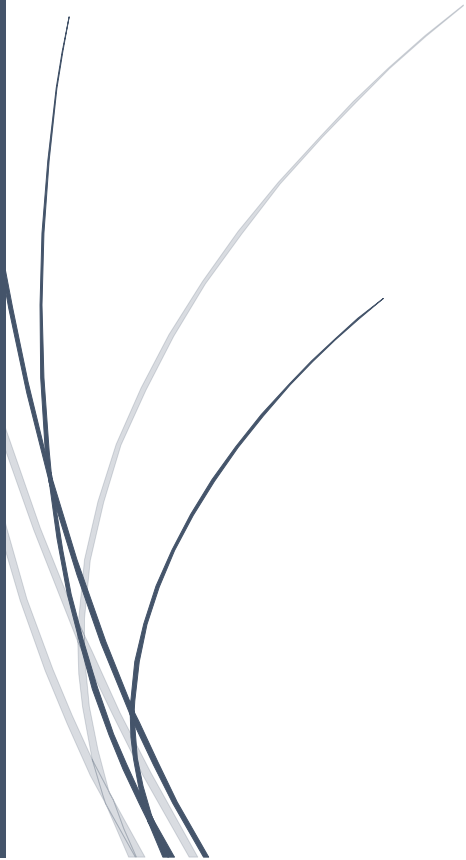


5/11/2020

# Casino Jobs Application

Software Requirements and Design Document



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## 1. Introduction:

This is Software Requirement Specification Document for “CJ-Application”. It provides overall description of the project. This document is prepared using the IEEE requirement document standers. It explains the business goals and business requirements to develop this project. It includes product perspectives and it’s all requirements (including functional and non-functional) and description for each functionality. It also incircle the scope of the project and main functionalities of the system.

### 1.1 Purpose

This document shows the software requirement specifications for the project “CJ-Application” underdevelopment. The given document may change during the project development. The version 1.0 is an introductory one. If document changes, further modifications in requirements will be added according the process mentioned in project plane. This document is prepared to support the development team and all the functionalities added in it are mentioned in assistance of the client (product owner).

### 1.2 Vision Statement

This document is recognized as a long-term asset in the areas of environmental stewardship, innovative technology, national security and energy independence, which acts with an inspired workforce and mature, efficient management processes, while sustaining public confidence in our people and capabilities.

### 1.3 Scope

This system will have Web application (Responsive). It will be web application for Visitors, Job Seekers and Casino Owners/ Managers/Employee. Admin will be provided web portal to perform administrative functions. Application will have all functionalities mentioned below in the section-1.4. It will also meet the quality requirements (NFRs) in essence of security, privacy usability, performance and other aspects as mentioned in details in section-4.5 below in this document.

### 1.4 Product Functions:

The under-development system will have following functions:

#### General Application Features

- Registration of all users.
- Authentication of users through login.
- Account verification through email.
- Change to a Two Step Verification Method.
  - Default security verification method.

- Security verification method details, like your phone number.
- Authenticator app setup or deleting a device from the authenticator app.
- Creating user's profile.
- Adding multiple cover letters.
- Switch mood of application.
- Smart chatbot /Messaging.
- Notifications.
- Accounts setting.
- Privacy setting.
- Contacting to application support team.
- Application About Information.
- Application Social Media Links.
- Terms and Condition Agreement.
- Logout of users closing all active sessions.

### **Dashboard for Job seeker**

- Searching jobs.
- Viewing My Saved and Applied Jobs.
- Applying filters on job search.
- Finding company.
- Compare companies.
- Write a company review.
- Finding Salaries.
- Salary Calculator.
- Add a Salary.
- Sharing success stories.
- Uploading Resume.
- Following Casino/Company.
- Recent Activity.
- Advanced Job Search.
- Getting Job Alerts.
- Browsing Jobs.
- Apply for job opportunities.
- Parsing of resume/CV.
- Sending Resume with job application.
- Sending Video with job application.
- Canceling job Application.
- Viewing all of submitted applications.
- Viewing all saved jobs.
- Viewing status of job application.
- Giving recommendations (AI based) to the job seekers.
- Display latest promoted jobs on newsfeed/timeline of job seekers.

### **Dashboard for Casino Owner/Manager/Employee**

- Posting new job opportunity.
- Promoting job opportunity.
- Augmented Writing when writing a job description.
- Viewing all received job applications.
- Search Resume of applicant.
- View job feed.
- Sorting received application according to high matching to job requirements.
- Changing status of application (Conducted/Rejected/Accepted).
- Downloading Video of Applicant and deleting.
- Downloading resume of applicant.
- Freemium model for one add.
- Payment for job promotion.
- Adding payment method.
- Verifying payment method.
- Subscription of application's premium version.
- Payment for job application.

