

Software Requirements Specification
for
(Resume Builder)

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Problem Statement

While building a resume with traditional tools, users may:

1. Take the predicament of how and what to write.
2. Take a lot of time to organize and modify fully.
3. Build an unorganized cv file or inappropriate format.

Based on these drawbacks, we decided to build an improved software system that works on getting rid of them.

Revision history

Version	Primary Author	Description of Version	Date Completed
1.0	Golden Dawn Team	Creating project proposal and initial ERD	11 / 10 / 2022
1.1	Golden Dawn Team	Creating an initial draft of SRS and a paper copy of the UML diagram	30 / 10 / 2022
2.0	Golden Dawn Team	Writing the overall description in the SRS.	1 / 11 / 2022
2.1	Golden Dawn Team	Mapping the rational model from the ER diagram.	4 / 11 / 2022
2.2	Golden Dawn Team	Writing the System Features	10 / 11 / 2022
3.0	Golden Dawn Team	Designing the activity diagrams	10 / 12 / 2022
3.1	Golden Dawn Team	Designing use case diagrams	11 / 12 / 2022
3.2	Golden Dawn Team	Creating UML diagram	18 / 12 / 2022

1. Introduction

1.1 Purpose

An SRS forms the basis of an organization's entire project. It sets out the framework that all the development teams will follow. It provides critical information to all the teams, including development, and operations.

Using the SRS helps an enterprise confirm that the requirements are fulfilled and helps business leaders make decisions about the lifecycle of their product,

In addition, writing an SRS can help developers reduce the time and effort necessary to meet their goals as well as save money on the cost of development

1.2 Scope of the project

Our software product will provide short, simple, with the latest work experience, and constantly updated resumes which is Resume Builder App

Users will:

1. Create a personal account with the platform.
2. Explore examples of resumes that relate to the user's major or job.
3. Contact expertise in resume writing to benefit from their experiences.
4. Choose the desired template
5. Enter their information according to the sections which are personal information, education, experience, skills, and attachments (projects, certificates, and others).
6. Choose the chosen format for each section.
7. Save or download their work.

This application has many pros that make it better than traditional tools.

1- Time saver

Preparing a resume goes beyond listing your education, work experience, and skills. You also need a layout that stands out. With a resume builder, the software creates the layout and format. All you need to do is add your credentials.

2- User-friendly

Resume builders have vibrant, eye-catching, customizable templates, and they come with various layouts.

3- Easy to create and update

Users can create sub-versions of it for different job applications, using different templates or themes, and adding only the skills relevant to the job they are applying for. You can also change the layout by just choosing a different template using the information you already put into the builder.

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1.3 Definitions, Acronyms, and Abbreviations.

SRS: - Software Requirements Specifications

SDLC: - Software Development Life Cycle

AGILE: - Advanced Generation of Interoperability for Law Enforcement

UML: - Unified Modeling Language

DBMS: - Database Management System

ERD: - Entity Relationship Diagram

API: - Application Programming Interface

XP: - Extreme Programming

CV: - Curriculum Vitae

1.4 Intended Audience and Reading Suggestions

The intended audience who will read this SRS and use this application are:

1. Developers
2. Testers
3. Designers
4. Project manager
5. Documentation writer
6. Users
7. Experts

1.5 Process Model

In software engineering, a software process model divides software development work into distinct phases to improve design, product management, and project management. It is also known as a software development life cycle.

The goal of a software process model is to provide guidance for controlling and coordinating the tasks to achieve the end product and objectives as effectively as possible. There are many kinds of process models for meeting different requirements. For this project, we selected the Agile process model to work on.

“Agile process model” refers to a software development approach based on iterative development. Agile methods break tasks into smaller iterations, or parts do long-termly involve long-term planning. The project scope and requirements are laid down at the

beginning of the development process. Plans regarding the number of items, ratios, duration, and the scope of each iteration are clearly defined in advance.

