SW Engineering CSC648/848
Spring 2021

Application Title: Milestone

Section 02 - Team 06

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Milestone 2

History Table

Submitted	Revised
3/10/2021	
Revision Summary	

1. Functional Requirements

Priority 1

Users

1. First-time visitors shall be onboarded.
2. Guests (students, and headhunters) who do not want to sign up yet, shall be able to search.
3. Search capability for new graduates or students by major, demographics, and military code.
4. Students shall be able to search for open positions of interest to them.
5. Students shall have the option to automatically build a profile from their resume.
6. A new graduate or senior shall use the system to request endorsements from a professor at the university.
7. Students shall register and get alerts for matching profiles that they are looking for.
8. Endorsers shall rate students in a scale from 1-5 fashion, being 5 the highest ratings that implies knowledge, responsible, teamwork, leadership, committed to success, etc and enter recommendations.
9. Headhunters shall register to use the system.
10. Headhunters shall create job postings.
11. Headhunters shall specify demographic preferences and have results highlighted accordingly.

Admin

12. An Administrator shall verify a headhunter.
13. Administrative capabilities shall trigger matching alerts to a headhunter and student that fits qualification of a job posting by headhunter.

Priority 2

Users

14. Students shall be given suggestions to improve their profiles.
15. Students and headhunters shall participate in a chat dialogue.
16. Endorsers shall be able to login with verification of university email.

Priority 3

Users

17. Students shall be able to upload video to showcase skills.

Table of Priorities Per Persona

	Profile (P1)	Login (P1)	Messaging (P2)	Searching (P1)	Posting (P1)	Endorse (P1)	Verify (P2)	Upload Video (P3)
Student	x	x	x	x				x
Endorsers			x	x		x		
Headhunters	x	x	x	x	x			
Admin		x	x	x			x	
Guest				x				

2. UI Mockups and Storyboards

Use Case 1

Edward wants to create a profile on our website. They choose to register for an account.

About Login Register

I'm A Student

Create Profile

I'm A Headhunter

I'm An Endorser

They fill out the registration form.

About Login Register

Register As A Student▾

Email [   ] @mail.sfsu.edu

Full Name [first name] [M.I.] [last name]

Graduation Date [month ▾] [year]

Resume [Upload] ☐ fill out experience and skills for me

Coursework [+]

Skills [+]

Work Experience [+]

Profile Picture [Upload]

About You [   ]

[Register]

They confirm their student email externally.

Please Check Your University E-Mail To Verify Your Account

Didn't Receive An E-Mail?

Dismiss

Resend   Change Mail

They upload a video to the website showcasing their programming skills.

About   Log Out

About

Student Name

Resume

Upload

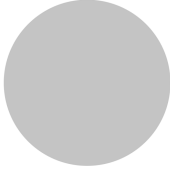Upload media to have it display here!

Upload Media

Title

Media File   Upload   upload videos, portfolios, pdfs

Post

Use Case 2

Edward notices they can request ratings for some of their skills and classes.

About   Log Out

About

Resume

Student Name

Skills

▶

Coursework

Course Name   Request Rating

When requesting a rating for the class they enjoyed and did well in, they leave a message for the professor.

