  |  |
|-----------------------|--|--|
|                       | <p>navigates to the “Login Page” and clicks the “Register as Counselor” button.</p> <ol style="list-style-type: none"> <li>2. Counselor completes the detailed registration form (personal info, expertise, CV upload).</li> <li>3. The Counselor submits the form.</li> </ol>   | <p>the input and stores the data.</p> <ol style="list-style-type: none"> <li>2. The system sets the account status to ‘Pending’ and sends a notification to the Admin.</li> <li>3. The system sends a confirmation email to the Counselor that their application is under review.</li> </ol> |
| <b>Alternate Flow</b> | Not Applicable.  |  |
| <b>Exceptions</b>     | <ul style="list-style-type: none"> <li>• CV Upload Failure: Counselor has trouble uploading the file.<br/> <u>Solution:</u> The system offers a retry or alternative upload method.</li> <li>• Incomplete Data: Required fields are left blank.<br/> <u>Solution:</u> The system prevents submission and highlights errors.</li> </ul> |  |
| <b>Qualities</b>      | <ul style="list-style-type: none"> <li>• Security: CV upload must be secure (virus scan recommended).</li> <li>• Reliability: Accurate tracking of application status.</li> </ul>  |  |

## 16. Register as University Ambassador

|                             |  |
|-----------------------------|--|
| <b>Name</b>                 | Register as University Ambassador.   |
| <b>Participating Actors</b> | System, University Ambassador, Admin.  |
| <b>Goals</b>                | To submit an application to represent a university on the platform for content contribution. |
| <b>Trigger</b>              | Prospective Ambassador clicks "Uni Ambassador Sign Up."                                      |

| <b>Pre-Condition</b>   | A prospective Ambassador is a representative seeking to manage a university's data on Pathly.   |  |            |        |  |  |
|--|---|--|------------|--------|--|--|
| <b>Post-Condition</b>  | Ambassador status is set to 'Pending Approval'; Admin is notified of the new request.   |  |            |        |  |  |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>Ambassador</th> <th>System</th> </tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>The Ambassador navigates to the “Login Page” and clicks the “Register as Ambassador” button.</li> <li>Ambassador clicks the Sign-Up link and selects their affiliated university from a list.</li> <li>Ambassador completes the detailed registration form (personal info, official university email/proof of affiliation, contact details).</li> <li>Ambassador submits the form.</li> </ol> </td><td> <ol style="list-style-type: none"> <li>The system validates the input (especially the university affiliation proof).</li> <li>The system sets the account status to 'Pending' and sends a notification to the Admin dashboard.</li> <li>The system sends a confirmation email to the Ambassador that their application is under review.</li> </ol> </td></tr> </tbody> </table> |  | Ambassador | System | <ol style="list-style-type: none"> <li>The Ambassador navigates to the “Login Page” and clicks the “Register as Ambassador” button.</li> <li>Ambassador clicks the Sign-Up link and selects their affiliated university from a list.</li> <li>Ambassador completes the detailed registration form (personal info, official university email/proof of affiliation, contact details).</li> <li>Ambassador submits the form.</li> </ol> | <ol style="list-style-type: none"> <li>The system validates the input (especially the university affiliation proof).</li> <li>The system sets the account status to 'Pending' and sends a notification to the Admin dashboard.</li> <li>The system sends a confirmation email to the Ambassador that their application is under review.</li> </ol> |
| Ambassador   | System  |  |            |        |  |  |
| <ol style="list-style-type: none"> <li>The Ambassador navigates to the “Login Page” and clicks the “Register as Ambassador” button.</li> <li>Ambassador clicks the Sign-Up link and selects their affiliated university from a list.</li> <li>Ambassador completes the detailed registration form (personal info, official university email/proof of affiliation, contact details).</li> <li>Ambassador submits the form.</li> </ol> | <ol style="list-style-type: none"> <li>The system validates the input (especially the university affiliation proof).</li> <li>The system sets the account status to 'Pending' and sends a notification to the Admin dashboard.</li> <li>The system sends a confirmation email to the Ambassador that their application is under review.</li> </ol>  |  |            |        |  |  |
| <b>Alternate Flow</b>  | <table border="1"> <thead> <tr> <th>Ambassador</th> <th>System</th> </tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>Ambassador clicks the Sign Up link and adds their affiliated university manually instead of selecting from the list i.e. their affiliated university is not in the list.</li> <li>Ambassador completes the detailed registration form (personal info, official university email/proof of affiliation, contact</li> </ol> </td><td> <ol style="list-style-type: none"> <li>The system validates the input (especially the university affiliation proof).</li> <li>The system sets the account status to 'Pending' and sends a notification to the Admin dashboard.</li> <li>The system sends a confirmation email to the Ambassador that their application is under</li> </ol> </td></tr> </tbody> </table>  |  | Ambassador | System | <ol style="list-style-type: none"> <li>Ambassador clicks the Sign Up link and adds their affiliated university manually instead of selecting from the list i.e. their affiliated university is not in the list.</li> <li>Ambassador completes the detailed registration form (personal info, official university email/proof of affiliation, contact</li> </ol>  | <ol style="list-style-type: none"> <li>The system validates the input (especially the university affiliation proof).</li> <li>The system sets the account status to 'Pending' and sends a notification to the Admin dashboard.</li> <li>The system sends a confirmation email to the Ambassador that their application is under</li> </ol>         |
| Ambassador   | System  |  |            |        |  |  |
| <ol style="list-style-type: none"> <li>Ambassador clicks the Sign Up link and adds their affiliated university manually instead of selecting from the list i.e. their affiliated university is not in the list.</li> <li>Ambassador completes the detailed registration form (personal info, official university email/proof of affiliation, contact</li> </ol>  | <ol style="list-style-type: none"> <li>The system validates the input (especially the university affiliation proof).</li> <li>The system sets the account status to 'Pending' and sends a notification to the Admin dashboard.</li> <li>The system sends a confirmation email to the Ambassador that their application is under</li> </ol>  |  |            |        |  |  |