### **Dashboard for Job Administrator**

- Showing the application usage statics to admin.
- Managing (add/delete/update) records of users.
- Managing (add/delete/update) records of jobs.
- Managing (add/delete/update) records of applications.
- Generating reports of records.
- Printing reports of records.
- Searching data from records.
- Applying filter on record search.
- Change account password.

### **Other Features**

- Jobs counter for each job category.
- Number count of companies on board.
- On the Home page of Angellist.com.
- Tracking of user account cookies.
- Salary calculator.
- AI based Chatbot.
- Ranking of resumes using AI and ML based algorithms.
- Integration with Full Stack Job Board, CRM YETIFORCE.COM.

## 1.5 Definition of Terms, Acronyms and Abbreviations

There are some abbreviations and term which are used in this document are not commonly used by general public so these are explained here.

Term	Description
<b>NFRs</b>	Non-functional requirements also known as quality requirements.
<b>CJ Application</b>	Casino Jobs Application
<b>Database</b>	An organized collection of data, generally stored and accessed electronically from a computer system.
<b>Two-Step Verification</b>	The act of reviewing, inspecting or testing, in order to establish and document that a product, service or system meets regulatory or technical standards.
<b>Data backup</b>	The result of copying or archiving files and folders for the purpose of being able to restore them in case of data loss.
<b>Transaction</b>	An agreement, or communication, carried out between a buyer and a seller to exchange an asset for payment.
<b>Logging</b>	Logging is to record the actions performed by the user and response of system.
<b>Cookies</b>	Small files which are stored on a user's computer.
<b>IEEE</b>	The Institute of Electrical and Electronics Engineers.
<b>Administrator</b>	A person responsible for carrying out the administration of business.

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## 2. Intended Stakeholders

- Product Owner
- Project Manager (Development Team Lead)
- Testers (Quality Assurance Team)
- Application Administrator
- Casino Owner
- Casino Manager/Employ
- Job Seeker

## 3. Overall Description

In this section, we will provide background information about specific requirements of the system.

Although we will not describe them in detail, we will introduce general factors that affect the product.

### 3.1 Product Perspective

**CJ-Application** has three panels one is for Job seekers through which they search jobs and add their own requirements. It will allow the job seekers to maintain their profile according to their professional skills to create multiple resumes. The other panel is for casino employee/managers to manage job posts and manage the job applications received by job seekers. The third one panel will be provided to the administrator of the system through which admin can manage the records of whole system and also can generate report of statics.

### 3.2 User Classes and Characteristics

Users	Characteristics
<b>Administrator</b>	Administrator is a role in the system which can perform administrative all functions of the system.
<b>Visitors</b>	Visitor is a role in the system which can perform user few basic tasks in the system.
<b>Manager</b>	Manager is a role n the system which can manage jobs in the system.
<b>Casino Owner</b>	Owner is the role in the system which can add managers to the system.
<b>Job Seeker</b>	Job Seeker is the role in the system which can use end functionalities of the system.



### 3.3 Operating Environment

**OE.01:** Web base system will operate correctly with the following browsers i.e. Firefox, Safari, Google Chrome and Internet Explorer.

**OE.02:** System should be used on computer with operating systems for Microsoft 7/8/10, Linux, Ubuntu, Mac OS and on smartphones with operating system for iOS 7/8/9/10/11/12 and Android 6/7/8/9/10.

### 3.4 Design Constraints

**DC.01:** The server side will be developed in Node JS server. Elasticsearch for the search engine. The web application will be developed in react. Database should be Firebase and MongoDB.

**DC.02:** Central server of the system must be asynchronous.

### 3.5 Assumptions and Dependencies

#### 3.5.1 Assumptions

**ASM.01:** The user has basic knowledge of computers and the Internet.

**ASM.02:** The customer of the application should be well acquainted with English language.

**ASM.03:** The other software which are to be attached with this system are working properly.

#### 3.5.2 Dependencies

**DEP.01:** There must be an internet connection on the running device in order to operate the system application properly.

**DEP.02:** Customer lives in the region where application provides the services.

## 4. Specific Requirements

### 4.1 Business Requirements

The business requirements of software project are concerned to business users such as visitors, job seekers, managers/employees and administrators. Early in the development cycle of a system it is to guide the design of the future system.