Request Rating For
[Course Name]
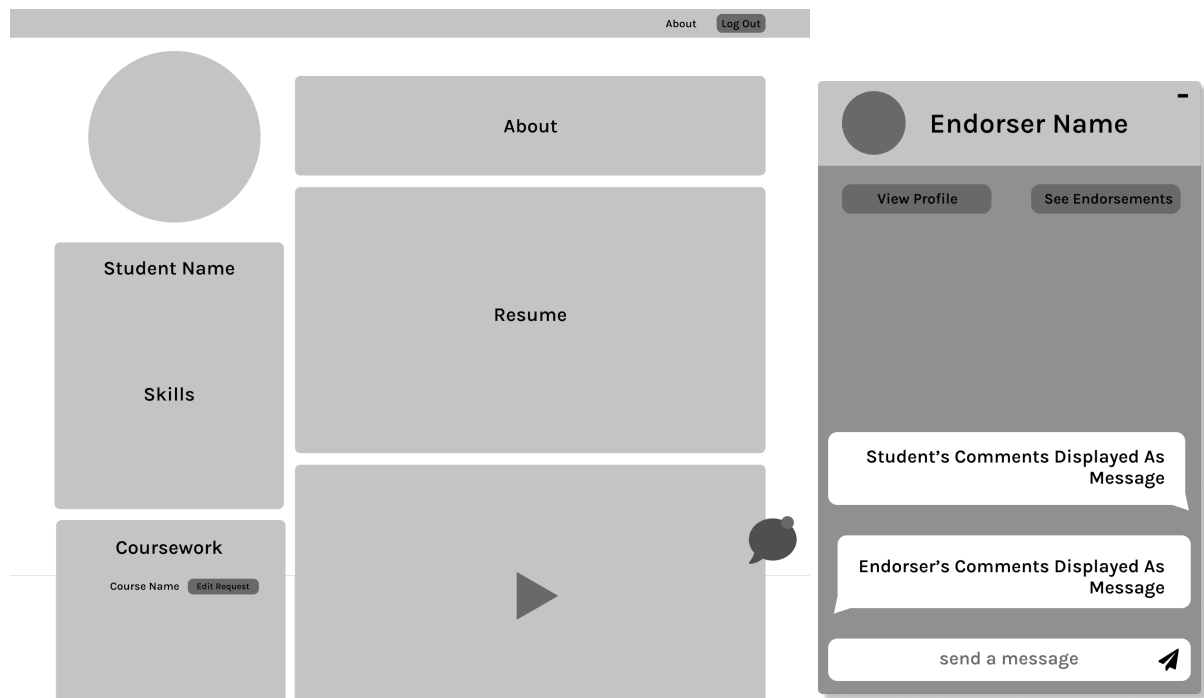
Endorser   endorser name ▼   OR   endorser email
@mail.sfsu.edu

Comments

Request

After walking away for a cup of coffee, they see a notification for a message with the professor and talk to him.

About   Log Out

About

Student Name

Skills

Resume

Coursework

Course Name   Edit Request

▶

Endorser Name

View Profile   See Endorsements

Student's Comments Displayed As Message

Endorser's Comments Displayed As Message

send a message

They are pleased to see a high rating for the course.

Coursework

Course Name ★★★★★
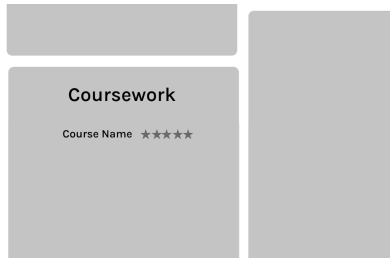
Use Case 3

Stan wants to post an open position in their company. When they are logged in, they fill out a job posting form with required and preferred criteria.

Your Job Postings

Create A Job Posting

Headhunter Name

Company Name

Job Name

Job Information...

View More Info

X

They include the amount of experience, technical skills, and demographics.

About   Log Out

Create A Job Posting

Visible

Title

Type   intern/full-time ▾

Description

Coursework   +

Skills   +

Graduation Date   month ▾   year   to   month ▾   year

Post Job

They receive a notification that a student matches the job post.

About Log Out

Your Job Postings

Create A Job Posting

Headhunter Name

Company Name

Job Name

Job Information...

View More Info

X

Job Name

Job Information...

