

# 1 Problem/Statement of Purpose

Job hunting is traditionally tedious, involving lengthy job descriptions, repetitive application forms, and complex interfaces that discourage quick and efficient application processes. Many users—particularly recent graduates, entry-level professionals, and experienced workers seeking streamlined career transitions—face frustration due to cumbersome and repetitive job application experiences. They desire a simpler, intuitive, and faster way to discover, apply for, and manage job opportunities.

## 2 Our Proposed Solution

The app is a **Tinder-style job application platform** where users can quickly browse through job listings and apply with just a swipe.

The app will consist of five core modules:

- **User Authentication:** Simple local login and registration system.
- **Profile Management:** Allows users to input basic information like skills, experience, and portfolio links.
- **Job Fetching Engine:** Pulls job listings from local mock data for the MVP.
- **Swipe Card System:** Displays jobs in a swipeable card interface where users can swipe left to skip or right to apply.
- **Applications Tracker:** Keeps a record of all jobs the user has applied to and tracks their status.

For the MVP, we will focus on **basic left/right button swipes, mock job data, and local application tracking** to avoid complex external integrations. Swipe gestures, external APIs, and full application submissions may be added later if time allows.

Future Features:

- Advanced swipe gestures
- Integration with external APIs for real-time job listings
- Automatic submission to external job portals

The **UI layout** will also be simple:

- A home screen with a swipeable job card.
- A profile setup screen.
- A settings screen for notifications and privacy.
- A tracker screen showing all applied jobs.

### 3.1 User Personas

Persona 1: Entry-level Applicant	
Name: Emily Carter Age/Gender: 22, Female Marital Status: Single Occupation: Recent graduate with a degree in Computer Science Hobbies: Gaming, watching short videos, participating in hackathons Tech Proficiency: High (comfortable with apps and basic tech tools) Devices: iPhone 13 Pro, MacBook Air Quote: "Job hunting is such a hassle—I just want it to be as easy as binge-watching shows."	
Goals	Challenges/Pain points
<ol style="list-style-type: none"><li>1. Quickly browse internships and entry-level positions that match her skills.</li><li>2. Complete applications with minimal time and effort.</li></ol>	<ol style="list-style-type: none"><li>1. Dislikes filling out complicated forms.</li><li>2. Gets impatient reading through long, tedious job descriptions.</li><li>3. Worries about missing out on good opportunities.</li></ol>

Persona 2: Senior-level Applicant	
Name: Ethan Miller Age/Gender: 30, Male Marital Status: Married Occupation: Marketing Manager with 5 years of experience Hobbies: Yoga, traveling, reading business magazines Tech Proficiency: High (heavy smartphone user, familiar with LinkedIn and other platforms) Devices: iPhone 15, MacBook Pro Quote: "Filling out applications manually for every job is exhausting—I'd love a smarter, more efficient way to apply."	
Goals	Challenges/Pain points
<ol style="list-style-type: none"><li>1. Find suitable mid- to senior-level positions efficiently during a career move.</li><li>2. Manage job applications and information in a centralized, streamlined way.</li></ol>	<ol style="list-style-type: none"><li>1. Hates having to repeatedly fill in personal information or re-upload resumes.</li><li>2. Wants highly relevant job recommendations, not a flood of unrelated roles.</li><li>3. Prioritizes user experience and data privacy.</li></ol>

## 3.2 User Stories

### **Persona 1:** Emily Carter, the Entry-Level Applicant

1. User Story 1:  
As an upcoming graduate, I want to quickly swipe through job cards like short videos so that I can easily filter internships or entry-level opportunities I'm interested in.
2. User Story 2:  
As a job seeker, I want to apply without being redirected to complex third-party websites, saving precious time during my job search.

### **Persona 2:** Ethan Miller, the Senior-Level Applicant

3. User Story 3:  
As an experienced professional, I want the platform to recommend mid- to senior-level positions that match my background, so I don't have to waste time filtering through irrelevant jobs.
4. User Story 4:  
As a seasoned user, I want my profile to be saved and automatically used for applications, so I don't have to repeatedly fill out forms or upload my resume, making my career transition smoother.