#### 4.1.1 Background

Finding a suitable job or finding a suitable employer always had been a problem. Job seekers have to put efforts to find jobs but even then, they are not successful to find what they wanted for. On the other and managers/employee of the organizations always had been looking for new persons to join their firm which

can fulfill their requirements. In the similar way casinos managements had been face such kind of problems to find and manage the employee's job applications.

### 4.1.2 Business opportunity

This application (**CJ-Application**) would basically play the role of facilitator between job seekers and job Employers. Job seekers would be able to add their skills, salary requirements, preferred job type, preferred job location in order to find a suitable job. Job Employers, on the other hand, would be able to add jobs which would include: job type, salary, timeslot, location, required skills, job title. In this way, both the job seeker and job Employers can find their relevant job and suitable employee respectively. It will shorten the hiring process from weeks to days.

### 4.1.3 Business Requirements

Sr. No.	Description
<b>BR-01.</b>	System must help the job seekers to find job according to their requirements.
<b>BR-02.</b>	System must provide recommendations for suitable jobs.
<b>BR-03.</b>	System must have facility to calculate the salary for the job.
<b>BR-04.</b>	System must be able to notify the when their application for job is accepted.
<b>BR-05.</b>	System must have functionality to track and build runtime profile of each job seeker.
<b>BR-06.</b>	System must have facility for the Employee/Managers to post jobs with required skill set.
<b>BR-07.</b>	System should have facility to count the total available job vacancies of each category.
<b>BR-08.</b>	System should have facility to provide to subscribe for premium features of the application.
<b>BR-09.</b>	System should have facility to generate reports and print those reports.

## 4.2 User Interface Requirements

Sr. No.	Description
<b>IR-01.</b>	System must have responsive user web base interface for all possible devices.
<b>IR-02.</b>	System must have different interface (GUIs) for each user.
<b>IR-03.</b>	System must have simple and easy to understand interface.
<b>IR-04.</b>	System must have icons and pictures in its graphical user interface.
<b>IR-05.</b>	System must also have mobile interface for job seekers and managers.
<b>IR-06.</b>	System GUIs must follow the ISO-9995 standers.
<b>IR-07.</b>	System must show job counts and companies available at home page.
<b>IR-08.</b>	System must have latest posts on the top on news feed.

## 4.3 Functional Requirements

Following are the functionalities of the system under consideration.

### 4.3.1 Administrator

Sr. No.	Description	Priority
<b>FR-01.</b>	System shall be able to provide the facility to login to the system.	High
<b>FR-02.</b>	System shall be able to provide the facility to send verification code to user's email.	High
<b>FR-03.</b>	System shall be able to provide the facility to verify the verification code of the user.	Medium
<b>FR-04.</b>	System shall be able to provide the facility to change his/her account password.	Low
<b>FR-05.</b>	System shall be able to provide the facility to view his/her own profile.	High
<b>FR-06.</b>	System shall be able to provide the facility to update his/her own profile information.	Medium

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<b>FR-07.</b>	System shall be able to provide the facility to view the statics of application usage.	High
<b>FR-08.</b>	System shall be able to provide the facility to view the details of newly registered users.	Medium
<b>FR-09.</b>	System shall be able to provide the facility to view the details of all registered managers/employee.	High
<b>FR-10.</b>	System shall be able to provide the facility to view the profile of each of manger/employee.	High
<b>FR-11.</b>	System shall be able to provide the facility to block any of the employee/manger.	Medium
<b>FR-12.</b>	System shall be able to provide the facility to delete/remove account of employer/manger.	Low
<b>FR-13.</b>	System shall be able to provide the facility to send warning to manager/employer.	Low
<b>FR-14.</b>	System shall be able to provide the facility to view the history of employer/manager.	Medium
<b>FR-15.</b>	System shall be able to provide the facility to view all registered job seekers.	Medium
<b>FR-16.</b>	System shall be able to provide the facility to view the profile of any job seeker.	Medium
<b>FR-17.</b>	System shall be able to provide the facility to add new job seeker account.	Low
<b>FR-18.</b>	System shall be able to provide the facility to suspend the account of any job seeker for a specific time (in days).	Medium
<b>FR-19.</b>	System shall be able to provide the facility to block the account of job seeker.	Medium
<b>FR-20.</b>	System shall be able to provide the facility to delete the account of job seeker.	Medium
<b>FR-21.</b>	System shall be able to provide the facility to check the transection record of job seeker.	Low
<b>FR-22.</b>	System shall be able to provide the facility to search data from records.	High
<b>FR-23.</b>	System shall be able to provide the facility to apply filters/checks of record search.	Medium
<b>FR-24.</b>	System shall be able to provide the facility to generate reports of record. (daily, weekly, monthly)	High

