Name: **MyPerfectCV.com**

Description: **MyPerfectCV.com** is an online platform that enables users to create professional and visually appealing resumes within minutes. The platform provides a user-friendly interface that guides the users through the CV creation process, offering pre-designed templates, suggestions for relevant skills and experience, and built-in editing and proofreading tools.

Features:

User-friendly interface: MyPerfectCV.com has a clean and intuitive interface that guides the users through the CV creation process, making it accessible to beginners.

Secure storage: The platform stores user details and CVs securely, ensuring user data protection.

Relevant suggestions: The platform suggests the most relevant skills and achievements based on the user's profile and purpose, making the CV creation process more efficient.

Multiple templates: **MyPerfectCV.com** provides multiple extensible/modifiable templates based on both Purpose (e.g., specific industry or academia) and Look and Feel, allowing users to choose from a variety of options.

Save and edit: **MyPerfectCV.com** allows users to save, edit, and update their CVs at any time, making it easy to make changes or updates as needed.

Export in PDF: The platform allows users to export their CVs in a shareable format, such as PDF, ensuring compatibility with various devices and operating systems.

Compatibility: MyPerfectCV.com is compatible with various devices and operating systems, ensuring a seamless user experience across different platforms on a website level.

Data privacy and security: The platform complies with relevant data privacy and security regulations, ensuring user data protection.(Encryption)

Scalable architecture: The platform has a scalable architecture that allows for future enhancements and updates, ensuring it stays up-to-date with the latest trends and technologies.

Backup and recovery: MyPerfectCV.com has a reliable backup and recovery system to ensure the availability of user data in case of any data loss.

Customer support: The platform has a responsive and efficient customer support system to address user queries and issues promptly.

Functional Requirements:

User registration and login: Users should be able to create an account and login to the platform to access the CV generation features alternative (cookie)

User data management: Users should be able to input their personal and professional details, including education, work experience, skills, and achievement

CV creation: The platform should enable users to create a CV in a standard format based on the user's profile and purpose.

Template selection: Users should be able to choose from multiple extensible/modifiable templates based on both Purpose (e.g., specific industry or academia) and Look and Feel for their CVs.

CV editing: Users should be able to edit their CVs, add or remove information, and update their CVs at any time.

CV preview: The platform should provide a preview of the generated CV, allowing users to make any necessary changes before exporting it in a sharable format.

Export in PDF: The platform should allow users to export their CVs in a shareable format, such as PDF.

Non-Functional Requirements:

Security: The platform should ensure secure storage of user details and CVs, protecting user data from unauthorized access.
Usability: The platform should have a user-friendly interface that is easy to navigate, making the CV creation process accessible to beginners.

Reliability: The platform should be reliable, ensuring that users can access the platform without interruptions.

Scalability: The platform should have a scalable architecture that allows for future enhancements and updates, ensuring it stays up-to-date with the latest trends and technologies.

Performance: The platform should have a fast and responsive performance, ensuring a seamless user experience.

Compatibility: The platform should be compatible with various devices and operating systems, ensuring a seamless user experience across different platforms.

Data privacy: The platform should comply with relevant data privacy regulations, ensuring user data protection.

Customer support: The platform should have a responsive and efficient customer support system to address user queries and issues promptly.

SOLUTION:

MyPerfectCv.com is a web based application which solves the hessel of creating CVs manually. Our website will contain predefined templates CVs which can be used by any kind of users based on their preferences. It will export the CV in pdf form so that the user will be able to get there and post it anywhere anytime.

Target Platforms and Methods:

User registration and login:
Use Node.js and Express to create an API endpoint for user registration and login.
Use Postgres to store user account information securely.
Use JSON Web Tokens (JWT) for authentication and authorization.

User profile management:
Using Postgresql to store user profile information, including education, work experience, skills, and achievements.
Using Bootstrap to create a user-friendly interface for users to manage their profile information.
Using API endpoints to handle user profile management operations, such as adding or removing information.

CV creation:
Using Bootstrap to create a CV creation form that guides users through the CV creation process.
Using API endpoints to handle CV creation operations, such as generating a standard format CV based on the user's profile and purpose.

Template selection:
Using Bootstrap to create a template selection page where users can choose from multiple extensible/modifiable templates based on both Purpose (e.g., specific industry or academia) and Look and Feel for their CVs.
Using Postgresql to store the template information.

CV editing:
Using Bootstrap to create a CV editing form that allows users to edit their CVs.
Using API endpoints to handle CV editing operations, such as adding or removing information.

CV preview:
Using Bootstrap to create a CV preview page that shows users a preview of their generated CVs.
Using API endpoints to handle preview operations.

Export in PDF:
Using a third-party library like PDFKit or jsPDF to generate PDFs of the CVs.
Using API endpoints to handle PDF export operations.

Non-Functional Requirements:

Security:
Using encryption to secure user data.
Implementing user authentication and authorization using JWT.

Usability:
Using a responsive design that works well on different devices and screen sizes.
Using user-friendly UI components and design patterns.

Reliability:
Using a cloud hosting provider like Postgresql to ensure security and scalability.

Implement automated testing and continuous integration and deployment (CI/CD) to ensure code quality and stability.

Scalability:
Using cloud services like AWS Lambda or AWS Elastic Beanstalk to scale the application automatically.

Performance:
Optimizing the application's code and database queries for performance.
Use a content delivery network (CDN) to cache static assets like images and CSS.

Compatibility:
Ensuring cross-browser compatibility by testing the application on different browsers.

Data privacy:
Implementing data protection measures like data encryption(hashing) and access control(user and admin).

Customer support:
Implementing a support system like Zendesk to address user queries and issues promptly.
Implement error handling and exception handling mechanisms to prevent crashes and ensure data integrity.

User Scenario

Suppose, a user is a recent graduate or any person who is looking for a new job. The user has heard about an automated CV generator that can help the user to create a professional-looking resume easily.
The User navigates to the website of the automated CV generator and registers for a new account by providing her email and a password.
After logging in, the user is directed to the dashboard, where the user can see the various options available. The user selects the "Create New CV" option and is taken to a form where the user can input user’s personal and professional details, including education, work experience, skills, and achievements.