View More Info

X

Student Name

This student matches your job posting: post name... X

View Profile   See Post

send a message
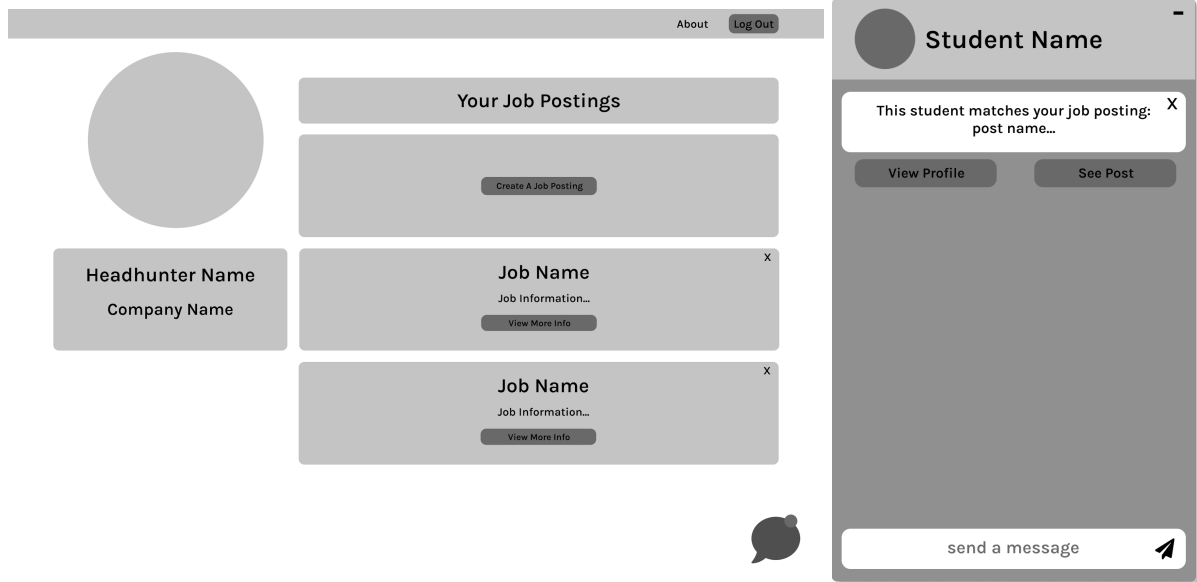
Use Case 4

Robin receives a request to rate a student in one of her classes.

Endorser Name

Department

About

Rating Requests

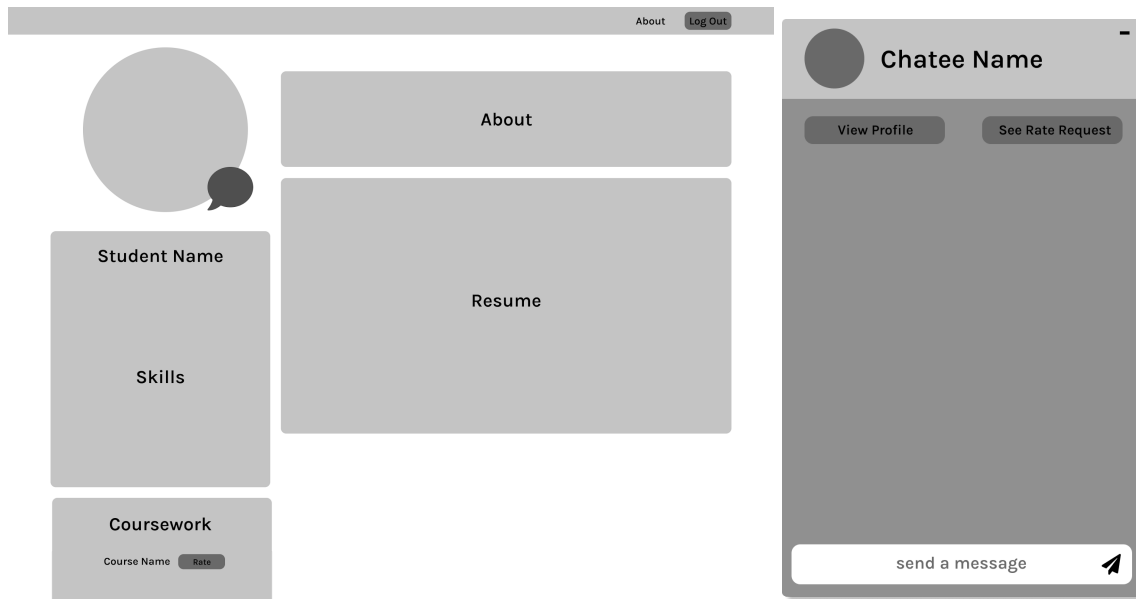| | Student Name | Course Name | Message | Rate |
	Student Name	Skill Name	Message	Rate
	Student Name	Course Name	Message	Rate
	Student Name	Skill Name	Message	Rate

Rate [Course Name] For [Student Name]

Message   Profile

Rating ★★★★★

Comments

Post

She views the student's profile to jog her memory and messages the student.