<b>FR-25.</b>	System shall be able to provide the facility to print the generated reports.	Medium
<b>FR-26.</b>	System shall be able to provide the facility to view the reported users accounts.	Low
<b>FR-27.</b>	System shall be able to provide the facility to block account of reported users.	Low
<b>FR-28.</b>	System shall be able to provide the facility to view feedback of the users.	Medium
<b>FR-29.</b>	System shall be able to provide the facility to view complaints of users.	Medium
<b>FR-30.</b>	System shall be able to provide the facility to reply the complaints of users.	Medium
<b>FR-31.</b>	System shall be able to provide the facility to logout from the system.	High

#### 4.3.2 Visitor

Sr. No.	Description	Priority
<b>FR-32.</b>	System shall be able to provide the facility to view available jobs.	High
<b>FR-33.</b>	System shall be able to provide the facility to search job opportunities.	Medium
<b>FR-34.</b>	System shall be able to provide the facility to apply filters/checks on job search.	Medium
<b>FR-35.</b>	System shall be able to provide the facility to view job posting companies.	Low
<b>FR-36.</b>	System shall be able to provide the facility to follow the companies.	Medium
<b>FR-37.</b>	System shall be able to provide the facility to contact the support team of the system.	Low
<b>FR-38.</b>	System shall be able to provide the facility to add complaint for system errors.	Low
<b>FR-39.</b>	System shall be able to provide the facility to view the details of any job post.	High
<b>FR-40.</b>	System shall be able to provide the facility to view the total jobs available of any category.	Medium
<b>FR-41.</b>	System shall be able to provide the facility to chat with chatbot.	Medium
<b>FR-42.</b>	System shall be able to provide the facility to view the about of our application/system.	Low
<b>FR-43.</b>	System shall be able to provide the facility to view the details of our collaborations with other companies.	Low

### 4.3.3 Manager/Employee

Sr. No.	Description	Priority
<b>FR-44.</b>	System shall be able to provide the facility to login to the application.	High
<b>FR-45.</b>	System shall be able to provide the facility to verify user by verifying code.	High
<b>FR-46.</b>	System shall be able to provide the facility to register to the application.	High
<b>FR-47.</b>	System shall be able to provide the facility to verify the user authenticity through email.	High
<b>FR-48.</b>	System shall be able to provide the facility to reset the account's password.	Medium
<b>FR-49.</b>	System shall be able to provide the facility to view his/her own profile.	Medium
<b>FR-50.</b>	System shall be able to provide the facility to add organization to his/her profile.	High
<b>FR-51.</b>	System shall be able to provide the facility to update his/her profile data.	Low
<b>FR-52.</b>	System shall be able to provide the facility to add profile picture.	Low
<b>FR-53.</b>	System shall be able to provide the facility to add new job post.	High
<b>FR-54.</b>	System shall be able to provide the facility to specify the region of job post.	Medium
<b>FR-55.</b>	System shall be able to provide the facility to promote the job opportunity.	High
<b>FR-56.</b>	System shall be able to provide the facility to first time free promotion for one post.	Medium
<b>FR-57.</b>	System shall be able to provide the facility to add payment method for promotions.	High
<b>FR-58.</b>	System shall be able to provide the facility to verify added payment method.	High
<b>FR-59.</b>	System shall be able to provide the facility to subscribe for premium version.	High
<b>FR-60.</b>	System shall be able to provide the facility to add payment for job promotion.	High
<b>FR-61.</b>	System shall be able to provide the facility to confirm payment for promotion.	High
<b>FR-62.</b>	System shall be able to provide the facility to view all applications received for each job.	High
<b>FR-63.</b>	System shall be able to provide the facility to search an application form all received applications.	Medium

