

Software Requirements Specification
for
Student's Internship Application

Prepared by EzJobs

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Chapter 1

Introduction

1.1 Purpose

The purpose of this document is to describe the requirement specification for a student's internship application.

The intended audience of this document includes the prospective developers of the tool and the technical assessment personnel of the client organization.

1.2 Scope

The software system to be produced is a Student's Internship Application, which will be referred to as "SIA" thorough this document. Besides the SIA abbreviation, the application will be also known as EzJobs, as a way to enhance the efficiency of the modeled selection process.

The Student's Internship Application will allow both students and recruiters to be involved in a more efficient recruitment process. Students have the possibility to create a profile and, together with their CV, they can apply to jobs posted by recruiters. Meanwhile, recruiters have the possibility to better select students directly from an application, without needing to promote their available positions by different traditional means.

The SIA has an objective to help students in finding their first job by bringing companies closer to them with the help of an application. The aim of SIA is to centralise all available internships positions from different companies and from all domains. Besides, companies will have direct access to students when it comes to introducing them in the working field.

1.3 Definitions, acronyms, and abbreviations

SIA: Student's Internship Application

Framework: a conceptual and technological support structure defined, generally, with specific software artifacts or modules, which can serve as a basis for the organization and development of software.

Database: structured set of data held in a computer, especially one that is accessible in various ways.

1.4 References

IEEE Std. 830-1993: IEEE Recommended Practice for Software Requirements Specifications

1.5 Overview

The rest of this document contains an overall description of the EzJobs application and the specific requirements for the system.

Chapter 2

Overall Description

2.1 Product Perspective

During their academical studies, students work a lot on assimilating theoretical knowledge, however they also come to a point when they need to apply them in real life context. In this respect, students participate to internships that are organised by companies on their field of study. Without a centralised tool to help them find and apply for existing internship positions, the process of finding an internship is long, inefficient and complicated. In other words, the existing of a specialised tool could help students that are looking for internships.

2.1.1 System Interfaces

The SIA systemt to be developed is a web based application that will be available over the internet. It consists of the following components: the client component, or the web application, the server component and the database component (see Figure 2.1).

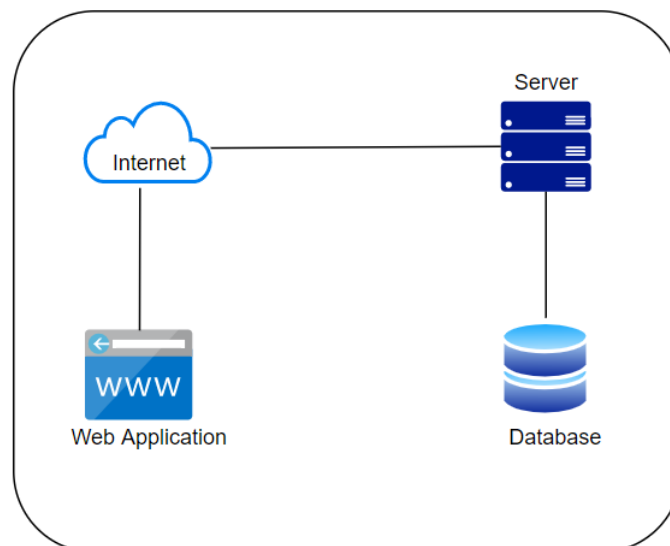


Figure 2.1: EzJobs components

The client module consists of a web application and is the means by which students and companies will interact. The server component handles the requests made by students/companies within the client component. The database component is meant to store the data of the application and it is not dependent on any type of vendor, as long as it is compatible with the server. All components can be hosted on any type of server, however Linux is a recommendation.

2.1.2 User interfaces

The client module must provide a user interface that is available on any major type of internet browsers. The server module does not have a user interface, besides the starting/stopping commands and the same applies for the database component.

2.1.3 Hardware interfaces

The client module should be available on any device with an internet connection, while the other components run remotely on a server.

2.2 Product Functions

The application is dedicated to two main type of users, students and company recruiters, and based on this the EzJobs application is mainly focused on handling the recruitment process for different internships positions from different companies. The process is modeled as follows: companies post available positions, students see available positions (based on their needs), students can apply and recruiters receive student applications.

The application has companies that are registered and uniquely identified by an id (as all entities shall be) and has affiliated information regarding their area of work, description and other information.

Each company can post an internship position where they specify the number of available open positions, description, time period and other significant information.

Students registered on the application by completing information that will build their profile (eg. university, field of study, age, etc...) and can apply to different internship positions with the help of their profile and a CV.

After applying for an internship, companies will contact students by different communication means (eg. email, phone) and in the EzJobs platform students have a status on their application (pending, accepted, refused).

Regarding the database structure of the application, there will be entities for user accounts, companies, students, job openings and job applications. Any other types that will be required in order to model the final product will be added on the process of developing the application. The user account shall store information like username, password and email, while companies will also have an affiliated name, work area, description and other possible details like number of employees, foundation year and so on. In case of students, information like university, studied fields and age should be stored. With respect to the job openings information like description, area and no. of open positions shall be stored.

2.3 User characteristics

Users are organised in two categories: students and companies. Users should be familiar with using a web application that is built for the recruitment process.