|                   |  |         |
|-------------------|--|---------|
|                   | <p>details).</p> <p>3. Ambassador submits the form.</p>  | review. |
| <b>Exceptions</b> | <ul style="list-style-type: none"> <li>Incomplete Data: Required fields are left blank.</li> </ul> <p><b>Solution:</b> The system prevents submission and highlights errors.</p>     |         |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>Security: Verification of affiliation is crucial.</li> <li>Reliability: Accurate tracking of the application status is maintained.</li> </ul> |         |

## 17. Add Institute

| <b>Name</b>  | Add Institute.  |  |      |        |  |  |
|--|---|--|------|--------|--|--|
| <b>Participating Actors</b>  | System, University Ambassador, Admin.   |  |      |        |  |  |
| <b>Goals</b>   | To submit detailed information about their university (rankings, programs, registration links) for the platform database.   |  |      |        |  |  |
| <b>Trigger</b>   | University Ambassador is assigned to a new institute or needs to submit initial data.   |  |      |        |  |  |
| <b>Pre-Condition</b>   | University Ambassador is logged in and their access is approved by the Admin.   |  |      |        |  |  |
| <b>Post-Condition</b>  | A new institute record is created or updated in the database, viewable by students.   |  |      |        |  |  |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. Ambassador navigates to the "Add/Edit Institute" page.<br/>           2. Ambassador fills out the form with         </td> <td>           1. The system performs a validation check against existing institute names and registration numbers.         </td> </tr> </tbody> </table> |  | User | System | 1. Ambassador navigates to the "Add/Edit Institute" page.<br>2. Ambassador fills out the form with | 1. The system performs a validation check against existing institute names and registration numbers. |
| User   | System  |  |      |        |  |  |
| 1. Ambassador navigates to the "Add/Edit Institute" page.<br>2. Ambassador fills out the form with | 1. The system performs a validation check against existing institute names and registration numbers.  |  |      |        |  |  |

|   | <table border="1"> <tr> <td style="text-align: center;">university<br/>(Name,<br/>Programs,<br/>Links).</td><td style="text-align: center;">details<br/>Ranking,<br/>Official</td><td>           2. The system validates the data and adds a new institute.<br/>           3. The system updates the university database.         </td></tr> </table> | university<br>(Name,<br>Programs,<br>Links).   | details<br>Ranking,<br>Official | 2. The system validates the data and adds a new institute.<br>3. The system updates the university database. |   |    |
|---|---|--|---------------------------------|--|---|----|
| university<br>(Name,<br>Programs,<br>Links).                                    | details<br>Ranking,<br>Official   | 2. The system validates the data and adds a new institute.<br>3. The system updates the university database. |                                 |  |   |    |
| <b>Alternate Flow</b>   | <table border="1"> <thead> <tr> <th>User</th><th>System</th></tr> </thead> <tbody> <tr> <td>           1. The Ambassador submits data for a new institute (Basic Flow Step).<br/><br/>           2.         </td><td>1.</td></tr> </tbody> </table>   |  | User                            | System   | 1. The Ambassador submits data for a new institute (Basic Flow Step).<br><br>2. | 1. |
| User  | System  |  |                                 |  |   |    |
| 1. The Ambassador submits data for a new institute (Basic Flow Step).<br><br>2. | 1.  |  |                                 |  |   |    |
| <b>Exceptions</b>   | <ul style="list-style-type: none"> <li>The Ambassador views the error.<br/> <b>Solution:</b> The system detects a high probability of a duplicate record. The system displays the specific name of the existing institute and redirects the Ambassador to the page for updating that existing institute's details instead.           </li> </ul>      |  |                                 |  |   |    |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>Accuracy: Data input must be validated and verified.</li> <li>Maintainability: Easy form structure for periodic updates.</li> </ul>  |  |                                 |  |   |    |