<b>FR-64.</b>	System shall be able to provide the facility to apply filters on applications.	Medium
<b>FR-65.</b>	System shall be able to provide the facility to view details of any from all received application.	Medium
<b>FR-66.</b>	System shall be able to provide the facility to download resume/ intro_video.	Low
<b>FR-67.</b>	System shall be able to provide the facility to change the status of application.	High
<b>FR-68.</b>	System shall be able to provide the facility to sort applications (most suitable on top).	Medium
<b>FR-69.</b>	System shall be able to provide the facility to delete the received applications.	Low
<b>FR-70.</b>	System shall be able to provide the facility to send message to applicants.	Low
<b>FR-71.</b>	System shall be able to provide the facility to ask for more requirements.	Low
<b>FR-72.</b>	System shall be able to provide the facility to get notifications.	High
<b>FR-73.</b>	System shall be able to provide the facility to chat with other users.	Medium
<b>FR-74.</b>	System shall be able to provide the facility to close a job post.	High
<b>FR-75.</b>	System shall be able to provide the facility to update posted job information.	Medium
<b>FR-76.</b>	System shall be able to provide the facility to change the required skill set.	Low
<b>FR-77.</b>	System shall be able to provide the facility to report account of any other user.	Medium
<b>FR-78.</b>	System shall be able to provide the facility to complaints for system error.	Low
<b>FR-79.</b>	System shall be able to provide the facility to logout from system.	High

#### 4.3.4 Job Seeker

Sr. No.	Description	Priority
<b>FR-80.</b>	System shall be able to provide the facility to register to the application.	High
<b>FR-81.</b>	System shall be able to provide the facility to verify user's account through email.	High
<b>FR-82.</b>	System shall be able to provide the facility to login to the application.	High
<b>FR-83.</b>	System shall be able to provide the facility to authenticate user by code verification.	High
<b>FR-84.</b>	System shall be able to provide the facility to reset account password.	Medium

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<b>FR-85.</b>	System shall be able to provide the facility to view his/her own profile.	High
<b>FR-86.</b>	System shall be able to provide the facility to add profile picture.	Low
<b>FR-87.</b>	System shall be able to provide the facility to update profile information.	Low
<b>FR-88.</b>	System shall be able to provide the facility to view job post in the feed.	High
<b>FR-89.</b>	System shall be able to provide the facility to apply filters on job post.	Medium
<b>FR-90.</b>	System shall be able to provide the facility to search job opportunity.	High
<b>FR-91.</b>	System shall be able to provide the facility to save any job post to saved jobs list.	Medium
<b>FR-92.</b>	System shall be able to provide the facility to search company by name.	Low
<b>FR-93.</b>	System shall be able to provide the facility to compare job offers of two companies.	Low
<b>FR-94.</b>	System shall be able to provide the facility to calculate salary according to offer.	Medium
<b>FR-95.</b>	System shall be able to provide the facility to follow a company.	Low
<b>FR-96.</b>	System shall be able to provide the facility to apply for job.	High
<b>FR-97.</b>	System shall be able to provide the facility to create a resume for job.	High
<b>FR-98.</b>	System shall be able to provide the facility to select one of multiple created resumes.	Medium
<b>FR-99.</b>	System shall be able to provide the facility to upload resume.	High
<b>FR-100.</b>	System shall be able to provide the facility to upload intro_video.	High
<b>FR-101.</b>	System shall be able to provide the facility to upload experience certificates or documents.	Low
<b>FR-102.</b>	System shall be able to provide the facility to view recent visited history.	Low
<b>FR-103.</b>	System shall be able to provide the facility to view all submitted applications.	High
<b>FR-104.</b>	System shall be able to provide the facility to update the information of his/her own submitted application.	Low
<b>FR-105.</b>	System shall be able to provide the facility to cancel the submitted application.	Medium
<b>FR-106.</b>	System shall be able to provide the facility to view the status of his/her own submitted application.	High



<b>FR-107.</b>	System shall be able to provide the facility to view the top promoted job post.	Medium
<b>FR-108.</b>	System shall be able to provide the facility to subscribe premium version to view the highest suitable jobs.	Medium
<b>FR-109.</b>	System shall be able to provide the facility to check the job recommendations by system.	Medium
<b>FR-110.</b>	System shall be able to provide the facility to chat with other users.	High
<b>FR-111.</b>	System shall be able to provide the facility to block account of another user.	Medium
<b>FR-112.</b>	System shall be able to provide the facility to report account of any other user.	Medium
<b>FR-113.</b>	System shall be able to provide the facility to report a false job post.	High
<b>FR-114.</b>	System shall be able to provide the facility to view notifications.	High
<b>FR-115.</b>	System shall be able to provide the facility to change account password.	Low
<b>FR-116.</b>	System shall be able to provide the facility to logout from system.	High

## **4.4 Non- Functional Requirements**

### **4.4.1 Usability**

- It must have a user-friendly interface in which users can clearly identify the buttons, links and controllers of the system.
- System will have capability to award points to the resume on the bases of their matching with job requirements and also be able to sort resumes from highest match at top and lowest match at bottom.
- System should also be conscious and look for duplicates, offensive languages in the fake jobs, and users who go against policy.
- The system shall provide a uniform look and feel between all the web pages.
- System should be logging user actions for improving its working through machine learning. Logging includes search queries, jobs visited, documents added, documents visited, time of visit, and length of visit.