## 3.3 Use Cases

1. **Browsing Job Cards:** A job seeker opens the app, and the system automatically loads a job card. The user can view a brief summary of the position and swipe left to skip or right to apply, continuing to the next card.
2. **Quick Apply:** When browsing, a user swipes right on a job card. The system immediately records the application and saves the position to the "My Applications" list for future tracking and management.
3. **Updating Profile Information:** The user navigates to their personal profile page, edits details such as their name, email, and resume, and saves the changes. The system ensures updated information is used for future applications.
4. **Viewing Past Applications:** The user wishes to review their past applications, enters the "My Applications" section, and browses a list of positions they've applied for. Clicking any entry displays more details or the status of the application.
5. **Personalized Recommendations:** Experienced users like Ethan want smarter job matches. Based on preferences and resume keywords, the system filters and recommends relevant opportunities, displaying them as swipeable job cards.

## 4 Wireframe Sketches

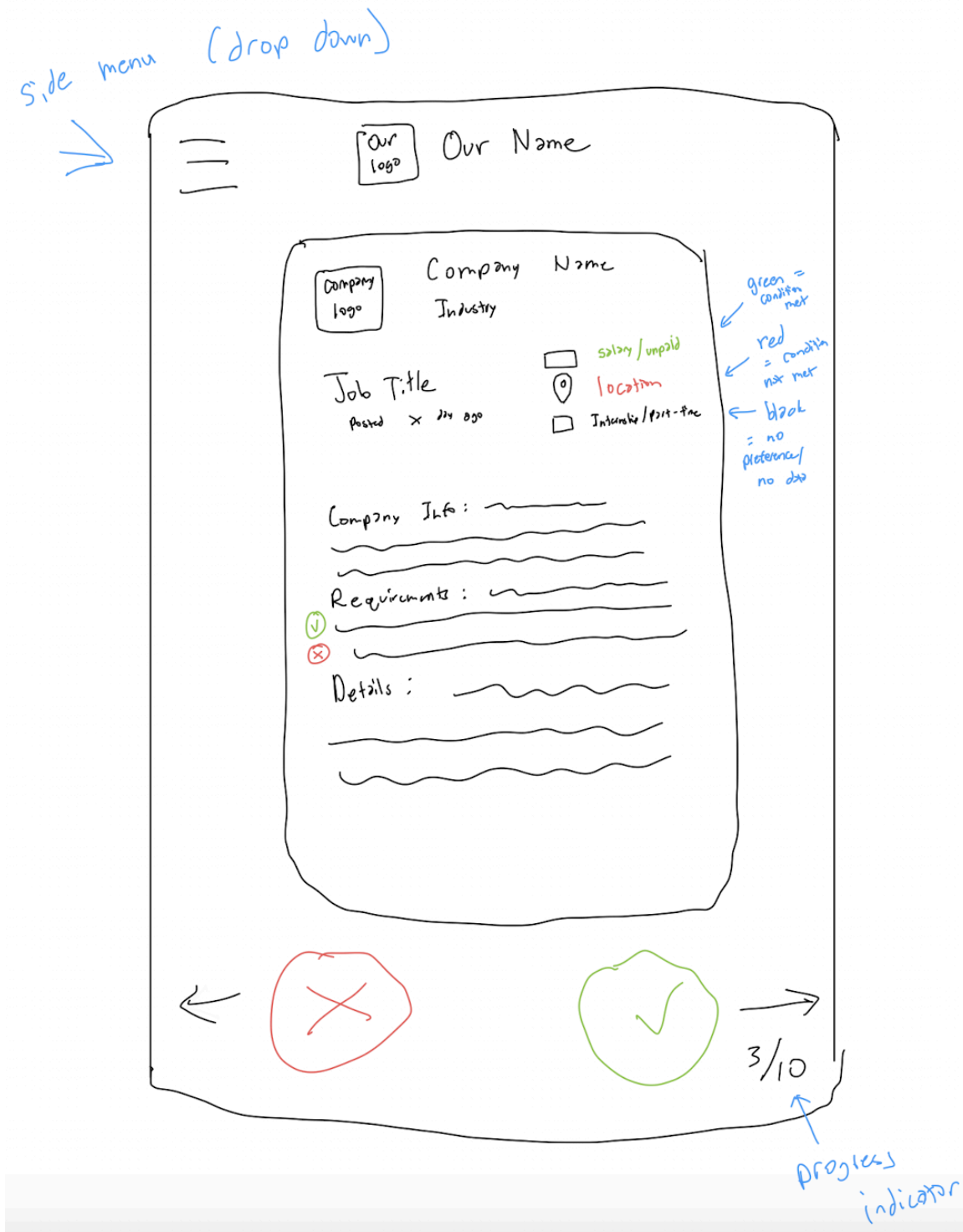


Figure 4.1: Job Browsing Page. Presents user with a card displaying company information and job description. User can skip or apply by swiping or clicking the buttons.