## 18. View Merit Lists of Previous Years

| <b>Name</b>   | View Merit Lists of Previous Years.   |  |      |        |   |   |
|---|---|--|------|--------|---|---|
| <b>Participating Actors</b>   | System, Counselor, Student, University Ambassador, Admin.   |  |      |        |   |   |
| <b>Goals</b>  | To access historical university merit lists for comparison and planning.  |  |      |        |   |   |
| <b>Trigger</b>  | The user clicks "View Merit Lists" on a university detail page or dedicated section.  |  |      |        |   |   |
| <b>Pre-Condition</b>  | The user is on the website (logged in or logged out).   |  |      |        |   |   |
| <b>Post-Condition</b>   | A list of historical merit lists (based on university and session) is displayed.  |  |      |        |   |   |
| <b>Basic Flow</b>   | <table border="1"> <thead> <tr> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. The user navigates to the “View Merit Lists of Previous Years” from the panel in the left.<br/>           2. The user selects a University and Session/Year.         </td> <td>           1. The system retrieves the corresponding merit list data from the database.<br/>           2. The system displays the data in a clear, comparative table format.         </td> </tr> </tbody> </table> |  | User | System | 1. The user navigates to the “View Merit Lists of Previous Years” from the panel in the left.<br>2. The user selects a University and Session/Year. | 1. The system retrieves the corresponding merit list data from the database.<br>2. The system displays the data in a clear, comparative table format. |
| User  | System  |  |      |        |   |   |
| 1. The user navigates to the “View Merit Lists of Previous Years” from the panel in the left.<br>2. The user selects a University and Session/Year. | 1. The system retrieves the corresponding merit list data from the database.<br>2. The system displays the data in a clear, comparative table format.   |  |      |        |   |   |
| <b>Alternate Flow</b>   | Not applicable.   |  |      |        |   |   |
| <b>Exceptions</b>   | <ul style="list-style-type: none"> <li>Retrieval Failure: Database connection error.<br/> <b>Solution:</b> The system implements an automated, timed retry mechanism (e.g., attempt to reconnect 3 times with a 10-second delay between attempts) before declaring a complete failure.       </li> </ul>  |  |      |        |   |   |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>Reliability: Historical data must be consistent.</li> <li>Usability: Provides clear filters (Year, Program)</li> </ul>   |  |      |        |   |   |

