

CPSC 304 Project Cover Page

Milestone #: 3

Date: Mar. 11

Group Number: 57

| Name | Student Number | CS Alias (Userid) | Preferred E-mail Address |
|------------------|----------------|-------------------|--------------------------|
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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

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Project Summary:

Our project involves creating a job application portal where applicants can create a profile, find relevant postings for company roles and submit their applications. The domain of our application is recruiting for employers and job searching for general users. For their recruiting and employment activities, companies can add jobs and relevant postings for open positions. For job searching, users can add profiles, view jobs by their category, required skills and location.

For the database, we will use MySQL, with the programming language of Java. Furthermore, our frontend will be built using ReactJS as the framework, with the programming languages of JavaScript and HTML/CSS.

Task Breakdown:

Frontend tasks:

- Create the user profile page (Arya)
 - Basic information (email, name, phone number, employment history)
 - Upload resume
 - Fill in transcript
- Create the Company Page (Arya)
 - Search bar
 - Mention Industry (add filters)
 - User can rate / comment on companies
 - Open Positions / Hiring Subtab?
- Create the Job listings Page (like linkedin jobs) (Arya)
 - Search bar
 - Basic information (description, salary, ...)
 - Filter by category/skill/company
- Admin should add new or edit users / companies etc.

Backend tasks:

- HTTP Server (Daniel)
 1. Expose API endpoints
- Create the 20 tables based on milestone 2 DDLs (Daniel). Specifically:
 1. Create User table
 2. Create Company table
 3. Create Score table
 4. Create Rates table
 5. Create Industry table
 6. Create OperatesIn table
 7. Create WorkedAt table
 8. Create Recruiter table

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9. Create PostedJob table
 10. Create Category table
 11. Create JobBelongsIn table
 12. Create Skill table
 13. Create JobRequires table
 14. Create UserAppliesTo table
 15. Create Resume table
 16. Create School table
 17. Create Transcript table
 18. Create Course table
 19. Create Grade table
 20. Create TranscriptContains table
- Create insert statements for the 20 relations using JDBC (Daniel)
 - Create select statements for all relations using JDBC (Yeonguk)
 1. Select by PK
 2. Select by other candidate keys
 - Create update statements for all relations using JDBC (Yeonguk)
 - Create delete statements for all relations (Yeonguk)
 - Populate tables with mock data (Daniel)

Integration tasks:

- Make sure frontend can call backend APIs (Daniel)

Gantt chart:

| | Mar-23 | Mar-24 | Mar-25 | Mar-26 | Mar-27 | Mar-28 | Mar-29 | Mar-30 | Mar-31 | Apr-01 | Apr-02 | Apr-03 |
|--|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|--------|--------|
| User Profile Page (Basic Information) | Arya | | | | | | | | | | | |
| User Profile Page (Upload Resume) | Arya | | | | | | | | | | | |
| User Profile Page (Fill in transcript) | Arya | | | | | | | | | | | |
| Company Page (Search Bar) | | | | | Arya | | | | | | | |
| Company Page (User ratings & comments) | | | | | Arya | | | | | | | |
| Company Page (Opened Positions) | | | | | Arya | | | | | | | |
| Company Page (Filter Companies) | | | | | Arya | | | | | | | |
| Job Listings Page (Basic Information) | | | | | | | | | Arya | | | |
| Job Listings Page (Search Bar) | | | | | | | | | Arya | | | |
| Job Listings Page (Filter jobs) | | | | | | | | | Arya | | | |
| HTTP server | | | | | | | | | | Daniel | | |
| Create Tables based on DDLs | Daniel | | | | | | | | | | | |
| Insert statements using JDBC | | Daniel | | | | | | | | | | |
| Select statements using PK | | Yeonguk | | | | | | | | | | |
| Select statements using CK | | Yeonguk | | | | | | | | | | |
| Update statements using JDBC | | | | | Yeonguk | | | | | | | |
| Delete statements using JDBC | | | | | | | | Yeonguk | | | | |
| Populate tables with mock data | | | | | | | | Daniel | | | | |
| Make frontend call backend API | | | | | | | | | | Daniel | | |

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Challenges (backup plan for exceptional situations):

- If a member gets sick or is unable to finish their tasks, another member will take over their tasks
- We will meet at least 3 times every week starting on March 23 to ensure that each member is on track