We had chosen it because in the agile:

- ✓ Each iteration is considered as a short time "frame" in the Agile process model, which typically lasts from one to four weeks, so we could easily get an app version.
- ✓ The division of the entire project into smaller parts helps to minimize the project risk and to reduce the overall project delivery time requirements.
- ✓ Each iteration involves a team working through a full software development life cycle including planning, requirements analysis, design, coding, and testing before a working product is demonstrated to the client. It leads us to reach a good system.
- ✓ That would help users of this Resume Builder App who can manipulate the resume sections and add and edit features.

1.6 stakeholders

- Internal stakeholders:
 1. Project manager
 2. Project team (Software engineers/ developers/ testers/ designers/ database administrator)
 3. Product admin
- External stakeholders:
 1. External users (students/ graduates)
 2. Experts in resume writing

1.7 Overview

We suppose that, in the coming sections, we are going to talk about the following: -

- ✓ Overall Description
- ✓ Product Features
- ✓ Operating Environment
- ✓ Design and Implementation Constraints
- ✓ System Features
- ✓ Functional Requirements

2. Overall Description

2.1 Product Perspective

This is a replacement software product. It will be an independent mobile application.

Many other cv builder tools were found but with some drawbacks such as: -

- Leak of variety
- Leak of efficiency
- Could not get the desired help

These drawbacks encouraged us to develop a new software tool that overcome most of them: -

- user can easily choose the desired template he wants
- there are a variety of examples divided into categories
- user can connect with an expert to help him make a professional resume

2.2 Product Functions

The resume builder app will have the following functionalities:

➤ **Registration**

- **Creating an account**
- **Signing in to an existing account**

➤ **Apply as an expert**

- Experts apply within the app, and we contact them to ensure their qualifications, then the admin can accept them.
- Accept, decline, or pend users' requests
- Chat with the user

➤ **Apply as a user**

- **Exploring examples**
 - Finding examples of resumes related to the major or the job.
- **Choosing template**
 - Choosing one of two templates
 - Choosing the preferred color for the chosen template
- **Filling out the resume sections**
 - Reading what is explained in the description box for each section andfilling it out.

- **Contacting expertise**
 - Getting in touch with experts in resume writing to help make a professional one.
- **Uploading or downloading the resume**
- **Editing or creating another saved resumes**

2.3 User Classes and Characteristics

Admin

Admin has full access to the system, manages all activities, and is the highest privileged user.

Key functions

- Access and modify users' resumes
- Add and edit users
- Add and modify templates

End User

The user is anyone who is going to deal with the app. Could be a student, a graduate, or an enterprise. They have access only to their records and could edit only their own. He can navigate within any available category.

Key functions

- Choose category
- Select template
- Edit Template
- Accept editing
- Save resume
- Upload resume

Experts

People who can help you make a professional resume.

Key functions

- Apply as an expertise
- Log in
- Accept request
- Edit resume

Operating Environment

Software Requirement: -

- Windows 10
- Android device

Hardware Requirement: -

- Core i7 Processor
- 8GB Ram
- 20GB storage

Server Requirements: -

- Dual-Core 2 Ghz or higher.
- GB RAM.
- 1 GB free disk space.
- Windows 10, 8, 7, Vista (Ultimate or Business)
- Microsoft SQL Server
- IIS versions 7+

2.4 Design and Implementation Constraints

Implementation language restrictions

- The programming language should be MySQL for the database
- The programming language used for logic should be java
- Using java swing for implementation

APIs

- We are going to allocate data on a server so using APIs such as login and register
- APIs use real-time accurate data (used in the chatting between user and expert)
- APIs for testing the Android app

Resource limits

- The users' device should have a working data plan or wifi connection to use some features
- Reliability, security, dependability and efficiency of the database
- Needs to be compatible on most devices

2.5 User Documentation

- The software app will include an info slider explaining the features each user will be able to access. Each feature will come with its instructions. The tutorial will include screenshots for logging in and using features. This tutorial will provide a simple yet effective way to learn the software.
- All source code will be heavily documented and exported to GitHub account of theResume Builder App. ensuring that it will be able to be reused by developers in the future. Depending on the language used, a document will be exported detailing each class and variable to give more ease to future developers.