## 19. Approve/Reject Counselor

| <b>Name</b>  | Approve/Reject Counselor.  |  |       |        |  |  |
|--|--|--|-------|--------|--|--|
| <b>Participating Actors</b>  | System, Admin.   |  |       |        |  |  |
| <b>Goals</b>   | To finalize the registration status of a prospective counselor based on a review of their application.   |  |       |        |  |  |
| <b>Trigger</b>   | Admin navigates to the "Pending Requests" section of the dashboard.  |  |       |        |  |  |
| <b>Pre-Condition</b>   | Admin is logged in, and a Counselor has a pending application request.   |  |       |        |  |  |
| <b>Post-Condition</b>  | The Counselor's account status is updated (Approved or Rejected), and they receive the corresponding email notification.   |  |       |        |  |  |
| <b>Basic Flow</b>  | <table border="1"> <thead> <tr> <th>Admin</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. Admin navigates to the "Pending Requests" section of the dashboard.<br/>           2. Admin views the list of pending Counselor applications.<br/>           3. Admin selects an application to review details (CV, questionnaire).<br/>           4. Admin decides to Approve or Reject.<br/>           5. Admin clicks the corresponding button (Approve/Reject).         </td><td>           1. The system updates the Counselor's status in the database.<br/>           2. The system sends the appropriate confirmation or rejection email to the Counselor.         </td></tr> </tbody> </table> |  | Admin | System | 1. Admin navigates to the "Pending Requests" section of the dashboard.<br>2. Admin views the list of pending Counselor applications.<br>3. Admin selects an application to review details (CV, questionnaire).<br>4. Admin decides to Approve or Reject.<br>5. Admin clicks the corresponding button (Approve/Reject). | 1. The system updates the Counselor's status in the database.<br>2. The system sends the appropriate confirmation or rejection email to the Counselor. |
| Admin  | System   |  |       |        |  |  |
| 1. Admin navigates to the "Pending Requests" section of the dashboard.<br>2. Admin views the list of pending Counselor applications.<br>3. Admin selects an application to review details (CV, questionnaire).<br>4. Admin decides to Approve or Reject.<br>5. Admin clicks the corresponding button (Approve/Reject). | 1. The system updates the Counselor's status in the database.<br>2. The system sends the appropriate confirmation or rejection email to the Counselor.   |  |       |        |  |  |
| <b>Alternate Flow</b>  | <table border="1"> <thead> <tr> <th>Admin</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>           1. Admin views the list of pending Counselor applications.<br/>           2. Admin selects an         </td><td>           1. The system sends email requesting more details to the respective counselor.         </td></tr> </tbody> </table>  |  | Admin | System | 1. Admin views the list of pending Counselor applications.<br>2. Admin selects an  | 1. The system sends email requesting more details to the respective counselor.   |
| Admin  | System   |  |       |        |  |  |
| 1. Admin views the list of pending Counselor applications.<br>2. Admin selects an  | 1. The system sends email requesting more details to the respective counselor.   |  |       |        |  |  |

|                   |  |  |
|-------------------|--|--|
|                   | <p>application to review details (CV, questionnaire).</p> <p>3. Admin requests for more details via email and flags the application 'On Hold'.</p>   |  |
| <b>Exceptions</b> | <ul style="list-style-type: none"> <li>Email Delivery Failure: The notification email fails to be sent.</li> </ul> <p><b>Solution:</b> The system logs the specific email error (e.g., SMTP server timeout, invalid address) and automatically attempts to resend the email after a short delay (e.g., 5 minutes) up to a defined limit (e.g., 3 retries).</p> |  |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>Security: Only the Admin role can execute this action.</li> <li>Reliability: Status change must be immediate and the email notification accurate.</li> </ul>  |  |

## 20. Publish Site Announcement

|                             |  |  |       |        |
|-----------------------------|--|--|-------|--------|
| <b>Name</b>                 | Publish Site Announcement.   |  |       |        |
| <b>Participating Actors</b> | System, Admin.   |  |       |        |
| <b>Goals</b>                | To post dynamic, public-facing news, updates, or university announcements on the platform's homepage.  |  |       |        |
| <b>Trigger</b>              | Admin navigates to the "Create New Announcement" section of the dashboard.   |  |       |        |
| <b>Pre-Condition</b>        | Admin is logged in.  |  |       |        |
| <b>Post-Condition</b>       | A new announcement is immediately and dynamically displayed on the homepage and relevant user dashboards until its expiry date.                            |  |       |        |
| <b>Basic Flow</b>           | <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="padding: 5px;">Admin</td> <td style="padding: 5px;">System</td> </tr> </table> |  | Admin | System |
| Admin                       | System   |  |       |        |