### **4.4.2 Responsiveness**

- System will have a responsive user interface for all deices and browsers.

#### **4.4.3 Performance**

- System must response to user action within one second to minimize the latency and speed up the process.
- System must update change in state according to transection at real time (2 sec maximum).

#### **4.4.4 Security**

- It must have protected data transactions because the whole system structure is dependent on data and any kind of manipulation with data can create greater hassle for management of the system.
- The system shall not leave any cookies on the user's computer containing the user's password.
- The system shall use secure sockets in all transactions that include any confidential user information.
- System should not allow access to information outside of the user's privacy scope.
- The system's back-end servers shall never display a customer's password. The user's password may be reset but never shown.
- The system's back-end servers shall only be accessible to authenticated administrators.
- The system's back-end databases shall be encrypted.

#### **4.4.5 Availability**

- Customer should be able to customize and purchase order 24 hours per day, 7 days a week, 365 days a year (99% of the time.), except during web site updates or maintenance.

#### **4.4.6 Maintainability**

- System should be easy to make changes at code level and code should be well refactored.

#### **4.4.7 Expendability**

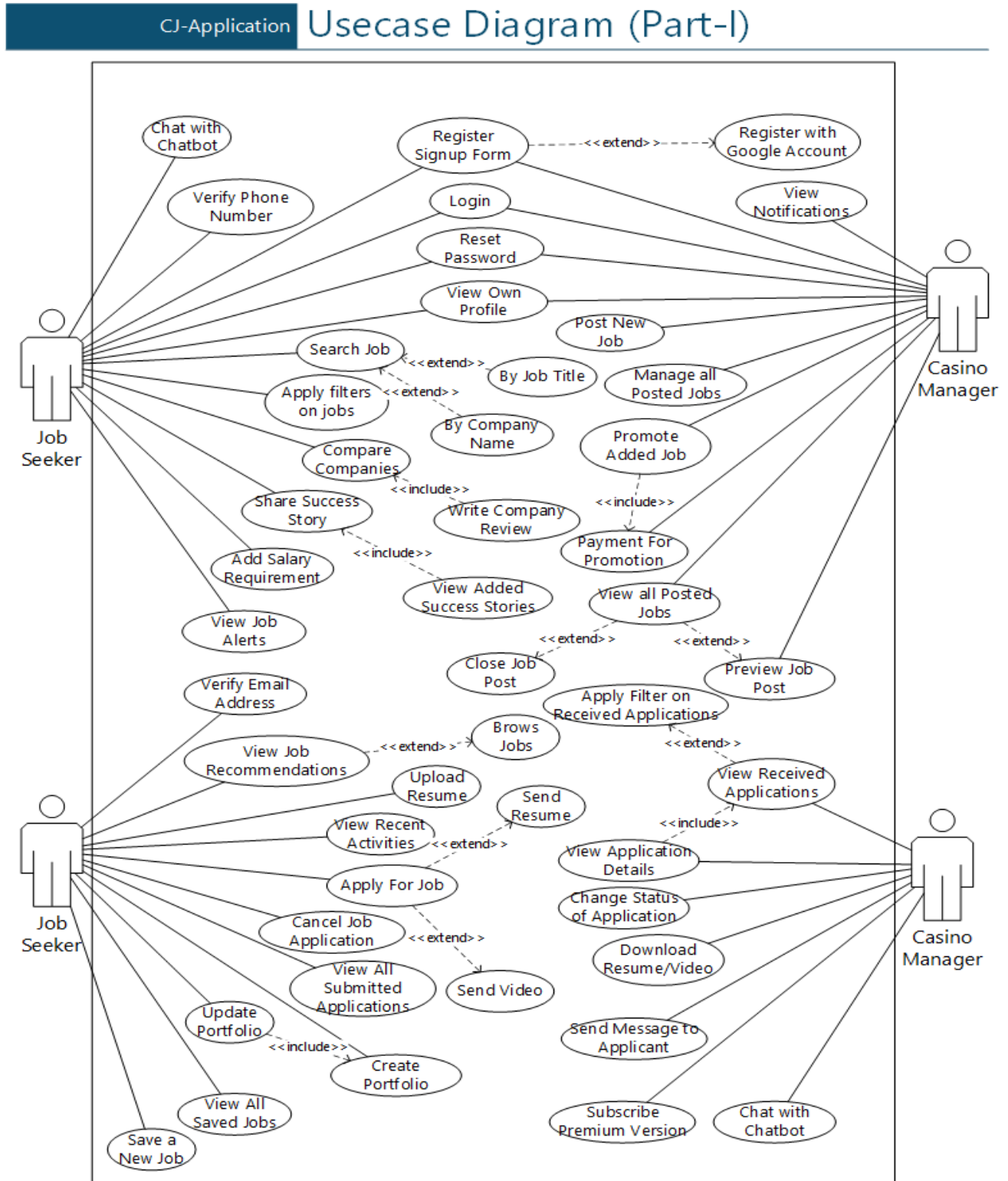
- System should have the capability to add new features and new words in its dictionary.