About   Log Out

About

Resume

Student Name

Skills

Coursework

Course Name   Rate

Chatee Name

View Profile   See Rate Request

send a message

She decides to give the student a glowing rating for the course.

About   Log Out

About

Resume

Student Name

Skills

Coursework

Course Name   ★★★★★ Edit
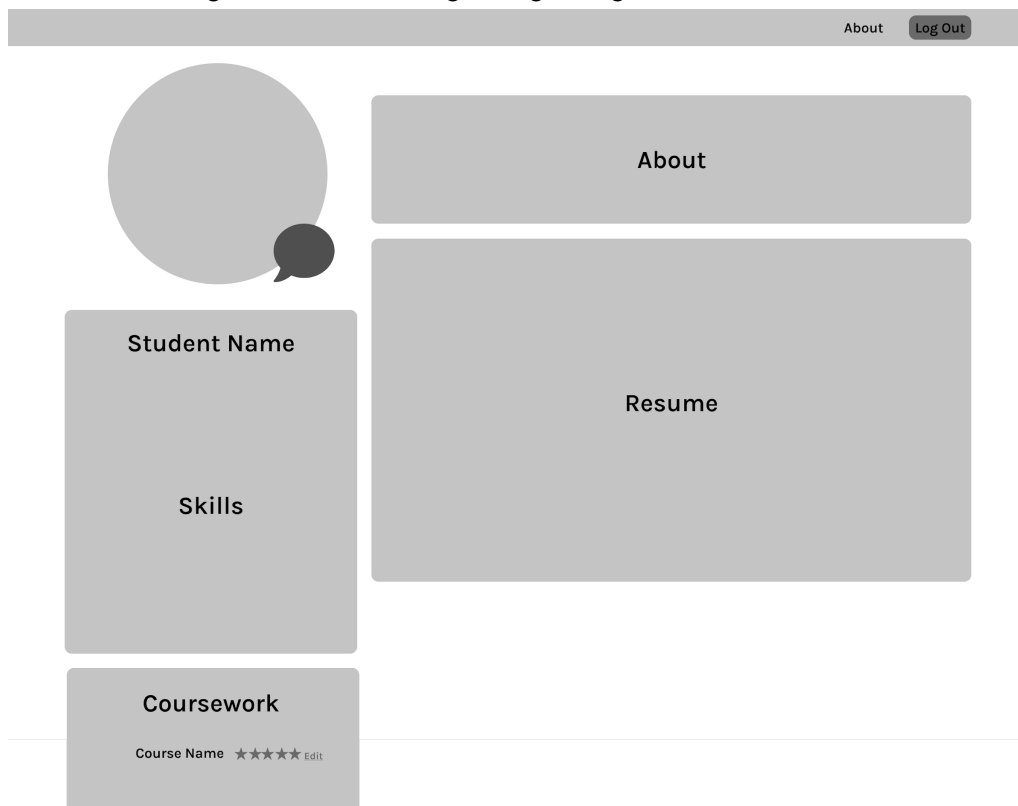
Use Case 5

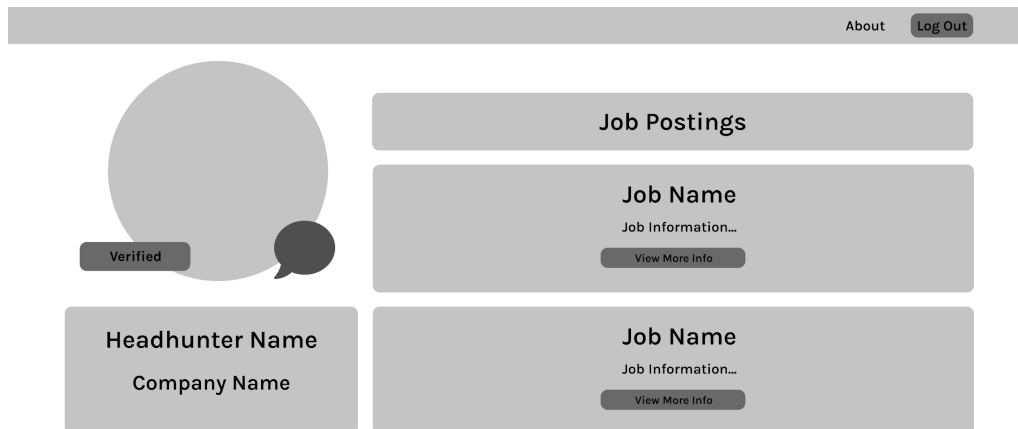Admin consistently receives user account requests from headhunters and endorsers.