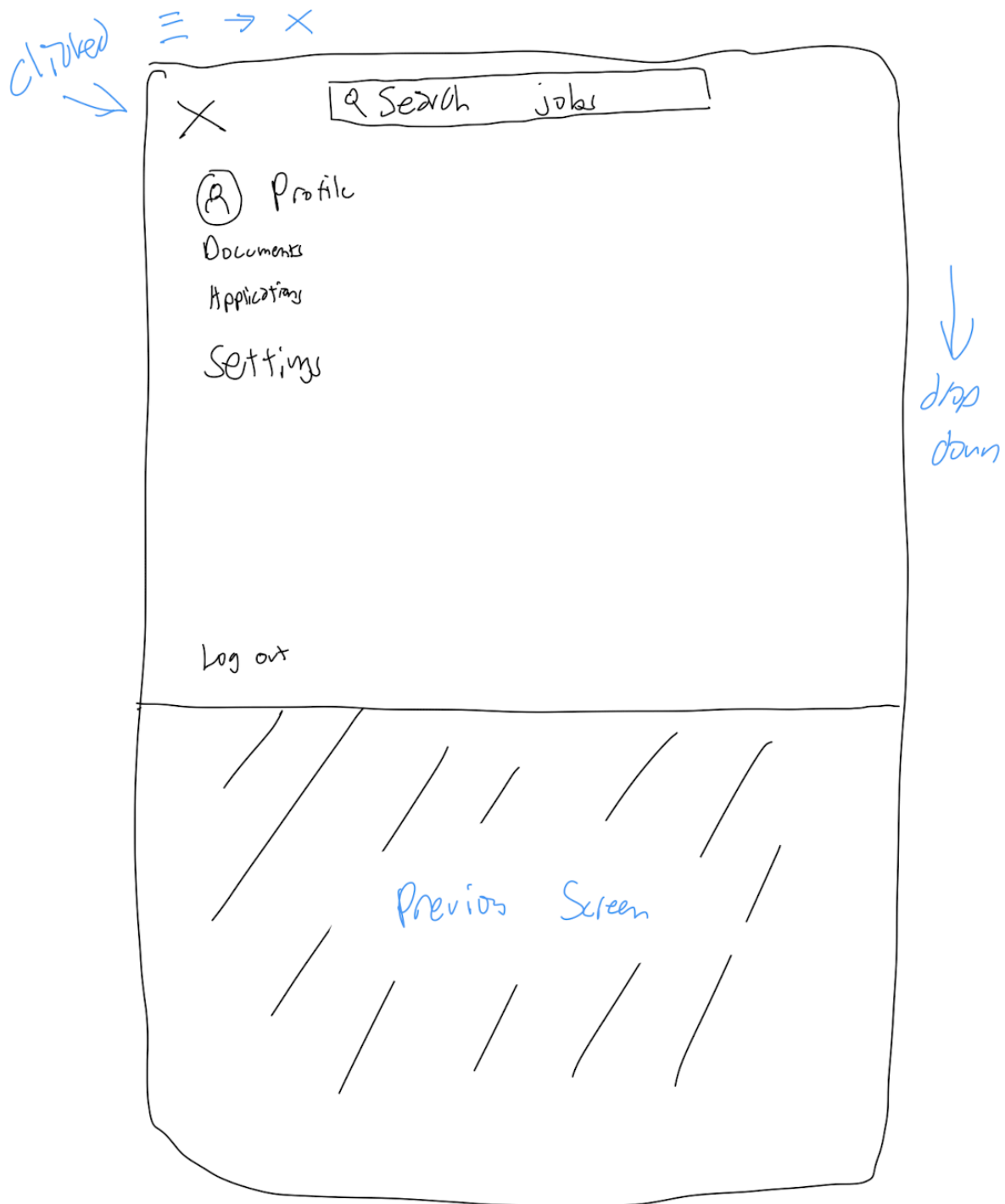



Figure 4.2: Menu overlay. Allows user to access account settings and change their job search.

Back  
↓

←

Profile



Name

Contact

email : \_\_\_\_\_

phone : \_\_\_\_\_

Background

College/uni : \_\_\_\_\_

Expected graduation : \_\_\_\_\_

From : \_\_\_\_\_

First-gen : \_\_\_\_\_

Authorized to work in US : \_\_\_\_\_

Requires sponsorship? : \_\_\_\_\_

Veteran? : \_\_\_\_\_

Preferences

Preferred Industry(s) : \_\_\_\_\_

Preferred Location(s) : \_\_\_\_\_

Preferred Rate(s) : \_\_\_\_\_

Minimum Salary : \_\_\_\_\_

Cancel

Save

Figure 4.3: User profile page. Allows user to edit their profile information as well as job preferences. This will impact what is shown on their fyp.