The application suggests relevant skills and achievements based on the information the user provides, and the user selects the ones that apply to the user. The user can also add any additional information that the user thinks is relevant.
Next, the user selects a template for the user CV from a list of predefined templates, which are categorized by industry and design.
The application generates a preview of the user's CV based on the information the user provided and the template the user selected. The user can review the CV and make any necessary changes, such as editing the content or adjusting the layout.
Once the user is satisfied with the CV, the user saves it and downloads it in a PDF format. The user can also choose to share it with potential employers by sending it via email or uploading it to a job portal.
The user can access user's saved CVs at any time from the dashboard and make any necessary updates or modifications.

Use case details for Sign Up

Iteration: 1, last modification: 18 March 2023 by Ridun.
Primary actor: Job Seekers
Goal in context: To ensure that the account of a user can be created safely.
Precondition: System should be configured in the right way.
Trigger: User will click on the sign up button.
Scenario:
● The user will click on the sign up button.
● Users will have to submit an email id.
● User will have set a password of at least 6 characters containing number, lowercase and uppercase letters.
● After giving this information the user will click on the "create account" button and an OTP will be sent to his email id then after verification the account will be created and a confirmation message will be sent to his email.

Use case details for verification

Iteration: 1, last modification: 18 March 2023 by Ridun.
Primary actor: Job seekers
Goal in context: To ensure that the account of a user can be created and maintained safely.
Precondition: System should be configured in the right way.
Trigger: User will click on the sign up or login or reset button.

Scenario:
● The user (job seekers) will click on the sign up or reset password button.
● In case of sign up after giving the required information an otp will be sent to the email account of the user.
● In case of reset password after clicking on the reset/forgot password button an otp will be sent to the email account of the user.
● After entering the correct OTP in a given time the verification the process will be done.

Exceptions:
● Users may not be able to enter the correct OTP that has been sent for verification.
● OTP sending can fail due to server issues.
Priority: 1st priority.
When available: In the first iteration.
Frequency of use: Moderate frequency of use.
Channel to actor: PC or mobile phone.
Secondary actor: Mail
Open issue: No open issue. Everything is clear about this use case.

Use case details for Login

Iteration: 1, last modification: 18 March 2023 by Ridun.
Primary actor: Job seekers
Goal in context: To ensure that the user can access his/her account.
Precondition: User has to create an account before.
Trigger: User will click on the login button.

Scenario:
● The user (job seekers) will click on the login button.
● User will be able to access his or her account by entering the username and correct password.

Exceptions:
● Users may give incorrect username and password.
● Data fetching from the database may fail due to technical issues.
Priority: 1st priority.
When available: In the first iteration.
Frequency of use: Moderate frequency of use.
Channel to actor: PC or mobile phone.
Secondary actor: Mail.
Open issue: No open issue. Everything is clear about this use case.

Use case details for reset password

Iteration: 1, last modification: 18 March 2023 by Ridun.
Primary actor: Job seekers
Goal in context: To ensure that the user can reset his/her account's password.
Precondition: Users must have an account before.
Trigger: User will click on the reset password/ forget button.

Scenario:
● The user (job seekers) will click on the reset password button.
● User will have to enter his/her email account with which the
an account has been created.
● After giving the email account an OTP will be sent to that email
address.
● After entering the correct OTP within the given time the user will
be able to reset the password.

Exceptions:
● Users may give incorrect email addresses.
● Users may not be able to give the correct OTP within the time limit.
Priority: 1st priority.
When available: In the 2nd iteration.
Frequency of use: Moderate frequency of use.
Channel to actor: PC or mobile phone.
Secondary actor: Mail.
Open issue: No open issue. Everything is clear about this use case.

Use case details for Making CV

Iteration: 1, Last modification: 18 March 2023 by Ridun.
Primary Actor: Users who want to make a CV.
Goal in Context: Make CV using ready templates.
Precondition: User must have a valid account to make a CV.
Trigger: Whenever a user wants to make a CV.

Scenarios:
● First, any user logs into the website using his verified account.
● The user will choose templates to make a CV.
● The user will fill up the required information.

Exceptions:
● The user must fill up the required information otherwise the user will not be able to make a perfect CV.
Priority: High priority, should be implemented after basic operations
When available: After the first increment.
Frequency of use: High frequency.

Channel-to-actor: Via pc, laptops, tabs, mobile phone, and internet connections.
Secondary actor: System.
Channel-to-secondary actor: Pc-based System.
Open issues:
● Can anyone misuse this feature by giving out false information?

Use case details for Previewing CV

Iteration: 1, Last modification: 18 March 2023 by Ridun.
Primary Actor: Users who want to preview their CV.
Goal in Context: Preview CV after making.
Precondition: Users must have to make a CV before.
Trigger: Whenever a user wants to preview CV as the user has already made a CV.

Scenarios:
● First, any user logs into the website using his verified account.
● The users will preview their CV after making it successfully.

Exceptions:
● The users must fill up the required information otherwise the user will not be able to preview their CV.
Priority: High priority, should be implemented after basic operations.
When available: After the first increment.
Frequency of use: High frequency.
Channel-to-actor: Via pc, laptops, tabs, mobile phone, and internet connections.
Secondary actor: System.
Channel-to-secondary actor: Pc-based System.
Open issues: No open issues.

Use case details for Saving CV

Iteration: 1, Last modification: 18 March 2023 by Ridun.
Primary Actor: Users who want to save his/her CV.
Goal in Context: Save CV after making.
Precondition: Users must have to make a CV before.
Trigger: Whenever a user wants to save a CV as the user has already made a CV.

Scenarios:
● First, any user logs into the website using his verified account.
● The user will save his/her CV after making it successfully.

Exceptions:
● The users must fill up the required information otherwise the user will not be able to save their CV.
Priority: High priority, should be implemented after basic operations.
When available: After the first increment.
Frequency of use: High frequency.
Channel-to-actor: Via pc, laptops, tabs, mobile phone, and internet connections.
Secondary actor: System.
Channel-to-secondary actor: Pc-based System.
Open issues: No open issues.

