

**Software Requirements Specification**  
for  
Student's Internship Application

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# Chapter 1

## Introduction

### 1.1 Purpose

The purpose of this document is to describe the requirement specifications for a Student's Internship Application.

The intended audience of this document includes the 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" in this document.

Recruiters can create a company profile, post internship listings, and manage applications by providing feedback. On the other hand, students can create a profile and, together with their CV, they can apply to internships posted by recruiters. The application also includes a messaging system that allows students and recruiters to communicate with each other.

The objective of this application is to aid students in finding appropriate internships for their needs, by centralizing multiple internship positions from multiple domains of study. Companies will benefit as well by making it easier to go through the list of applicants and accelerate the recruiting process.

### 1.3 Definitions, acronyms, and abbreviations

SIA: Student's Internship Application

### 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 Student's Internship Application software system (chapter 2) and the specific requirements for the system (chapter 3).

## Chapter 2

# Overall Description

### 2.1 Product Perspective

The proposed platform is envisioned as a comprehensive solution bridging the gap between academic learning and practical application in the workforce. Students, during their studies, accumulate a lot of theoretical knowledge and skills. However, the transition from classroom learning to real-world application often presents a significant challenge, primarily due to the lack of accessible, organized channels for securing relevant internships.

This platform aims to simplify and streamline the process of finding and applying for internships, tailored to students' specific fields of study and interests. By offering a centralized repository of internship opportunities, complete with tools for easy searching, filtering, and application, the platform not only enhances the efficiency of the internship hunt but also ensures a better alignment between students' academic pursuits and practical work experiences.

#### 2.1.1 System Interfaces

The SIA system under development is an internet-based web application. It comprises three main components: the client component, also known as the web application, the server component, and the database component.

The client module is a web application that facilitates interaction between students and companies. The server component processes the requests made by students and company recruiters through the client module. The database component is responsible for storing the application's data.

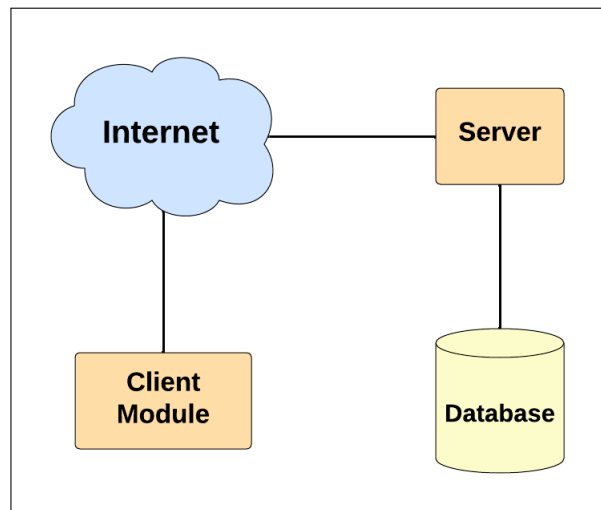


Figure 2.1: Architectural Diagram for Student's Internship Application.

### 2.1.2 User Interfaces

The Client Module shall provide a user interface that is available on all major internet browsers. The Server Module does not have a user interface except for the commands necessary to start and stop it. The Database Module does not have a user interface.

### 2.1.3 Hardware Interfaces

The Client Module shall be available on any device with an internet connection. The other components shall run remotely on a server.

## 2.2 Product Functions

The application serves primarily two user groups: students and company recruiters. Its primary function is managing the recruitment process for various internship roles offered by different companies. The workflow is straightforward: companies advertise available internships, students browse these opportunities based on their preferences, and they can then apply. Recruiters then receive these applications and proceed with the recruitment process within the platform. Within the application, companies provide information related to their work area, company description, and other relevant details. Companies can list internship positions, detailing aspects like the number of available spots, job description, duration, and other important criteria.