Chapter 3

Specific functional requirements

3.1 Client Component

3.1.1 Company users

R1. Create Internship Announcement

"A company user shall be able to create new job announcements."

From its homepage, the company user should be able to click on a button that will redirect the user to a new page where it will be asked to fill in some information required for registering the new job announcement.

In the end, the user can create the announcement by the click of a button, case in which the user will be informed about the status of his/hers operation (success/failed).

R2. List Company Job Announcements

From the homepage, a user should be able to see all the job announcements that were made until for his company.

R3. View Job Announcements

A company user should be able to select a job announcement from the list of created job announcements, case in which it will be redirected to a new page where it will see various information regarding the job announcement.

R4. Edit Job Announcement

A company user that navigated to the profile of a job announcement should be able to modify the job announcement with the help of a click of a button

The page view should change after the click, enabling the user to modify some of the job announcement features (including the visibility of the job)

In the end, the user can save the modifications with the help of a click and is informed of

the operation status (success/failed).

R5. List job applicants

From the job announcement profile, the company user shall be able to see all the applicants for that position.

R6. View job applicant profile

From the list of available participants. A company user should be able, by clicking on a list element, to view the participant profile and attached CV.

When clicking on a list item, the company user will be redirected to a new page containing participant's information and CV.

R7. Solution application

A company user should be able to accept or reject the application of a user.

From the user's application profile, the company users should be able to click a button that will perform the reject/accept operation.

After performing the operation, the company user should be provided with a message regarding the success of the performed operation.

R8. Remove job announcement

From the list of available job announcements, each list item will have a button responsible for the deletion of the job announcement.

R9. Search job announcement

From the home page the company user should be able search a job announcement based on the job announcement name.

The user will be provided with a search bar, where he/she will type the job announcement title and as he type the list of job announcements will be filtered automatically.

R10. View company profile

A user should be able to view the company profile by clicking on a "company profile" button that will redirect the user to a new page from where it will see all the company information

R11. Edit company profile

From the company profile, the company user should be able to edit the profile information.

R12. Give feedback to applicants

When accepting or rejecting an application, the company user should provide the student with some feedback.

3.1.2 Student users**R13. List Job Announcements**

From the homepage, a student should be able to see all the job announcements that were made until now, from various companies.

R14. View Job Announcement

A student user should be able to select a job announcement from the list of job announcements, case in which it will be redirected to a new page where it will see various information regarding the job announcement.

R15. View Company Profile

From the job announcement profile, but not only (also search), the student should be able to view the company profile where it will be provided with company information and available internships.

R16. Search for job announcements

A user should be able to search for job announcements based on company name, job title, field of study and other fields.

R17. Apply for job

From the profile of a job announcement a user should be able to apply for that job. However, a user can not apply for the same position multiple times.

R18. View application status

For the profile of a job where the student has already applied, he/she should see the status of the application: pending, accepted or rejected.

R19. Cancel application

From the profile of an internship where the student applied, he/she should be provided with the option of canceling the job application.

R20. Application feedback

On the profile of internship announcements that the student applied and was processed, a feedback message should be displayed.

R21. Internship recommendation system

The user should be notified on internships that his/hers profile is considered to be a match.

R22. Wish-list for companies

A student user should be able to add companies to his/hers wish-list. The user will be notified when a company from its wish-list posted a new job.

R23. List applications

A student should be able to list all of his/hers applications.

R24. View application

A student should be able to view a selected application. He/she will click on an application item and will be redirected to a new page where all application details will be shown.

3.1.3 Common requirements**R25. Log-In**

When entering the application, the users shall be provided with a log-in page.

The users shall provide their credentials and be able to perform an authentication operation.

If operation is a success, the user will be redirected to their home page (different based on user type: student/company)

R26. Register

If not having an account, users should be able to create an account. They can click on "create new account" button/link and shall be redirected to a registration page.

On the registration page, users shall choose whether they are students or companies and provided the required information for their specific type of user.

R27. Internal messaging system

Users should be able to chat within the application.

R28. Multiple language support

The user should be able to select the language in which the application should be.

Chapter 4

Classification of functional requirements

Requirement	Type
R1. Create Internship Announcement	Essential
R2. List Company Job Announcements	Essential
R3. View Job Announcements	Essential
R4. Edit Job Announcement	Desirable
R5. List job applicants	Essential
R6. View job applicant profile	Essential
R7. Solution application	Desirable
R8. Remove job announcement	Essential
R9. Search job announcement	Desirable
R10. View company profile	Essential
R11. Edit company profile	Desirable
R12. Give feedback to applicants	Optional
R13. List Job Announcements	Essential
R14. View Job Announcement	Essential
R15. View Company Profile	Desirable
R16. Search for job announcements	Desirable
R17. Apply for job	Essential
R18. View application status	Desirable
R19. Cancel application	Optional
R20. Application feedback	Optional
R21. Internship recommendation system	Optional
R22. Wish-list for companies	Optional
R23. List all my applications	Essential
R24. View my application	Essential
R25. Log-In	Essential
R26. Register	Essential
R27. Internal messaging system	Optional
R28. Multiple language support	Desirable

Table 4.1: Classification of functional requirements