2.6 Assumptions and Dependencies

Assumptions

- ✓ The user will not log in to resume builder software without having registered before and has already set an email and password
- ✓ User will use a computer or mobile phone to fill in information
- ✓ To view data, the user needs to connect to Wi-Fi

Dependencies

- ✓ Wi-Fi access
- ✓ Devices used
- ✓ Security of database
- ✓ Accuracy of different APIs

3. System Features

3.1 Functional Requirements

1. [RB001] Admin shall manage all user accounts (add/ delete/ edit)

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	via system test

2. [RB003] Admin can manage all resumes

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	via system test

3. [RB004] Experts shall sign up for the application

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Testing account

4. [RB005] Experts can accept, decline, or pend requests from users

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By demo user via system test

5. [RB006] Users shall sign up for the application

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Testing account

6. [RB007] Users can search for resumes

Source	Client
Priority	Optional
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Using unit testing by tester

7. [RB008] Users can create and edit resumes

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Using unit testing by tester

8. [RB009] Users can send requests to the experts

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By demo user via system test

9. [RB010] Users can upload or download resumes

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By simulation and system test

3.2Non-Functional Requirements

1. [RB101] The system delivers the search items within 2 seconds

Source	Client
Priority	optional
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Using unit testing by tester

2. [RB102] The system shall operate using Windows 10 or Android device

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Simulation and system test

3. [RB103] The system shall be easy to use by anyone using two main languages Arabic and English

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By user via system test

4. [RB104] The system shall, on average, operate without failure for 30 days

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Via system test

5. [RB105] The system shall respond to the users' requests within 2 seconds

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Via system test

6. [RB106] The search results should appear within 5 seconds

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	Via system and function test

7. [RB107] The app could contain 2 main view modes (light and dark)

Source	Client
Priority	Optional
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By system testing

8. [RB108] The app should conserve the battery life

Source	Team members
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By system test

9. [RB109] The system must be able to distinguish between authorized and unauthorized access

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By a fake user and tester via system test

10. [RB110] The design of the app should not use more than three color

Source	Client
Priority	Optional
Release	1
Review Status	Accepted
Verifiable	No
Verification	Non

11. [RB111] The language used in the interface should be formal and polite

Source	Client
Priority	Mandatory
Release	1
Review Status	Accepted
Verifiable	Yes
Verification	By simulation and system test

12. [RB112] The system shall be used in variable lighting conditions

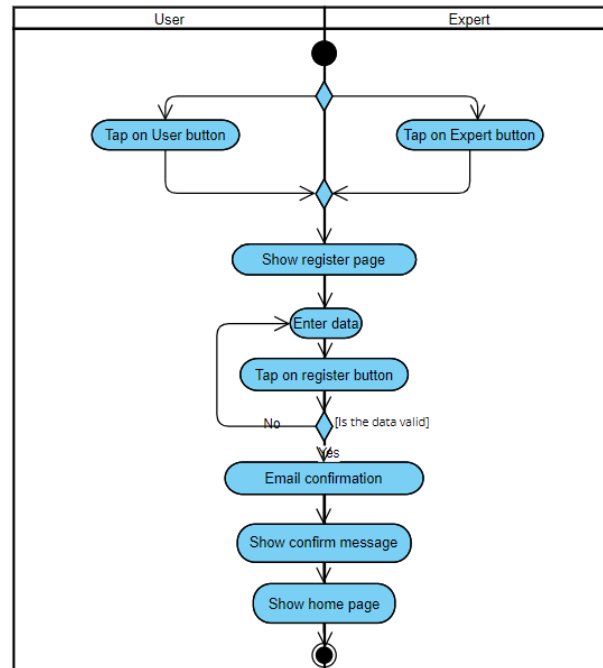
Source	Client
Priority	Optional
Release	1
Review Status	Pending
Verifiable	No
Verification	Non

13. [RB113] The system shall be able to be modified to cope with a new class of use