#### **4.4.8 Integrity**

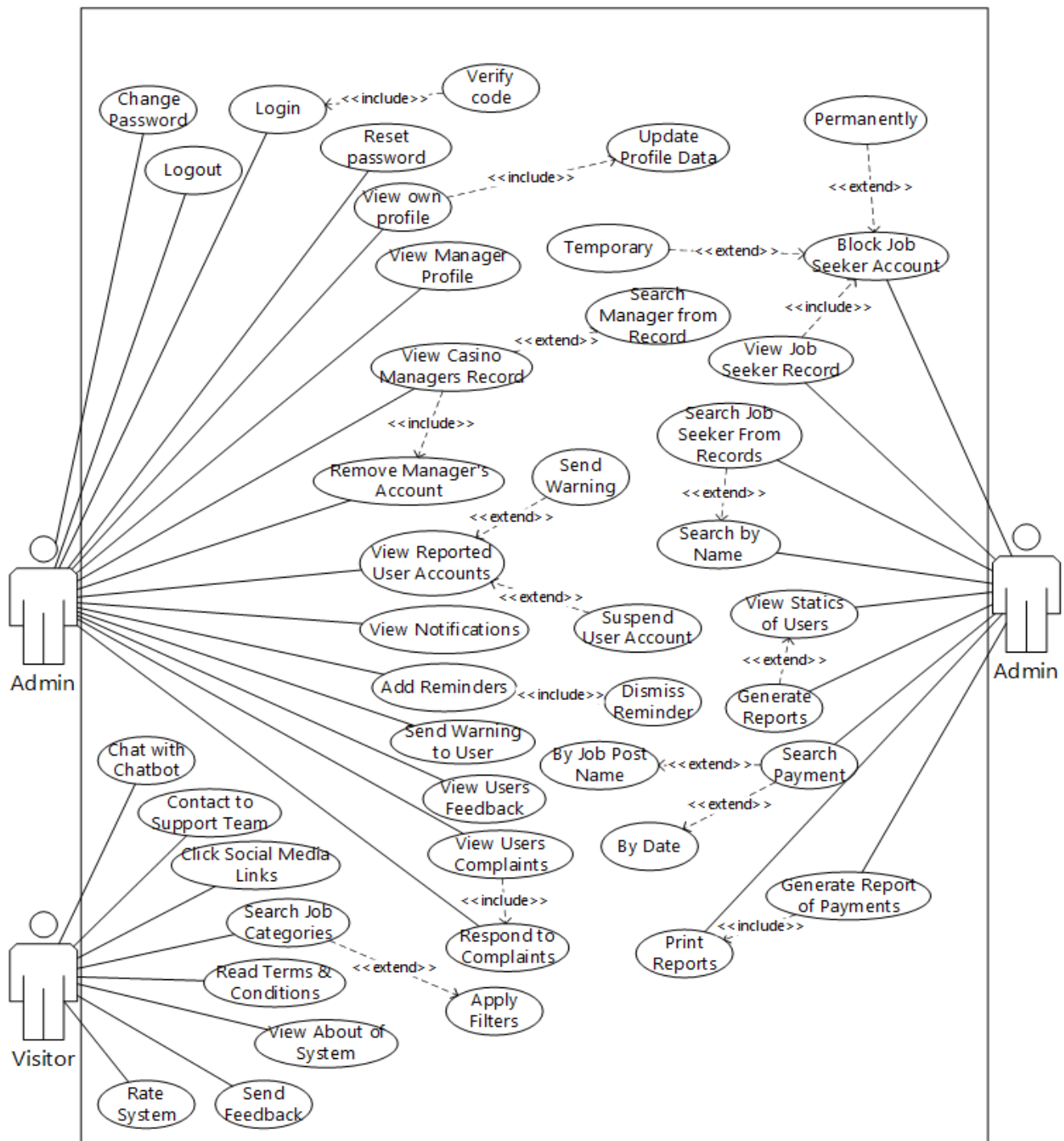
- System should have the capability to integrate with other software systems or modules and data transections must be handled between the modules of both systems.