|   | <ol style="list-style-type: none"> <li>1. Admin navigates to the "Content Management" section.</li> <li>2. Admin selects "Create New Announcement."</li> <li>3. Admin inputs the content (title, body, optional image) and sets a display period/expiry date.</li> <li>4. Admin clicks "Publish."</li> </ol>   | <ol style="list-style-type: none"> <li>1. The system validates the content and saves it to the announcements database.</li> <li>2. The system renders the new announcement on the public homepage.</li> </ol> |        |   |  |  |
|---|--|---|--------|---|--|--|
| <b>Alternate Flow 1</b>   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">Admin</th><th style="text-align: center; padding: 5px;">System</th></tr> </thead> <tbody> <tr> <td style="padding: 10px;"> <ol style="list-style-type: none"> <li>1. Admin go to the "Admin Dashboard".</li> <li>2. On the content management section, Admin selects "Create New Announcement".</li> <li>3. Admin adds all the information about the announcement and sets a future date/time for the content to automatically go live.</li> </ol> </td><td style="padding: 10px;"> <ol style="list-style-type: none"> <li>1. The system sets the announcement to live on the scheduled date/time.</li> </ol> </td></tr> </tbody> </table> | Admin   | System | <ol style="list-style-type: none"> <li>1. Admin go to the "Admin Dashboard".</li> <li>2. On the content management section, Admin selects "Create New Announcement".</li> <li>3. Admin adds all the information about the announcement and sets a future date/time for the content to automatically go live.</li> </ol> | <ol style="list-style-type: none"> <li>1. The system sets the announcement to live on the scheduled date/time.</li> </ol>                        |  |
| Admin   | System   |   |        |   |  |  |
| <ol style="list-style-type: none"> <li>1. Admin go to the "Admin Dashboard".</li> <li>2. On the content management section, Admin selects "Create New Announcement".</li> <li>3. Admin adds all the information about the announcement and sets a future date/time for the content to automatically go live.</li> </ol> | <ol style="list-style-type: none"> <li>1. The system sets the announcement to live on the scheduled date/time.</li> </ol>  |   |        |   |  |  |
| <b>Alternate Flow 2</b>   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">Admin</th><th style="text-align: center; padding: 5px;">System</th></tr> </thead> <tbody> <tr> <td style="padding: 10px;"> <ol style="list-style-type: none"> <li>1. Admin go to the "Admin Dashboard".</li> <li>2. On the content management section, Admin selects "Create New Announcement".</li> <li>3. Admin clicks on the "edit" button on a published</li> </ol> </td><td style="padding: 10px;"> <ol style="list-style-type: none"> <li>1. The system successfully saves changes made by the admin on an existing public announcement.</li> </ol> </td></tr> </tbody> </table>   | Admin   | System | <ol style="list-style-type: none"> <li>1. Admin go to the "Admin Dashboard".</li> <li>2. On the content management section, Admin selects "Create New Announcement".</li> <li>3. Admin clicks on the "edit" button on a published</li> </ol>  | <ol style="list-style-type: none"> <li>1. The system successfully saves changes made by the admin on an existing public announcement.</li> </ol> |  |
| Admin   | System   |   |        |   |  |  |
| <ol style="list-style-type: none"> <li>1. Admin go to the "Admin Dashboard".</li> <li>2. On the content management section, Admin selects "Create New Announcement".</li> <li>3. Admin clicks on the "edit" button on a published</li> </ol>  | <ol style="list-style-type: none"> <li>1. The system successfully saves changes made by the admin on an existing public announcement.</li> </ol>   |   |        |   |  |  |

|                   |  |  |
|-------------------|--|--|
|                   | announcement.  |  |
| <b>Exceptions</b> | <ul style="list-style-type: none"> <li>The system sanitizes input or rejects submission.</li> </ul> <p><b>Solution:</b> The system prevents submission and displays a specific, actionable error message next to the field(s) with incorrect data.</p> |  |
| <b>Qualities</b>  | <ul style="list-style-type: none"> <li>Maintainability: Content management should be separate from code logic.</li> <li>Usability: The interface should allow for rich text formatting.</li> </ul>   |  |

## **22. User Stories:**

### **1. Student:**

#### **Epic user story:**

As a student, I want to create my profile, view my academic aggregate, receive university suggestions, and access guidance from approved counselors through secure one-on-one chat, so that I can make informed career choices and receive personalized support throughout my admission journey.

#### **Detailed User Story:**

1. As a student, I want to register and log in securely so that I can access my personalized dashboard.
2. As a student, I want to complete my profile and set academic/career preferences so that the system can recommend suitable universities.
3. As a student, I want the system to calculate and show my aggregate so that I can understand my eligibility across universities.
4. As a student, I want to see universities that match my academic score and preferences so that I can choose where to apply.
5. As a student, I want to directly open the official university application page so that I can apply seamlessly.
6. As a student, I want to browse and compare counselors so that I can choose the right one based on expertise.

7. As a student, I want a private chat channel with a counselor so that I can receive confidential academic/career guidance.
8. As a student, I want to be able to report a counselor's misconduct so that system administrators can review and take action.

## **2. Admin:**

### **Epic user story:**

As an admin, I want to oversee users, manage counselor accounts, manage university records and address complaints so that the platform remains reliable, safe, accurate, and professionally managed.

