



BILKENT UNIVERSITY

SPRING 2019 – CS 353 - 02

TERM PROJECT PROPOSAL

GROUP 8

COMPANY INTERVIEW AND EMPLOYMENT REVIEW PLATFORM

Mustafa Bayraktar 21604079

Zeynep Gözel 21602077

Yağız Efe Mertol 21601798

Ege Özcan 21602150

## **Table of Contents**

<b>Introduction</b>	3
<b>Description</b>	3
Why database is going to be a part of the system	3
How database is going to be a part of the system	4
<b>Requirements</b>	4
Functional Requirements	4
Non-functional Requirements	5
Constraints	6
<b>Limitations</b>	6
<b>Conceptual Design</b>	7

## 1. Introduction

In this project, we are going to design a system that is an online platform featuring users and companies. The main goals of this platform are to serve as a place for posting job offerings by companies; for users to be able to gain knowledge of the working environment of a company and also spread knowledge about a company they have worked on earlier. The subjected knowledge about a company consists of reviewers' interview experiences, comments about work experiences, pros and cons of the company, their position and salary information. Also, the reviewer can post with an anonymous identity if wanted. The reviews are only published with the approval of admins and can only be removed by the reviewer or with the approval of admins after a request by the subjected company.

## 2. Description

### a. Why database is going to be a part of the system

As described above, this system will offer many different functions to its users, such as sending and reading comments about experiences, sharing positions and their salaries etc. For these functions, the system must store lots of information about them. The system should group this information as required and use it as needed. Also, when the user changes something, the information should be updated by the system. Therefore, the system must have this database to store and use needed data because there is nothing more efficient than the database in order to perform the functions of the system.

#### b. How database is going to be a part of the system

In this system, almost everything related to information storage and regulation will take place in the database. The information about users such as names, addresses, photos, and types will be stored in the database. The database will detect users as regular users and companies. After the detection, it will provide different functions to each of them. Besides that, information about functions such as reading and writing comments, applying job offers, following companies will be provided by the database. New entries will be stored in the database and the regulations and updates of them will be done with help of queries.

### 3. Requirements

#### a. Functional Requirements

Users should be able to:

- Review companies they worked at.
- Comment about experiences with companies.
- Share feedback about the CEO of their company.
- Share position and salary information.
- Share information about company interview processes.
- Make their comments and posts anonymously.
- Follow companies.

- Ask questions to companies.
- Add a profile photo.
- Search for jobs based on company name, location, salary range, company rating and other criteria.
- Apply to job offerings.
- Add interests.

Companies should be able to:

- Post job offerings.
- Submit requests to remove reviews about the company.
- Post office photos with descriptions.
- View details about applicants.

Admin should be able to:

- Approve or decline review removal requests of companies.
- Delete suspicious comments.
- Suspend user accounts.
- Approve reviews of the users.

#### b. Non-functional Requirements

- Performance: All user inputs should be acknowledged within 0.5 second.
- Performance: RAM usage of the client should be less than %20.
- Usability: The layout of the website should stay the same in different screens with the aspect ratio 16:9

- Concurrency: The server response time should not slow down with up to ten thousand concurrent users.
- Reliability: A server crash or power cut should not result in data loss.
- Security: The data coming into and going out of the server should be encrypted
- Privacy: The data of users should not be visible to third parties.

#### c. Constraints

- We will use MySQL to implement our database.
- For the website we will use HTML, CSS and JavaScript.
- You can reach our reports from this repository:  
<https://github.com/ege0zcan/CS353>

## 4. Limitations

- A user can write at most one review per company.
- A user can update his/her review at most once a month.
- A user cannot publish his/her review without approval of the admins.
- Users cannot access work users' address information.
- A company cannot delete or change any user review.
- Personal data of anonymous writers cannot be seen by other users and companies.
- Each user should have a password and an email address to login.
- Password length should be at least 6 characters and it should contain at least one uppercase letter.
- A user cannot add a comment to reviews.

## 5. Conceptual Design