Use case details for Exporting CV in PDF format

Iteration: 1, Last modification: 18 March 2023 by Ridun.
Primary Actor: Users who want to export their CV in PDF format
Goal in Context: Download CV after making.
Precondition: Users must have to make a CV before.
Trigger: Whenever a user wants to download a CV as the user has already made a CV.

Scenarios:
● First, any user logs into the website using his verified account.
● The users will export their CV in PDF format after making it successfully.

Exceptions:
● The users must fill up the required information otherwise the user will not be able to download their CV.
Priority: High priority, should be implemented after basic operations.
When available: After the first increment.
Frequency of use: High frequency.
Channel-to-actor: Via pc, laptops, tabs, mobile phone, and internet connections.
Secondary actor: System.
Channel-to-secondary actor: Pc-based System.
Open issues: No open issues.

Use case details for Updating CV

Iteration: 1, Last modification: 18 March 2023 by Ridun.
Primary Actor: Users who want to update his/her CV.
Goal in Context: Update CV after making.
Precondition: Users must have to make a CV before.
Trigger: Whenever a user wants to update a CV as the user has already made a CV.

Scenarios:
● First, any user logs into the website using his verified account.
● The user will update information in his/her CV.

Exceptions:
● The user must add additional information otherwise the user will not be able to update their CV.
Priority: High priority, should be implemented after basic operations.
When available: After the first increment.
Frequency of use: High frequency.
Channel-to-actor: Via pc, laptops, tabs, mobile phone, and internet connections.
Secondary actor: System.
Channel-to-secondary actor: Pc-based System.
Open issues:
● Can anyone misuse this feature by giving out false information?

Use case details for Suggesting Skills

Iteration: 1, Last modification: 18 March 2023 by Ridun.
Primary Actor: Users who want to need help to add more skills.
Goal in Context: Provide a suggestion system to the users.
Precondition: User must have a verified account to have suggestions
Trigger: Whenever a user needs suggestions to add more skills.

Scenarios:
● First, any user logs into the website using his verified account.
● The user will get skill suggestions.

Exceptions:
● The user must have a verified account to have skill suggestions otherwise the system will not allow the user to prevail this feature.
Priority: High priority, should be implemented after basic operations.
When available: After the first increment.
Frequency of use: High frequency.
Channel-to-actor: Via pc, laptops, tabs, mobile phone, and internet connections.
Secondary actor: System.
Channel-to-secondary actor: Pc-based System.
Open issues: No open issues.

Use case details for Customer Support

Iteration: 1, Last modification: 18 March 2023 by Ridun.
Primary Actor: Users who want to take customer support for any inquiries.
Goal in Context: Provide customer support to the users.
Precondition: Users must have to make a CV before.
Trigger: Whenever a user wants to update a CV as the user has already made a CV.

Scenarios:
● First, any user logs into the website using his verified account.
● The user will take customer support if they need to know any inquiries or face any inconvenience in the system.

Exceptions:
● The user must have a verified account to take customer support otherwise the system will not allow the user to prevail this feature.
Priority: High priority, should be implemented after basic operations.
When available: After the first increment.
Frequency of use: High frequency.
Channel-to-actor: Via pc, laptops, tabs, mobile phone, and internet connections.
Secondary actor: System.
Channel-to-secondary actor: Pc-based System.
Open issues:
● Can anyone misuse this feature by giving out unnecessary inquiries?

Use Case Diagram:

Name: MyPerfectCV.com
Primary Actor:
Secondary Actor: Email, UI, System

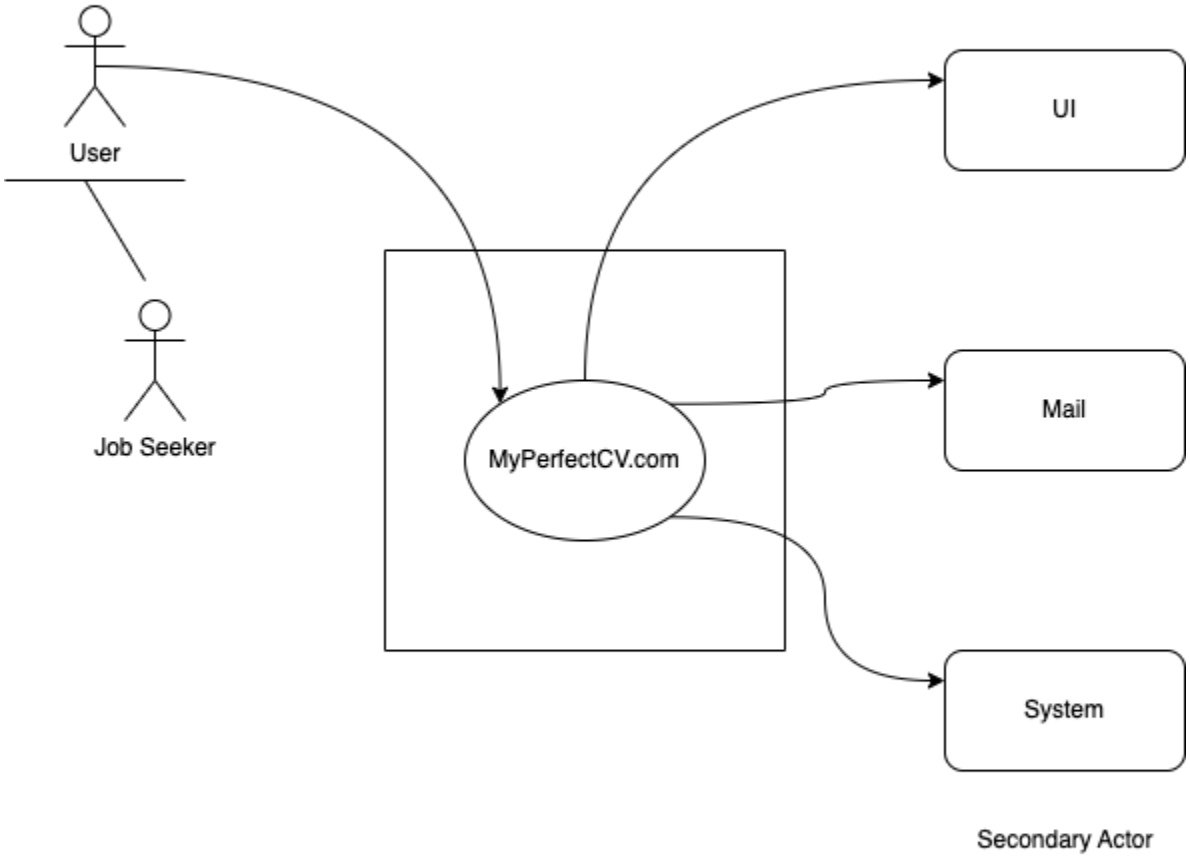


Figure 1 : MyPerfectCV.com

Author: Tasrefee Mahmood Ridun

Name: MyPerfectCV (Detailed)
Primary Actor: Job Seeker
Secondary Actor: Email, UI, System

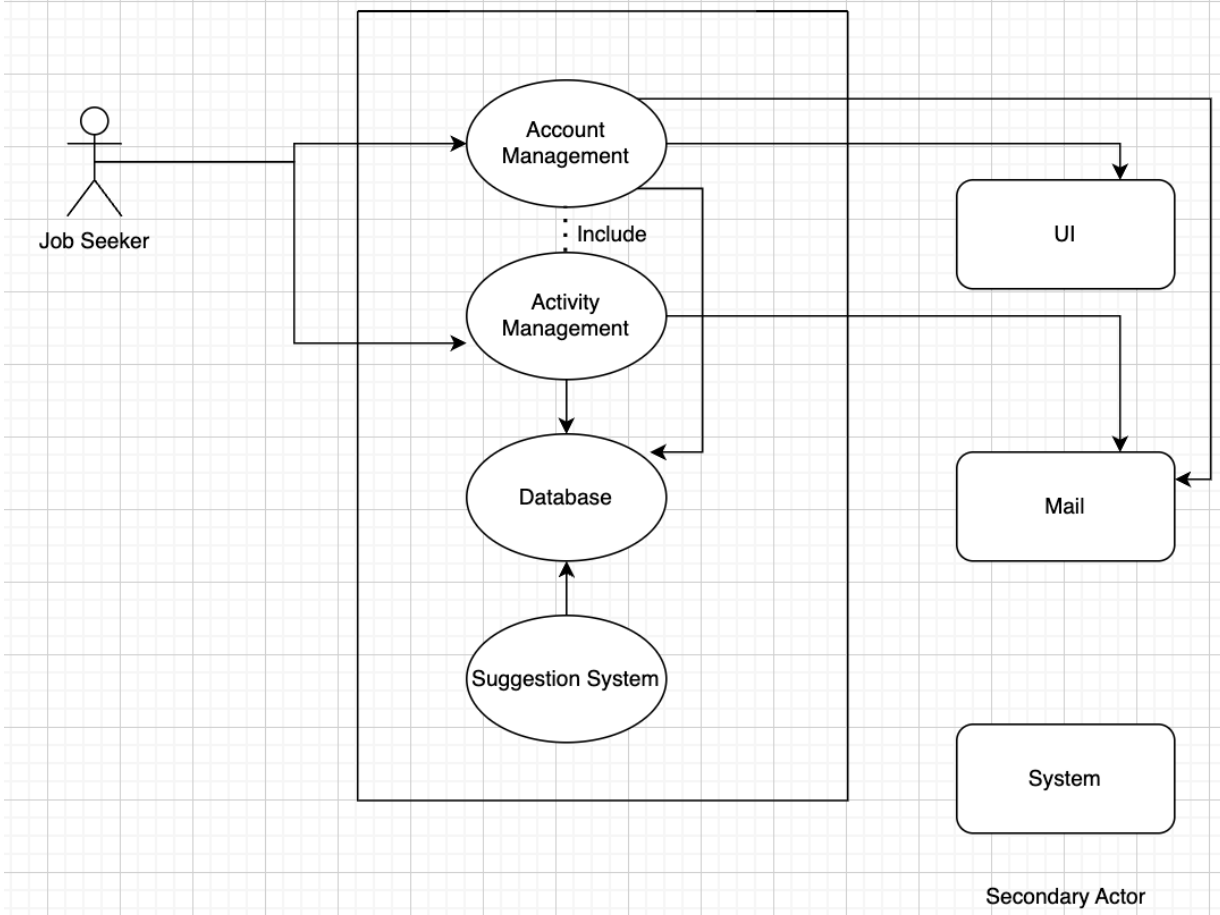


Figure 2 : MyPerfectCV (Detailed)