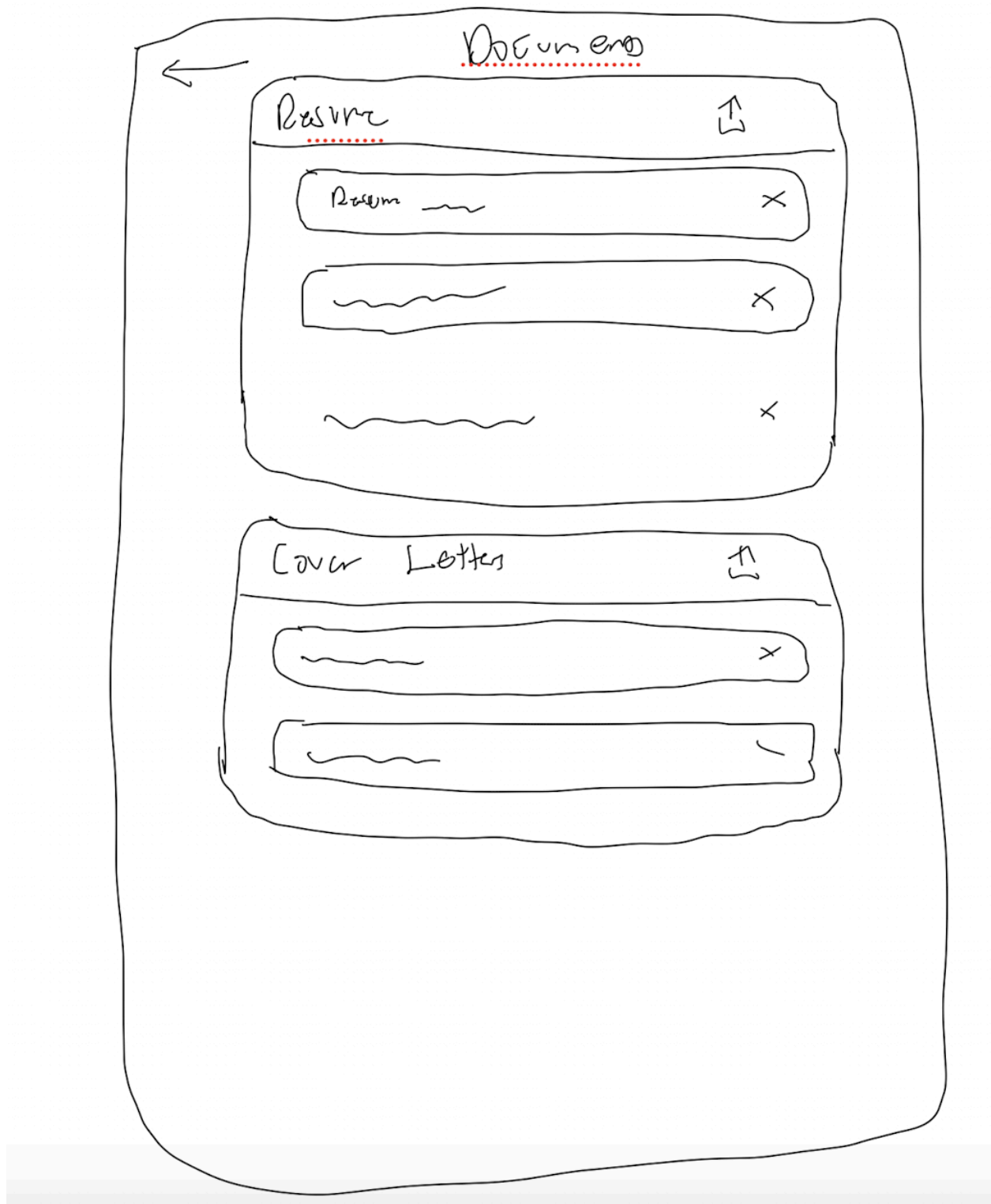


Figure 4.4: Documents page. Where the user can view what documents they have uploaded (cover letter, resume, etc).

Application Status

Company	Date	Link
○ ~~~~~	4/27/2025	~~~~~
○ ~~~~~	~~~~~	~~~~~
.	.	.
.	.	.
/	.	.
.	.	.

Figure 4.5: Application status/management page. Allows user to view what applications they have submitted to what companies, the date, and links to the emails/submissions.