### **Detailed User Story:**

1. As an admin, I want to securely log in and access my dashboard so that I can manage platform functionality.
2. As an admin, I want to review and approve counselor applications based on qualifications so that students receive guidance from credible individuals.
3. As an Admin, I want to send an approval email to a counsellor once their account is approved, so that the counsellor is informed and can start using the system.
4. As an admin, I want to update university lists, merit data, and admission URLs so that suggestions shown to students remain accurate.
5. As an Admin, I want to view ambassadors' requests for adding new universities to the system , so that I can review and approve or reject the requested additions.
6. As an admin, I want to receive, review, and resolve complaints against counselors so that student concerns are addressed fairly.
7. As an Admin, I want to delete a counsellor's account in case of misconduct or violation of platform policies, so that the integrity and safety of the platform is maintained.
8. As an admin, I want to update terms and policies so that the platform remains compliant and current.

## **3.Career Counsellor:**

### **Epic user story:**

As a counselor, I want to maintain an up-to-date professional profile, interact with students through secure one-on-one chat, and provide academic and career guidance, so that I can support students in making informed educational and professional decisions.

### **Detailed User Story:**

1. As a counselor, I want to log in only after my account is approved by the admin so that only verified professionals can provide guidance.
2. As a counselor, I want to receive email, once it's approved by the admin so that I can access my personal dashboard.
3. As a counselor, I want to update my profile details such as education, experience, field expertise, and profile picture so that students can evaluate my qualifications.
4. As a counselor, I want a personalized dashboard showing recent student chats, pending conversations, and guidance requests so that I can manage my interactions efficiently.
5. As a counselor, I want to see which students have initiated chats with me so that I can respond and engage with them.
6. As a counselor, I want to conduct confidential, one-on-one text conversations with students so that I can provide personalized guidance.
7. As a counselor, I want to receive notifications when students send new messages so that I can respond promptly.
8. As a counselor, I want to access my past chat history with students so that I can continue guidance with proper context.
9. As a counselor, I want to be notified if a complaint is filed against me so that I am aware of professional feedback and can cooperate during review.
10. As a Counsellor, I want my account to be deleted in case of continuous violations so that the platform maintains its professional standards and students remain protected from inappropriate guidance.

### **4. University Ambassador:**

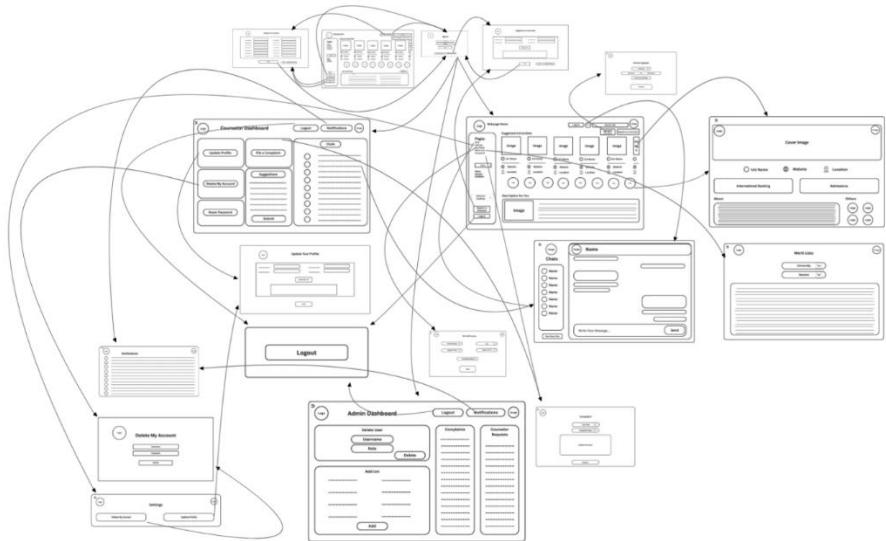
#### **Epic user story:**

As a University Ambassador, I want to request the addition of new universities to the platform so that students have access to a broader range of educational opportunities.

### **Detailed User Story:**

1. As a University Ambassador, I want to submit a request to add a new university to the website so that the admin can review and approve the university for students to explore.

## **23. Story Board**



## **24. References:**

- [1] "Home - EduVision.com.au." Accessed: Nov. 02, 2025. [Online]. Available: <https://eduvision.com.au/>
  - [2] "Pakistan's Largest Educational News & Information Website – Campus Guru." Accessed: Nov. 02, 2025. [Online]. Available: <https://campusguru.pk/en>
  - [3] "Merafuture - AI Based Aptitude Testing and Career Counselling." Accessed: Nov. 02, 2025. [Online]. Available: <https://merafuture.pk/>