Author: Tasrefee Mahmood Ridun

Name: Account Management
Primary Actor: Job Seeker
Secondary Actor: UI, Email

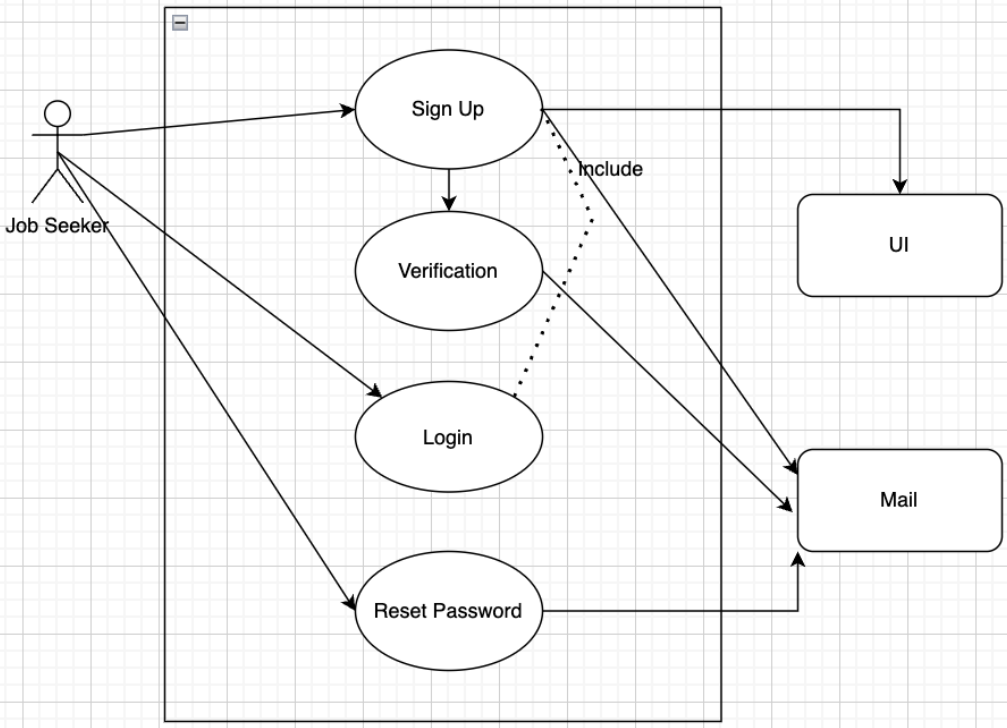


Figure 3 : Account Management