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Settings

Notifications

Date Mode

Save

Security

Old Password

New Password

Confirm Password

Save

Account

First Name

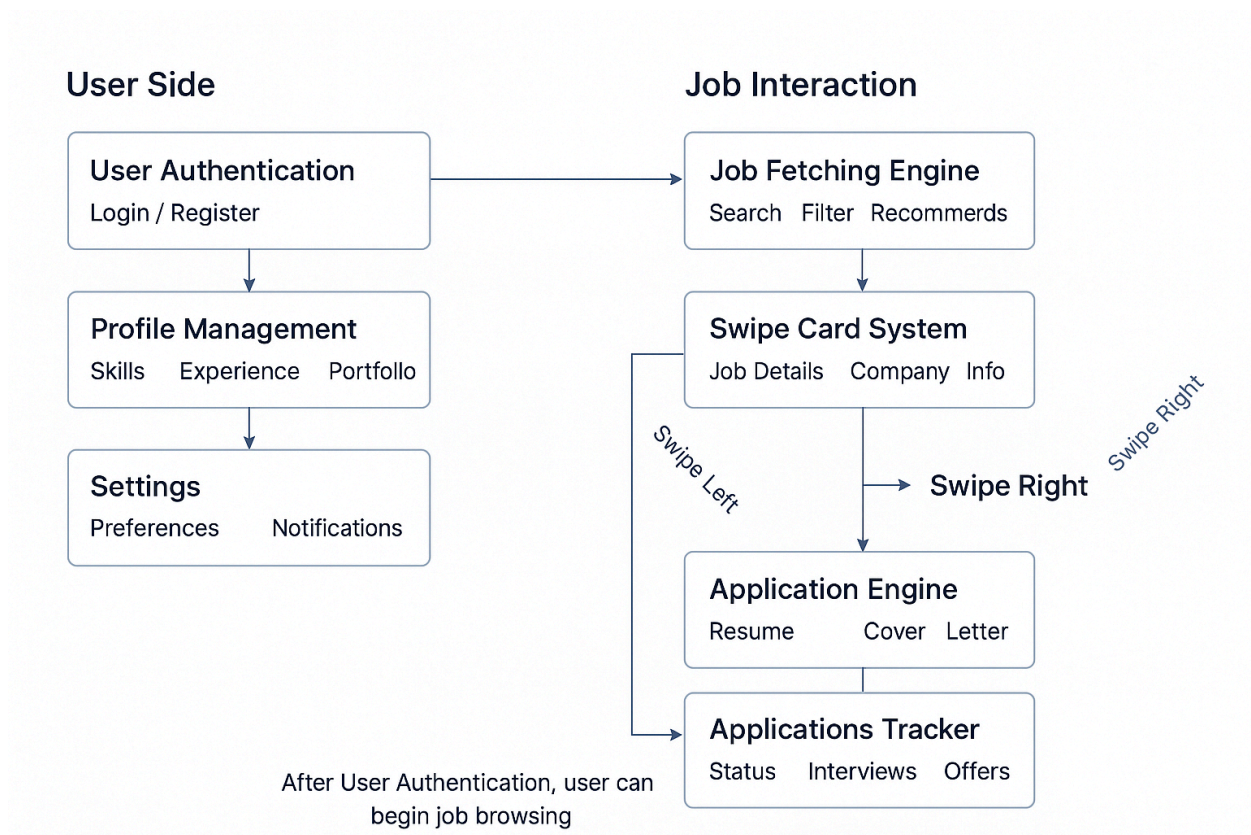
Last Name

Email

Delete Profile

Figure 4.6: Settings page. Includes UI settings, security, and notification toggles.

## 5 Flowcharts



### Module Descriptions:

1. **User Authentication:** Handles user login, registration, and session management.
2. **Profile Management:** Manages user profile data including skills, work experience, and uploaded portfolio/resume.
3. **Settings:** Allows users to configure their app preferences, notification settings, and privacy options.
4. **Job Fetching Engine:** Fetches available job postings from external APIs or an internal job database based on filters and search criteria.
5. **Swipe Card System:** Displays job information in a swipeable card interface. Detects swipe gestures and triggers appropriate actions (apply or skip).
6. **Application Engine:** Automatically submits the user's resume and profile information to the selected job when the user swipes right.
7. **Applications Tracker:** Stores records of all jobs the user has applied to. Tracks application statuses such as submitted, viewed, interview scheduled, or offer received.

## 6 Risk Assessment and Rabbit Holes - Limits and MVP

- Swiping Gesture
  - simulating a Tinder-like swipe can become a very large technical rabbit hole
  - prioritize basic **left/right buttons** to simulate ‘swiping left’ and ‘swiping right’
  - add swipe gestures if time permits (optional)
- External API Job Fetching
  - fetching live job data from external sources (LinkedIn, Indeed, Handshake, etc.) usually requires API access, authentication, and sometimes even subscriptions/payments
  - instead, work with **mocked job data** (local JSON) for minimum viable product
  - add external job APIs if time permits
- Auto-sending Application
  - some job applications require different forms, captchas, and authentication
  - in mvp, ‘applying’ may mean saving job application to **local ‘My Applications’ list**
- User Authentication
  - secure login and signup systems could quickly and potentially become a rabbit hole
    - password, encryption, email verification
  - **simple login** using frontend only for MVP
    - username and password stored in local memory / localStorage
- Building Resume
  - full resume builder can be very complex to implement (file uploads and parsing)
  - instead for MVP, users will **manually input** details in text fields