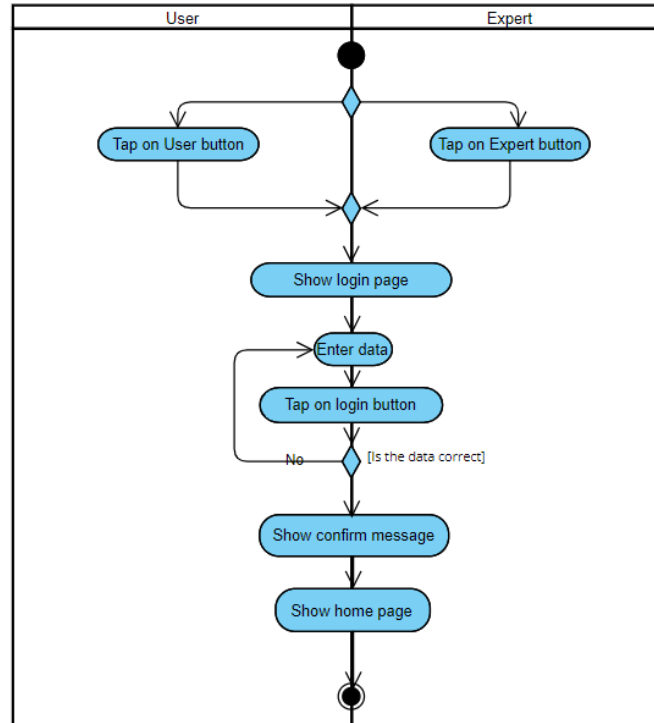
Source	Client
Priority	Optional
Release	1
Review Status	pending
Verifiable	No
Verification	Non