Students join the application by creating an account. Further they can create a profile, containing information, such as their university, field of study, age, etc. This profile, along with a CV and/or a cover letter, assists them in applying for various internships. The students have a lot of resources to help them prepare for the internship application. Once a student applies for a position, companies can reach out to them through various communication channels like email or phone. Within the platform, each application is marked with a status indicating whether it's received, under review, accepted, or rejected. Recipients of these applications also receive feedback through the platform.

The application's database architecture will include entities for user accounts, companies, students, internship listings, and applications. Additional entity types needed to effectively model the final product will be incorporated during the development process. User accounts will store credentials and email addresses, while company records will include names, areas of operation, descriptions, and possibly other details like employee

count and year of establishment. Student records will capture details like university, field of study, and age. Internship listings will include information such as descriptions, fields, and the number of available positions.

## 2.3 User Classes and Characteristics

There will be two types of users: students and companies. The users are expected to possess prior experience in utilizing applications for recruitment processes, but no technical background.

## 2.4 General Constraints

The system should enforce authentication security. The application should also work properly even for higher workloads. The application should be fast and responsive (response to a request should take no longer than 2 seconds). The application should be scalable, allowing for the addition of new features and user growth. The application must comply with data protection laws (GDPR), including clear privacy policies and user consent for data collection and processing.

## 2.5 Assumptions and Dependencies

No specific assumption or dependencies.

## Chapter 3

# Specific Functional Requirements

### 3.1 Client Module

#### 3.1.1 Company Client Module

##### **R1. Create Internship Announcement**

A company user shall be able to create new internship announcements. The details provided for an internship announcement should be:

- Job Title - Mandatory
- Job Description - Mandatory
- Position - Mandatory
- Qualifications and Requirements - Mandatory
- Duration - Mandatory
- Schedule - Mandatory
- Location - (remote / hybrid / on-site - case in which it is required to provide also city, state, country) - Mandatory
- Number of available positions - Mandatory
- Salary - Mandatory
- Application Process - Mandatory
- Application Deadline - Mandatory
- Additional Benefits and Compensation (if applicable) - Not Mandatory

Once all mandatory information has been entered, the company user shall be able to create the announcement. Then, a notification will indicate the success or failure of the operation.

##### **R2. List Internship Announcements**

A company user shall be able to view all the internship announcements that have been created for their company.

##### **R3. View Internship Announcement**



A company user shall be able to select an internship announcement from their list of announcements. Upon selection, the system should display all details regarding the chosen internship.

#### **R4. Edit Internship Announcement**

A company user shall be able to modify the details of an internship announcement from their company and save the changes. The system should notify the company user about the success or failure of the operation.

#### **R5. Delete Internship Announcement**

A company user shall be able to delete an internship announcement. Upon selecting the internship to be deleted, a dialogue window should appear, showing a confirmation message that asks the company user if they are sure they want to delete it. After agreeing to delete the internship announcement, the company user should then be notified of the success or failure of the operation.

#### **R6. List Internship Applications**

From an internship announcement, the company user shall be able to view all the applications for that position.

#### **R7. Filter Internship Applications**

A company user should be able to filter internship applications based on specific skills.

#### **R8. View Internship Application**

A company user shall be able to select an internship application from the list of applications. Upon selection, the system should display all details regarding the application. The user should have the possibility to go back to the list of applications.

#### **R9. Solution Application**

A company user should be able to update the status of an application. The status can be: received, under review, accepted, or rejected. If the status of the application is changed to accepted or rejected, the company user should provide feedback about the decision.

#### **R10. Create Company Profile**

A company user should be able to create the company profile. The details provided for the company profile should be:

- Company Name - Mandatory
- Company Description - Mandatory
- Industry - Mandatory
- Location - Mandatory
- Website - Not Mandatory
- Social Media Links - Not Mandatory
- Company Size - Not Mandatory
- Is Active - Mandatory
- Mission Statement/Vision - Not Mandatory

Upon the creation of the profile, the user will be notified about the success or the failure of the operation.