Author: Tasrefee Mahmood Ridun

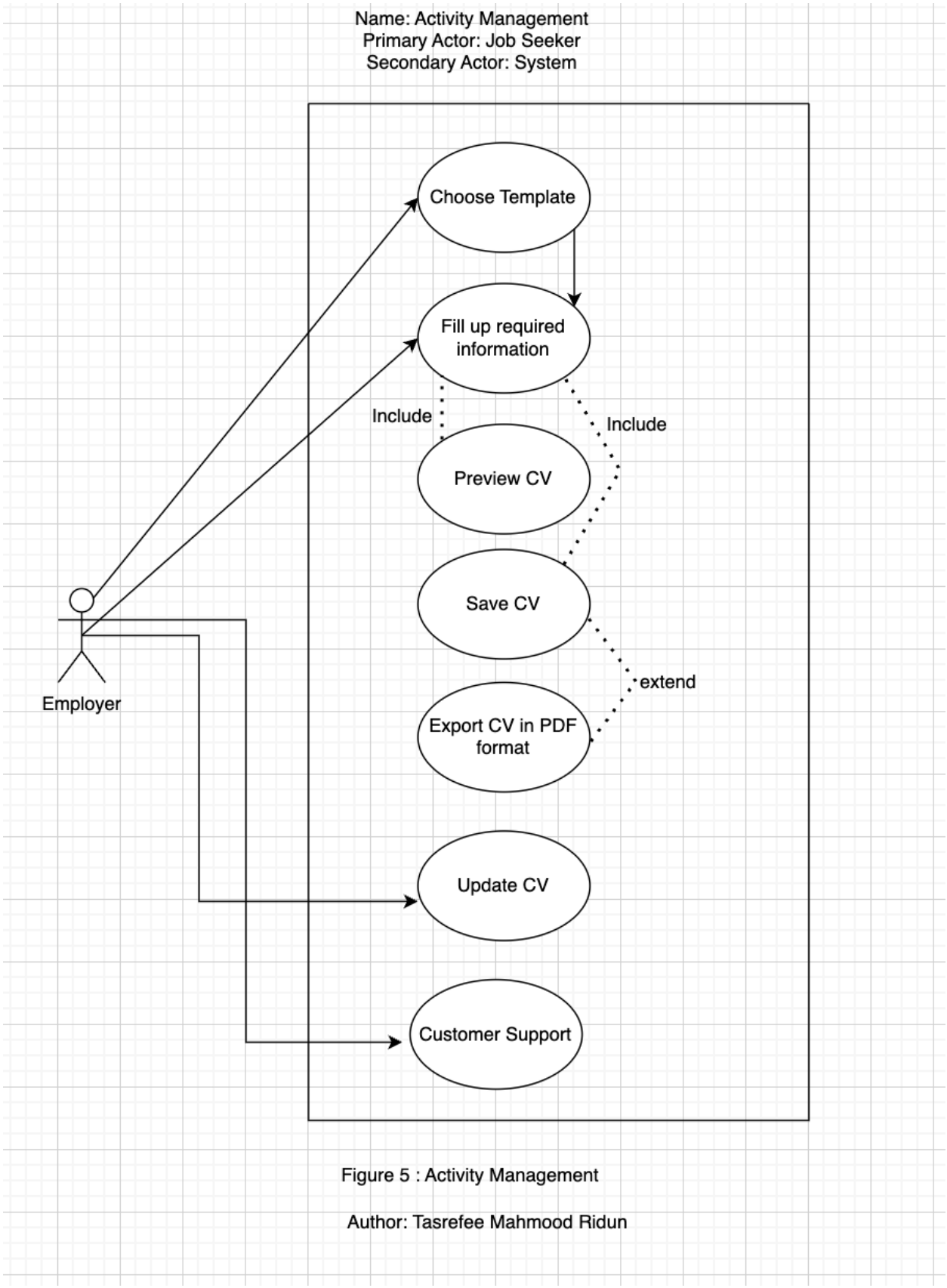
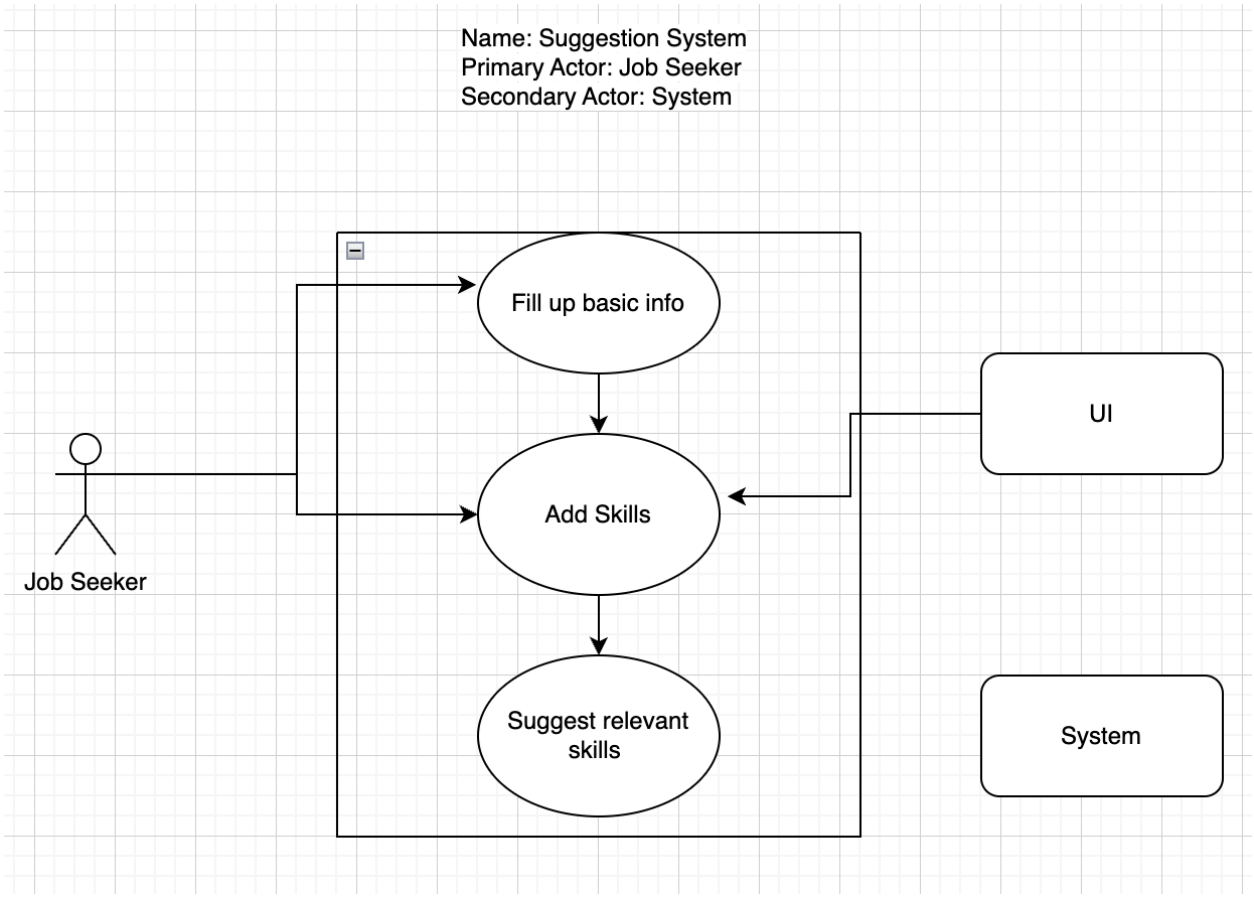
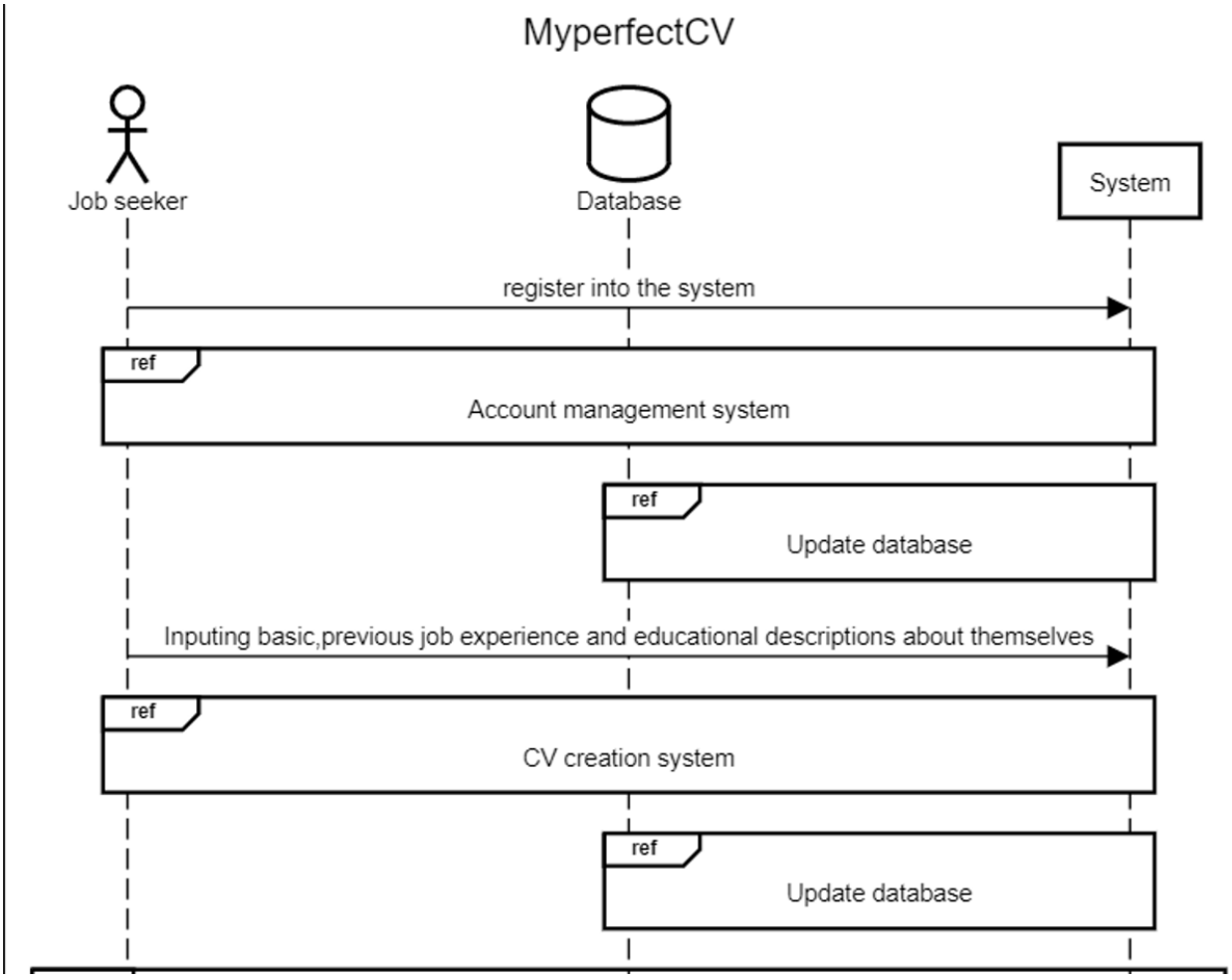