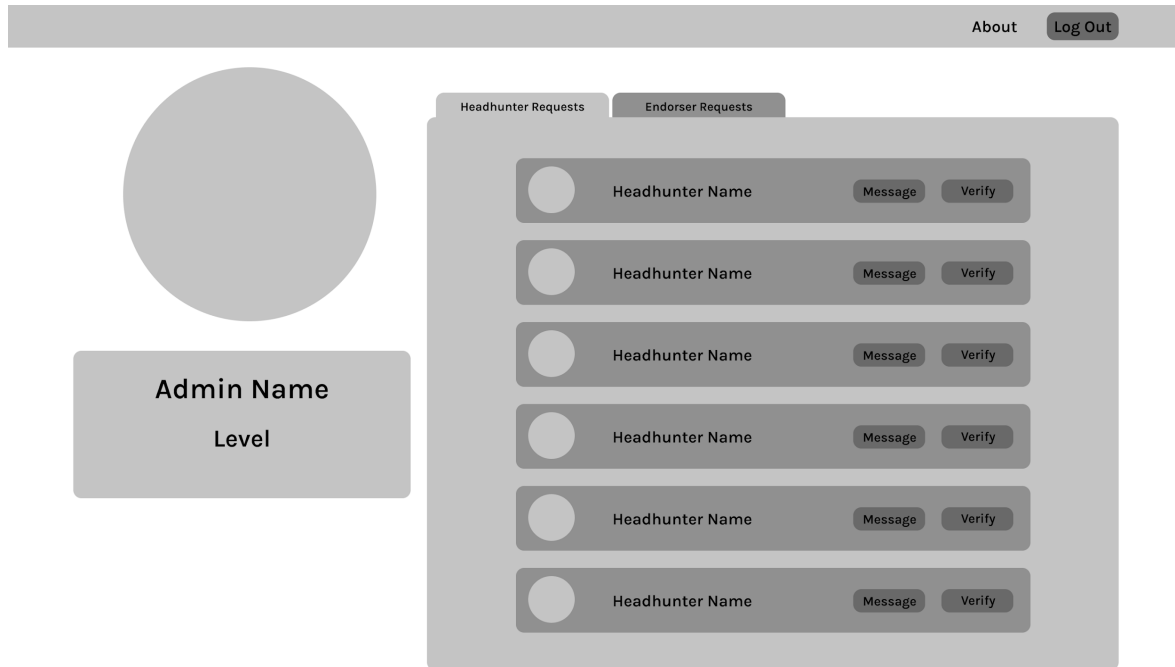
They view a request for a headhunter account.

In order to fulfill these demands, they ensure the legitimacy of their company and job description.

About   Log Out

Job Postings

Job Name
Unverified!
Job Information...
View More Info

Job Name
Unverified!
Job Information...
View More Info

Headhunter Name

Company Name

Verify Request   Reject Request

After verification, the headhunters posts are now visible.