#### **R11. View Company Profile**

A company user should have access to view the company profile. Upon accessing it, the user can view all the provided company details, including ratings and reviews from students who have applied to the company's internships.

## **R12. Edit Company Profile**

From the company profile, the user should be able to edit the profile information. The system should notify the company user about the success or failure of the operation.

### **3.1.2 Student Client Module**

## **R13. Create Applicant Profile**

The student shall be able to create a profile. The aim of this profile is to communicate the skills and interests of a student to potential employers. The screen should contain the following details:

- **Personal Information:**

- Profile Picture - Not Mandatory
- Full Name - Mandatory
- Email - Mandatory
- Phone Number - Mandatory
- Age - Mandatory
- Location (city, state, country) - Not Mandatory
- LinkedIn Profile or/ and Personal Website (if applicable)

- **Educational Background:**

- Current Institution (university/college name) - Mandatory
- Degree or Program of Study - Mandatory
- Expected Graduation Date - Mandatory
- Relevant Coursework - Mandatory
- GPA (if favorable) - Not Mandatory

- **Work Experience:**

- Past internships or job experiences (include company name, role/title, and duration) - Not Mandatory
- Brief descriptions of responsibilities and achievements - Not Mandatory

- **Skills:**

- Relevant skills - Mandatory
- Soft skills (e.g., communication, teamwork, problem-solving) - Not Mandatory

- **Projects and Portfolio:**

- Academic, personal, or group projects - Not Mandatory
- Links to online portfolio or project websites, if applicable

- **Achievements and Awards:**

- Academic honors, scholarships, or other recognitions - Not Mandatory

- **Extracurricular Activities:**

- Involvement in clubs, organizations, sports, or volunteer work - Not Mandatory
- Leadership roles or significant contributions - Not Mandatory

- **Languages:**

- Fluency in foreign languages - Not Mandatory
- **Career Objectives:**
  - Brief statement or summary about career aspirations and goals for the internship - Mandatory
- **References:**
  - Names and contact information of academic or professional references - Not Mandatory
- **Optional Personal Section:**
  - Hobbies, interests, or other personal insights - Not Mandatory

Only the Mandatory items need to be completed in order to create the profile, but the option to complete the others is also shown. The system should notify the user about the success or failure of the operation. Ideally, each section should have a small tooltip with pieces of advice for completing that item.

#### **R14. Edit Applicant Profile**

A student user shall be able to modify all details of their profile and save the changes. The system should notify the user about the success or failure of the operation.

#### **R15. List Company Profiles**

The student should have access to a list of company profiles available. The list shall provide essential information about each company, mainly name, industry, number of available internships, and a description.

#### **R16. View Company Profile**

Students should be able to view detailed information about a company by accessing its profile from the list. When clicking on a company from the list, more details about the company are shown. The user should have the possibility to go back to the list of companies.

#### **R17. Wish-list for Companies**

Students should be able to add companies to a personalized wish-list. This feature shall facilitate easy access to preferred companies for future reference. This list should be editable, with add and delete operations. The list should prioritize the jobs that match the student's profile.

#### **R18. List Internship Announcements**

The application shall provide a list of current internship announcements from various companies. Each announcement in the list should include key details such as position, duration, and requirements.

#### **R19. View Internship Announcement**

Students shall be able to view detailed information about each internship announcement. This includes role description, qualifications needed, the application process, deadlines, and salaries. The user should have the possibility to go back to the list of internship announcements.

#### **R20. Filter Internship Announcements**

The application should provide filtering options for internship announcements based on criteria such as location, industry, duration, salary, and requirements. The student user should be able to add more filters for a search.

#### **R21. Wish-list for Internship Announcements**

Students should be able to add specific internship announcements to their wish-list for easy tracking. This list should be editable, with add and delete operations. The student should be notified when an internship from the list has less than 5 available places.