4. Activity diagram

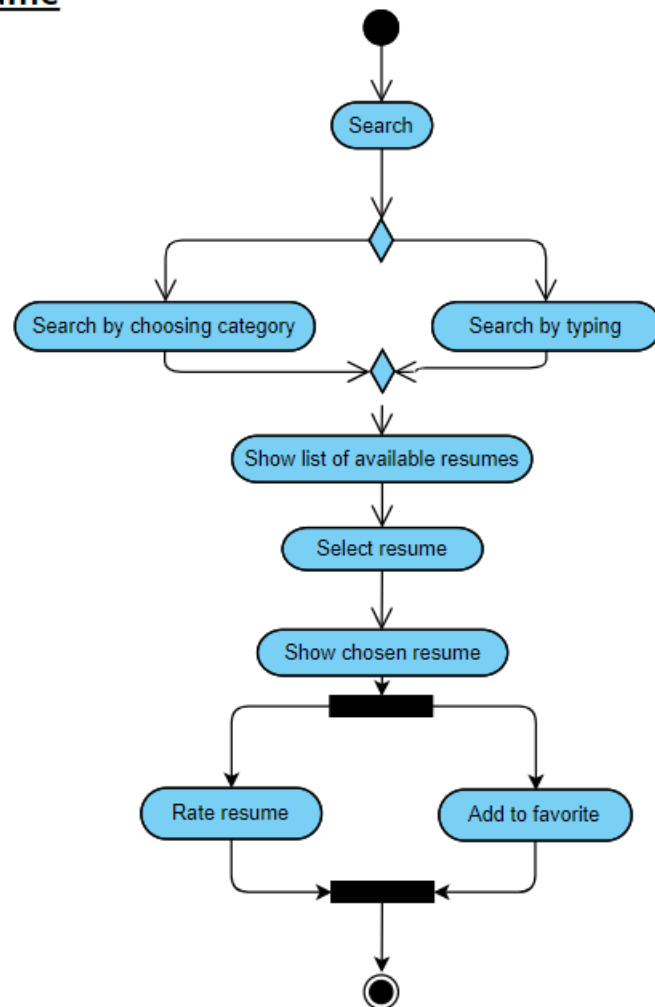
Register



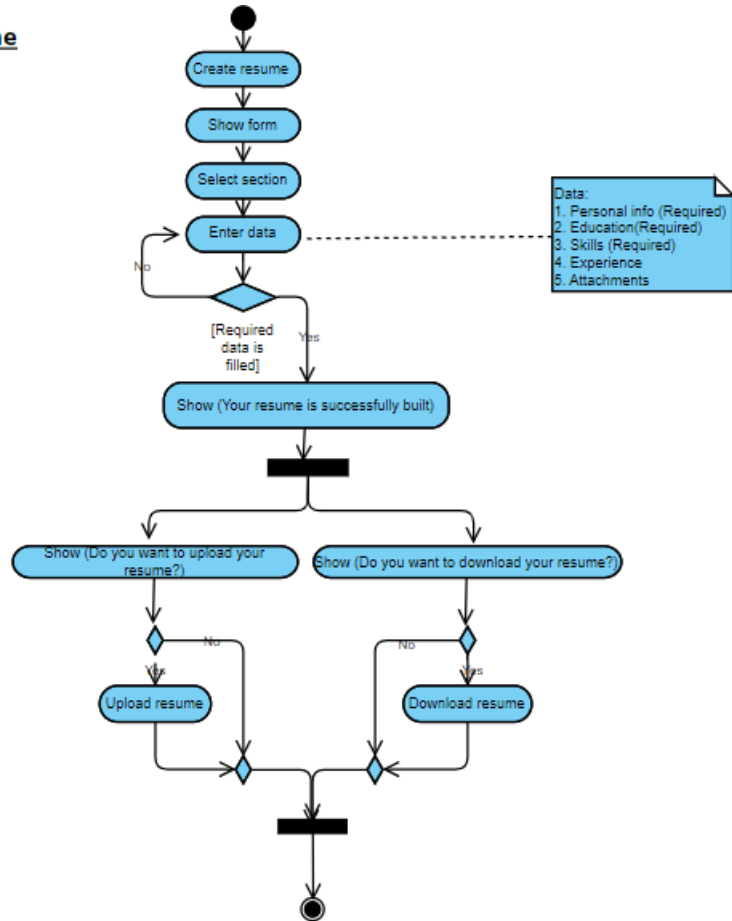
Login



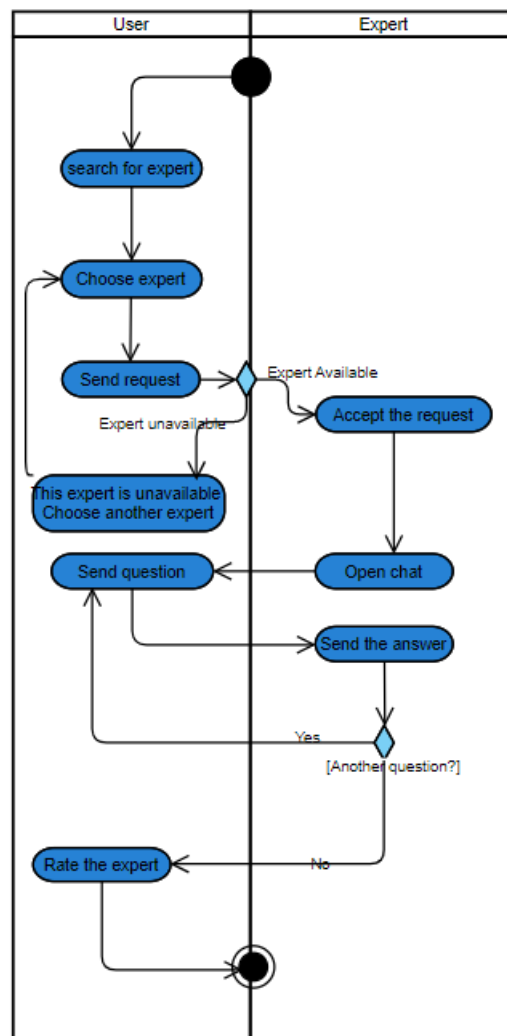
Search resume



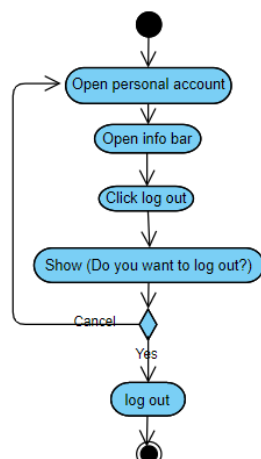
Create Resume



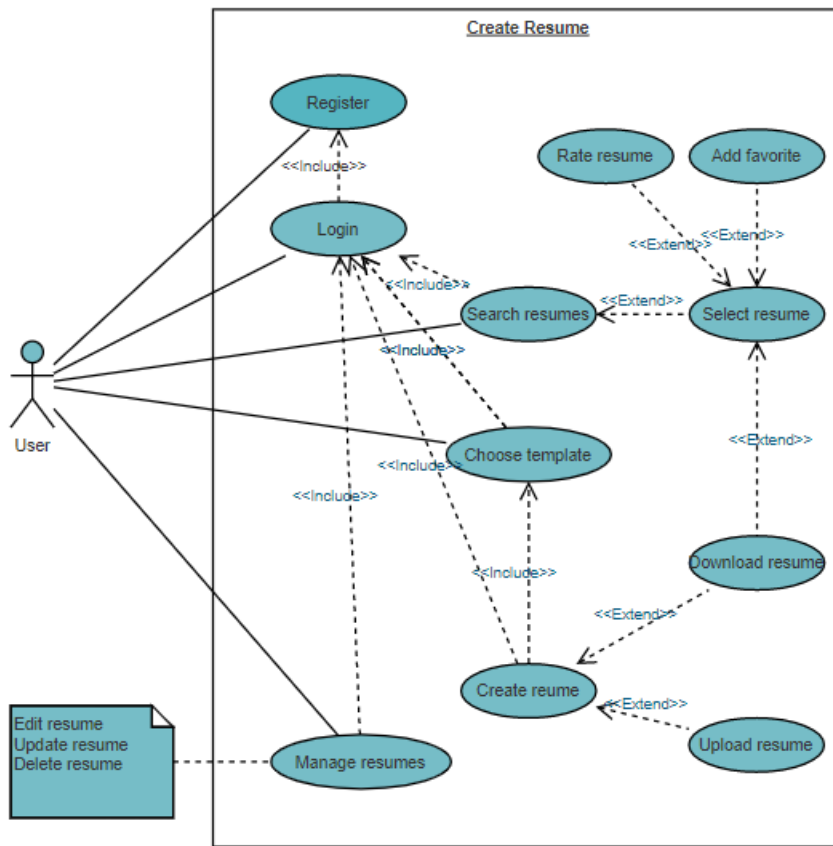
Contact expert



Log out



5. Use case diagrams



Identifier and name: [RB201] Create resume

Initiator: End-user

Goal: A resume is created for a user

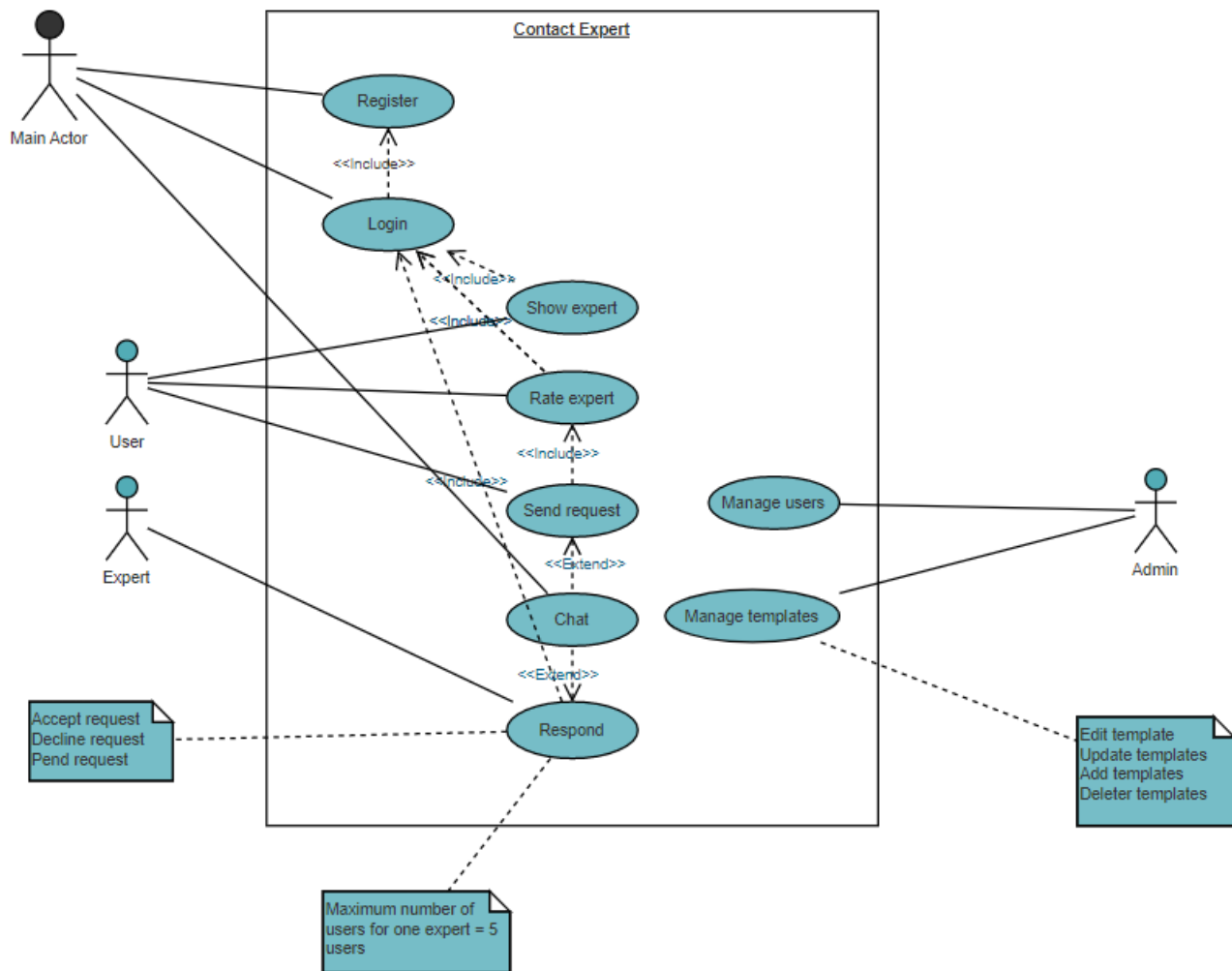
Preconditions: The user shall have a logged-in account in the application.

Postconditions:

- A resume of the chosen template shall be created for the user.
- The obtained resume will contain the whole data filled in sections by the user.

Main successful scenario:

1. The user creates an account