About   Log Out

Job Postings

Job Name
Job Information...
View More Info

Verified

Job Name
Job Information...
View More Info

Headhunter Name

Company Name

3. High-Level Architecture, Database Organization

Database Organization
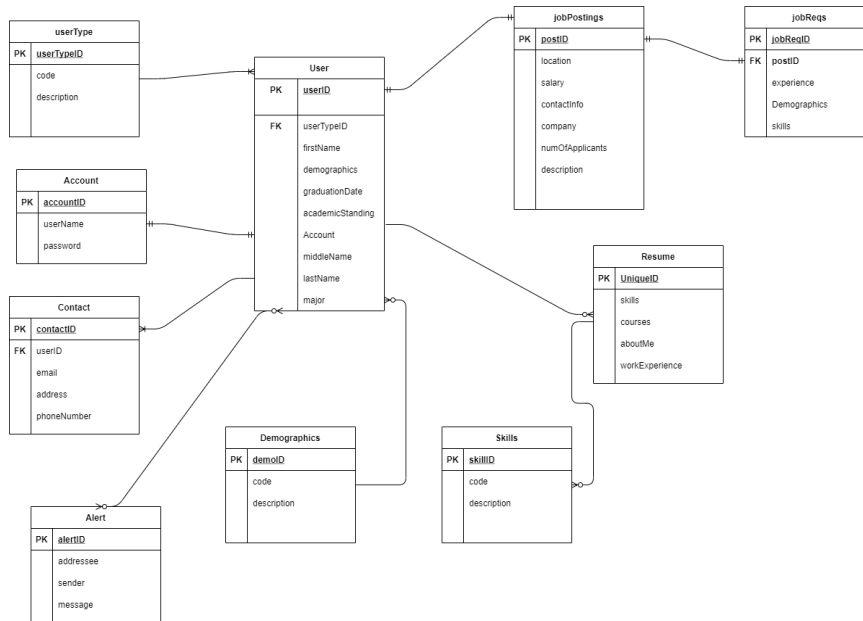
Media Storage: File System
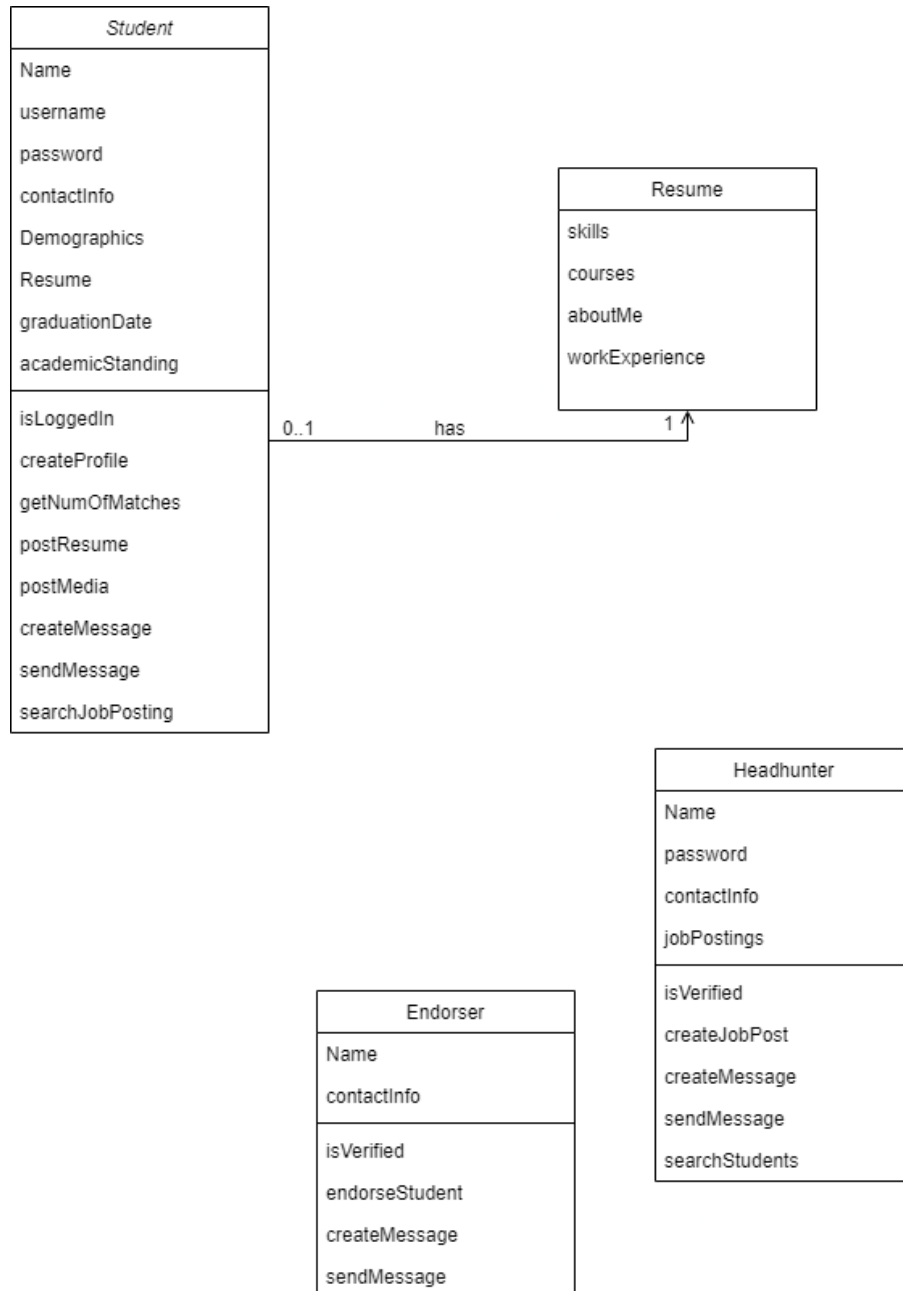Search Filter Architecture & Implementation
Organize Search Items: Database Tables
Searchable Database Terms:
- Name
- Company Name
- Major
- Demographics
- Skills
- Job Posting Descriptions
- Job Posting Requirements