#### **R22. Search for Internship Announcements**

Students should have the ability to search for internship announcements using keywords, company name, position, job title, duration, location, application deadline, and qualifications. From a search bar, a user should be able to type anything and see the internships whose title, description, or duration matches.

**R23. Apply for Internship**

The sections shall contain suggestions for building a strong CV, cover letter and maximizing the chances of a successful application. Students shall be able to apply for internships directly through the platform. The application process requires submitting all the documents required by the company. The following input fields: CV, cover letter (with both options to type it there or to upload it), and an "Other" field, which allows students to both type and upload documents. The only formats accepted for the documents are: .pdf, .doc, .docx, .txt, .png, .jpg, .zip.

**R24. View Application**

Students should be able to view detailed information about each application they have submitted. Students should be able to view the status of their internship applications (received, under review, accepted, or rejected). When the status is accepted or rejected, students should be able to view feedback or comments on their applications, if provided by the employers.

**R25. List Applications**

The application shall provide a list of all applications submitted by the student, including their current status.

**R26. Give Feedback**

Students shall be able to provide feedback about their experiences with the platform, internships, and companies. The students can provide feedback for a company when they have an application for that company which has a status of rejected or accepted.

**3.1.3 General Client Module****R27. Register**

Users shall have the ability to register for an account in the platform. The registration process shall require essential information such as name, email, and password. The application shall provide options for account verification, such as email or phone verification. This step should include a question about the role of the user if it is a student or the representative of a company.

**R28. Log-In**

Registered users shall be able to log in to their account using their credentials.

**R29. Forgot my password**

Users who forgot their password shall be able to recover or reset it.

**R30. Internal Messaging System**

The application should provide an internal messaging system for users to communicate. This system should allow for direct messages between students and companies. Features may include the ability to send, receive, and organize messages, and possibly attach files.

**R31. Chat-Bot**

The application should feature a chat-bot for assisting users with common queries and guidance. The chat-bot should be capable of handling inquiries like navigating the application, troubleshooting, giving advice for CV building, and providing information about the application process. The chat-bot should also be able to redirect users to human support if it cannot resolve a query.

**R32. Delete profile**

The students shall be able to delete their account and all the records associated with it. Company users should be able to set that the company is no longer active. The system should notify the user about the success or failure of the operation.

## Chapter 4

# Classification of Functional Requirements

| Requirement                                 | Type      |
|---|-----------|
| R1. Create Internship Announcement          | Essential |
| R2. List Internship Announcements           | Essential |
| R3. View Internship Announcement            | Essential |
| R4. Edit Internship Announcement            | Essential |
| R5. Delete Internship Announcement          | Essential |
| R6. List Internship Applications            | Essential |
| R7. Filter Internship Applications          | Desirable |
| R8. View Internship Application             | Essential |
| R9. Solution Application                    | Desirable |
| R10. Create Company Profile                 | Desirable |
| R11. View Company Profile                   | Desirable |
| R12. Edit Company Profile                   | Desirable |
| R13. Create Applicant Profile               | Essential |
| R14. Edit Applicant Profile                 | Essential |
| R15. List Company Profiles                  | Desirable |
| R16. View Company Profile                   | Desirable |
| R17. Wish-list for Companies                | Optional  |
| R18. List Internship Announcements          | Essential |
| R19. View Internship Announcement           | Essential |
| R20. Filter Internship Announcements        | Desirable |
| R21. Wish-list for Internship Announcements | Optional  |
| R22. Search for Internship Announcements    | Desirable |
| R23. Apply for Internship                   | Essential |
| R24. View Application                       | Desirable |
| R25. List Applications                      | Desirable |
| R26. Give Feedback                          | Optional  |
| R27. Register                               | Essential |
| R28. Log-In                                 | Essential |
| R29. Forgot Password                        | Essential |
| R30. Internal Messaging System              | Optional  |
| R31. Chat-Bot                               | Optional  |
| R32. Delete Profile                         | Essential |

Table 4.1: Classification of functional requirement