2. The user selects to search for resume examples.
3. The user selects a specific resume.
4. The user selects to add the resume to his favorites, download, or rate.
5. The user selects to create a new resume.
6. The user fills his information in resume sections in any order.
7. The user selects to show the available templates.
8. The system provides templates for user to select.
9. The user selects the preferred template.
10. The system displays user's final resume.
11. The user selects to upload or download his resume.
12. The user can edit his resume or create new one.



Identifier and name: [RB202] Contact expert

Initiator: End-user

Goal: A contact between the user and the expert has been established.

Preconditions: None

Postconditions: None

Main successful scenario:

1. The user selects to contact an expert
2. The user searches and selects a specific expert
3. The system the availability of this expert
4. The system sends the request to this expert
5. The expert responds to this request
6. The system checks the acceptance of the responded value
7. A chat room will be established between the user and the expert.

Extensions:

- 3.1. expert not available
 - 3.1.1. the system will notify the user to choose another expert.
 - 3.1.2. the user selects another expert and continues to step 4 or cancel the request.
- 6.1. The respond has been rejected
 - 6.1.1. the system will notify the user to choose another expert.
 - 6.1.2. Continue at step 3.1.2
- 6.2. The respond has been pended
 - 6.2.1. The user waits the request acceptance or continue at step 3.1.2
 - 6.2.2. Continue at step 7

