

Assignment №1

Project Title: Resume Builder Application

1. Introduction

The Java resume builder for desktop is designed to help users create professional-looking resumes. The resume builder application is considered a tool whose main purpose is to create a document quickly and easily. The app has a step-by-step process for creating a resume. Ultimately, the app will have a user-friendly interface that guides users through the entire CV creation process. In addition, users will be able to choose from ready-made templates.

1.1 Purpose

The application should be designed to save time and effort for job seekers, who can use it to quickly create well-formatted resumes that showcase their skills and qualifications.

1.2 Intended Audience

Anyone looking to create a professional-looking resume quickly and efficiently:

- Job seekers: include recent graduates, entry-level professionals, mid-career professionals, and even senior executives;
- Individuals who may need to update their resume frequently: students, freelancers, contractors, or consultants;
- HR professionals: career coaches, recruiters.

1.3 Intended Use

Users of the application would be given tools and templates to enter their personal information, professional experience, education, skill set, and other pertinent information in a systematic fashion. The application aims to streamline and expedite the resume-writing process, enabling job searchers to stand out in a congested job market and land their ideal position.

1.4 Product Scope

1. The system is a window application;
2. The system has an interface that guides users through the resume-building process;
3. The system has key buttons in the main window: "close", "next", "create pdf" ...;
4. The system has the choice of adding and editing sections such as: personal information, work experience, education, skills;
5. The system allows customization options: users are able to customize their resume by adding their images and other visual elements;
6. The system has a project saving option;
7. The system should allow the option to preview and export the completed resume in various file formats, such as PDF or MS Word;
8. The system has a variety of visually appealing and easy to read resume templates are offered in the application;
9. The system has the feature to show website and email addresses as a link or simply keep them as text.

2. User Needs

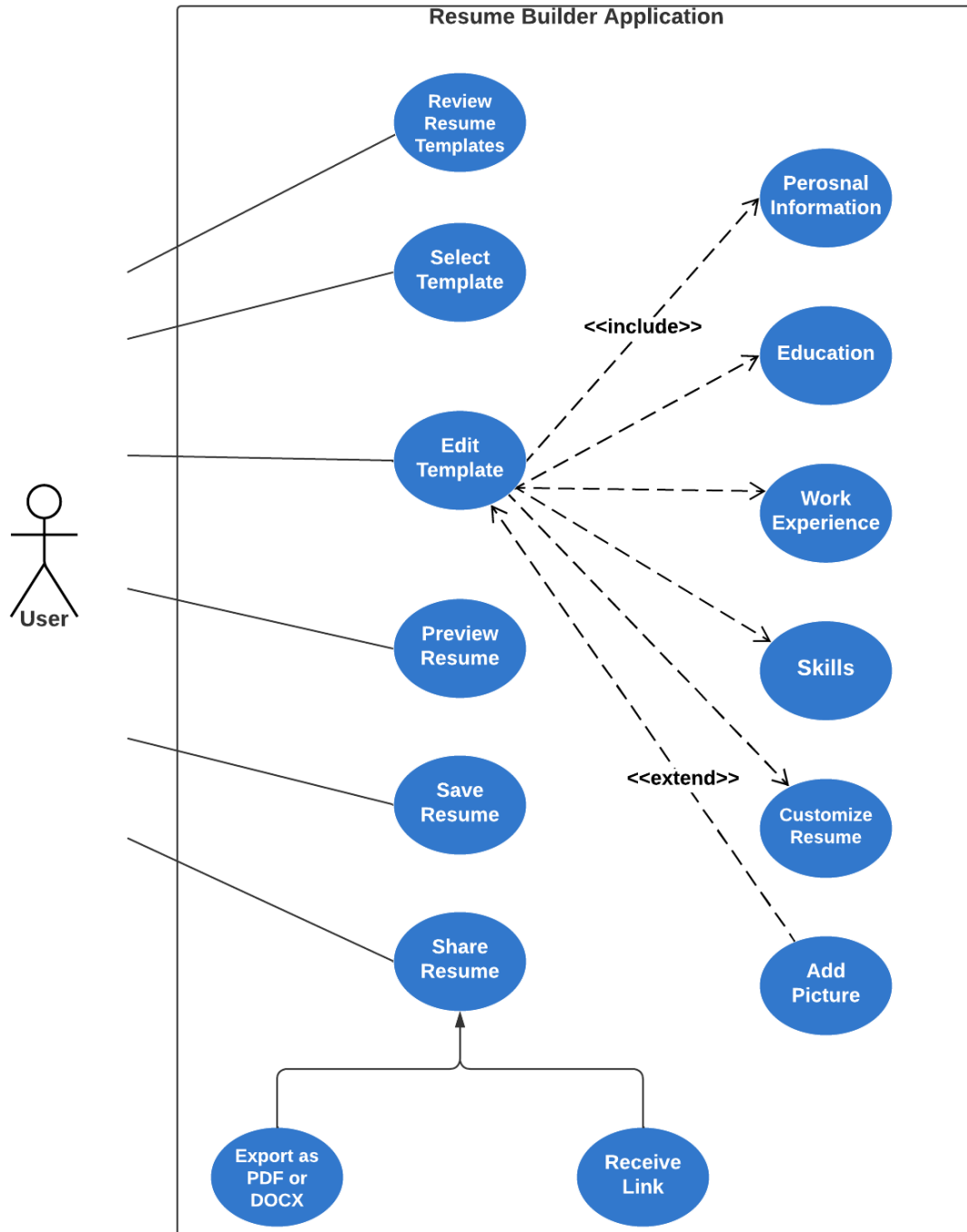
- Interface that is simple to use: The application should have a straightforward, understandable interface. Users should have no difficulty entering their data and customizing their resumes.
- Professional-looking resumes: The program needs to assist users in constructing a document that is properly formatted and pleasing to the eye.
- Compatibility with different file formats: The application should allow users to export their resume in different file formats, such as PDF and MS Word.