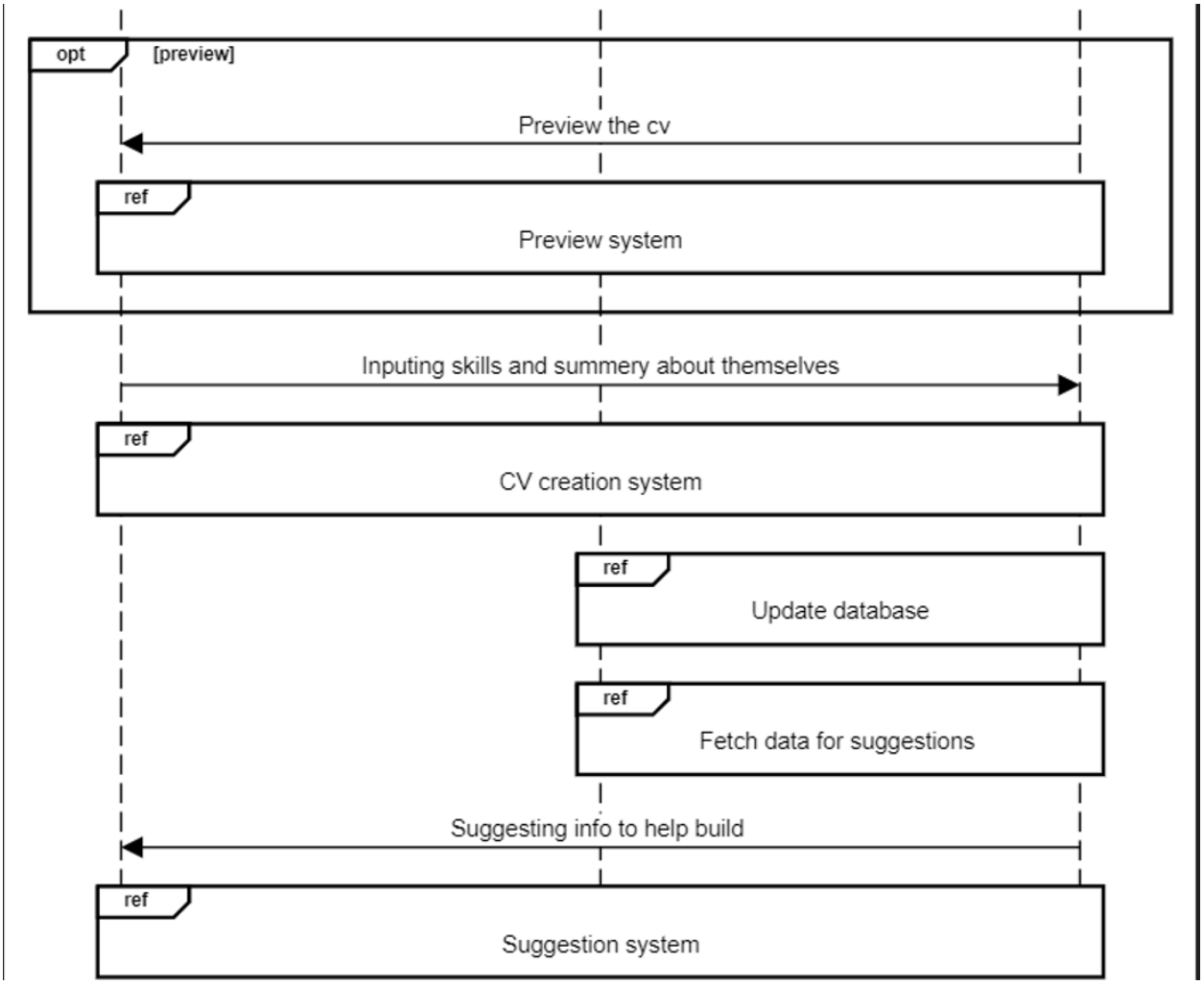
Figure 5 : Activity Management

Author: Tasrefee Mahmood Ridun


Name: Suggestion System
Primary Actor: Job Seeker
Secondary Actor: System
Fill up basic info
Add Skills
Suggest relevant skills
Job Seeker
UI
System

Sequence Diagram:




opt
[preview]
Preview the cv
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Preview system
Inputing skills and summery about themselves
ref
CV creation system
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Update database
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Fetch data for suggestions
Suggesting info to help build
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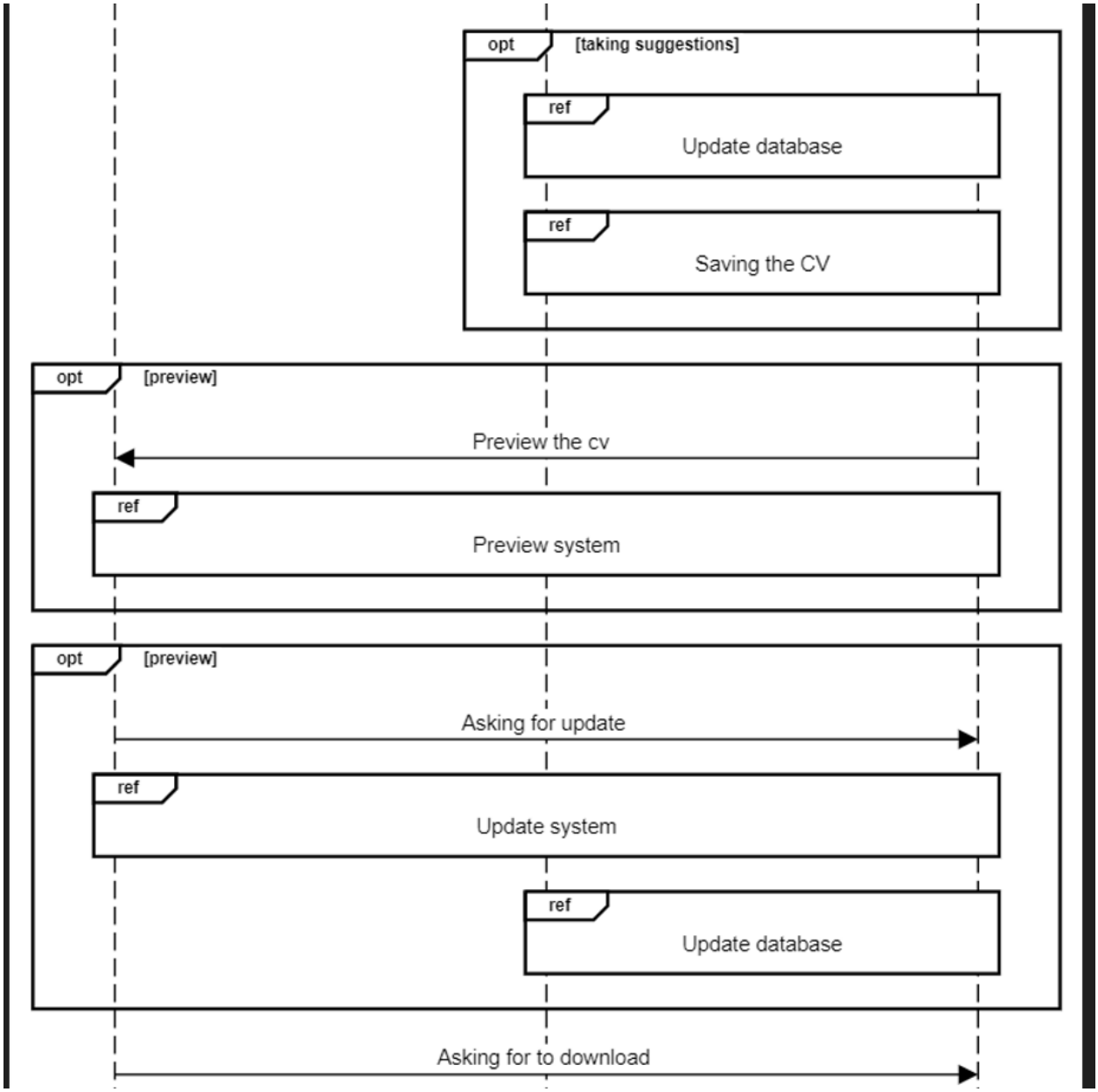
Suggestion system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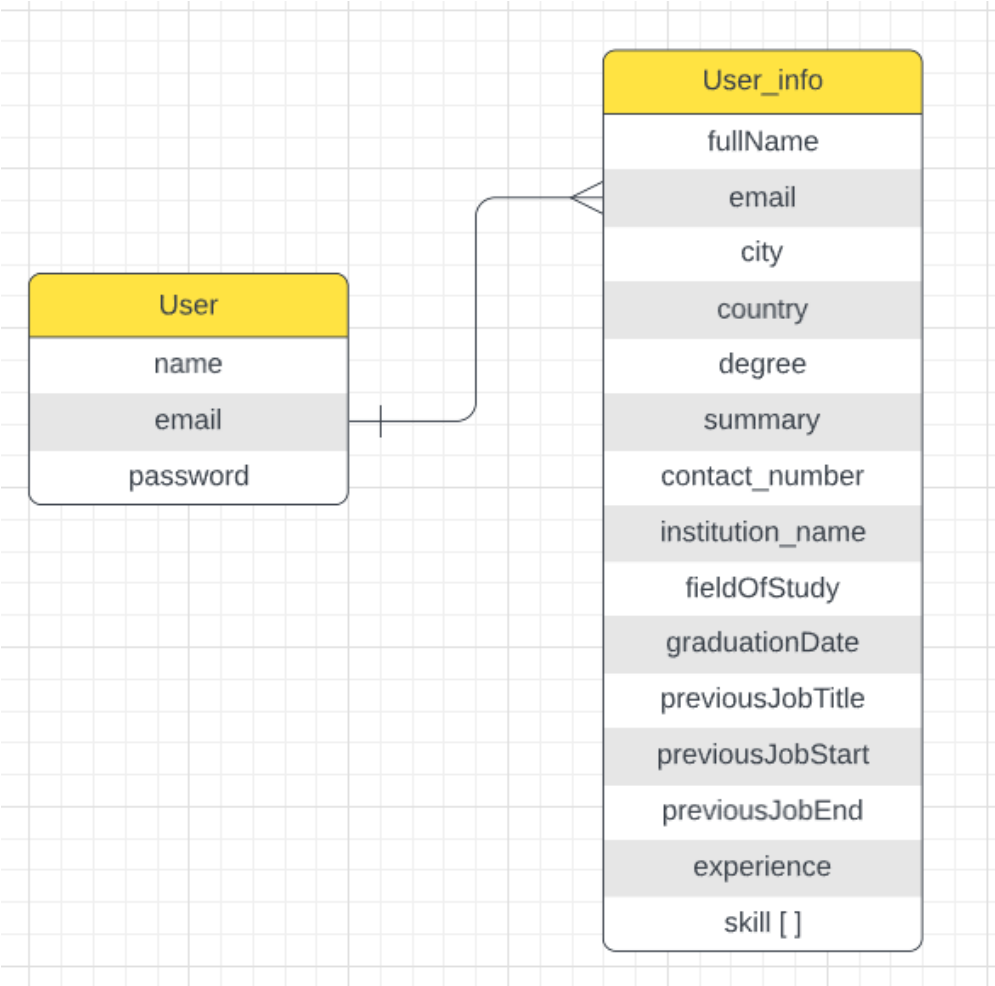
ER Diagram:



Prototype link :- https://www.figma.com/file/DZnvL7mM0hhzSYxi4q03W0/MyPerfectCV?node-id=0-1&t=tE1uqPwjrr06lujA-0