Non-Trivial Algorithm: Ranking

4. High Level UML Diagrams

Student

Name

username

password

contactInfo

Demographics

Resume

graduationDate

academicStanding

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isLoggedIn

createProfile

getNumOfMatches

postResume

postMedia

createMessage

sendMessage

searchJobPosting

Resume

skills

courses

aboutMe

workExperience

0..1 ———— has ———— 1 ↑

Headhunter

Name

password

contactInfo

jobPostings

---

isVerified

createJobPost

createMessage

sendMessage

searchStudents

Endorser

Name

contactInfo

---

isVerified

endorseStudent

createMessage

sendMessage

5. Key Risks

Immediate Risks

The team is devoted and dedicated but have skill gaps that make the curve quite steep. None of the team members has extensive experience (we are beginners at best) with the technology stack that we have chosen. This is not particular to the choice of stack it would be the same even if another stack was the choice. We are generally not experienced in web development.

- Skill - the team has committed to doing what it takes to close our skills gap through individual reading/research and generally improve our familiarity and abilities with the technologies we have chosen.
- Schedule - the schedule is tight and for this, we have committed to meeting twice a week outside of normal class to ensure we meet our deliverables.
- Technical - we have not run into major technical issues yet and we hope to keep it that way.
- Teamwork - our meetings are scheduled to be at a time that is suitable to all team members considering that we are on different continents.
- Legal/Content - we plan on using only free content to avoid any legal entanglement.

6. Project Management

Task Distribution

Create Database tables - Jeffrey
Create controller module - Peter
Create connection module - Peter/Jeffrey
Create page prototypes - Bera/Maria
Configure deployment - Jooyoung

Management

Our team meets weekly regardless of Milestone deadlines. We have been using a Google Doc to stay organized, but recently shifted to a Trello board to split up our tasks. Within the past week our team has been focusing on learning the technologies of our software architecture. We started implementing the Vertical Prototype for our application and learned the complexities and learning curve that will determine our scheduling. We work within our respective teams: back end and front end, and ensure to consolidate our ideas together as a team. We also remain organized through our Slack group chat where we provide each other updates on our current tasks, as well as inform each other of resources that we think may be useful for each other. For future tasks we will ensure to continue using Trello and use checkpoints between milestones to ensure we meet deadlines.