3. System Features and Requirements

3.1 Functional Requirements

1. **Personal information input:** The application should provide users with a structured input form to enter their personal information, such as name, address, phone number, and email address.
2. **Work experience input:** The application should allow users to input their work experience, including job titles, company names, job descriptions, and dates of employment.
3. **Education input:** The application should provide a form for users to input their educational background, including degrees earned, certifications, and courses completed.
4. **Skills input:** The application should allow users to input their skills, including hard and soft skills, language proficiency, and other relevant skills.
5. **Resume customization options:** The application should provide users with different templates, fonts, colors, and layouts to customize their resume to their liking.
6. **Resume preview and editing capabilities:** The application should allow users to preview their resume and make edits or updates as needed.
7. **Exporting and saving resume in different file formats:** The application should allow users to save and export their resume in different file formats, such as PDF and MS Word

Group C - Use Case Diagram



3.2 System Features

What to implement first?

First of all, a user-friendly environment should be considered. For this reason, an interface should be considered to guide users through the resume-building process, which is the main structure of the program. After that, implementing sections and fields can take place.

What features might be easy?

An interface that guides users through the resume-building process: it can be implemented using Java Swing, which is easier to learn compared to JavaFX, which has more advanced features.

Sections including work experience, education, skills, and certifications:

In this step, the implementation of functionality for writing sections of a resume by users takes place. The user's data written in the fields can be stored in memory using Java objects or a database.

Resume templates: different templates can be designed for this project with an appealing visual design made with HTML, CSS, or any other possible tool, but because the projects are made with Java, there is no emphasis on this feature and its graphical features.

Also, the project saving option and key buttons of the main window can be implemented using Java Swing, and it can be considered an easy task.

What features might be difficult?

Customization options: Adding a photo to a resume can be done with different Java libraries.

Preview and export resumes to different file formats: previewing can be done with Java Swing, and exporting is possible with different Java libraries like Apache PDFBox to convert data entered by the user to desired file formats.