## 5. System Design Diagrams

### 5.1 Usecase Diagram



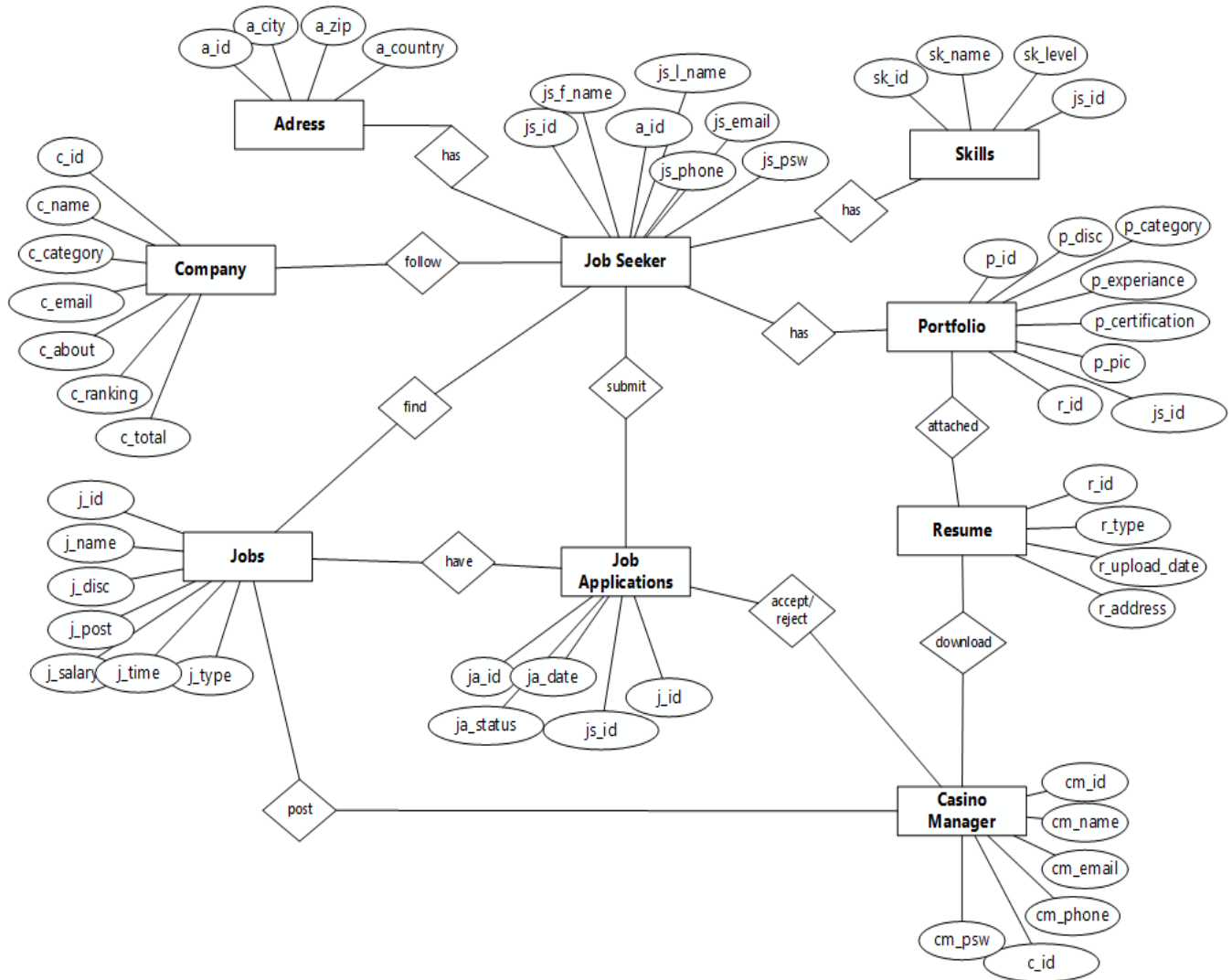
## CJ-Application Usecase Diagram (Part-II)



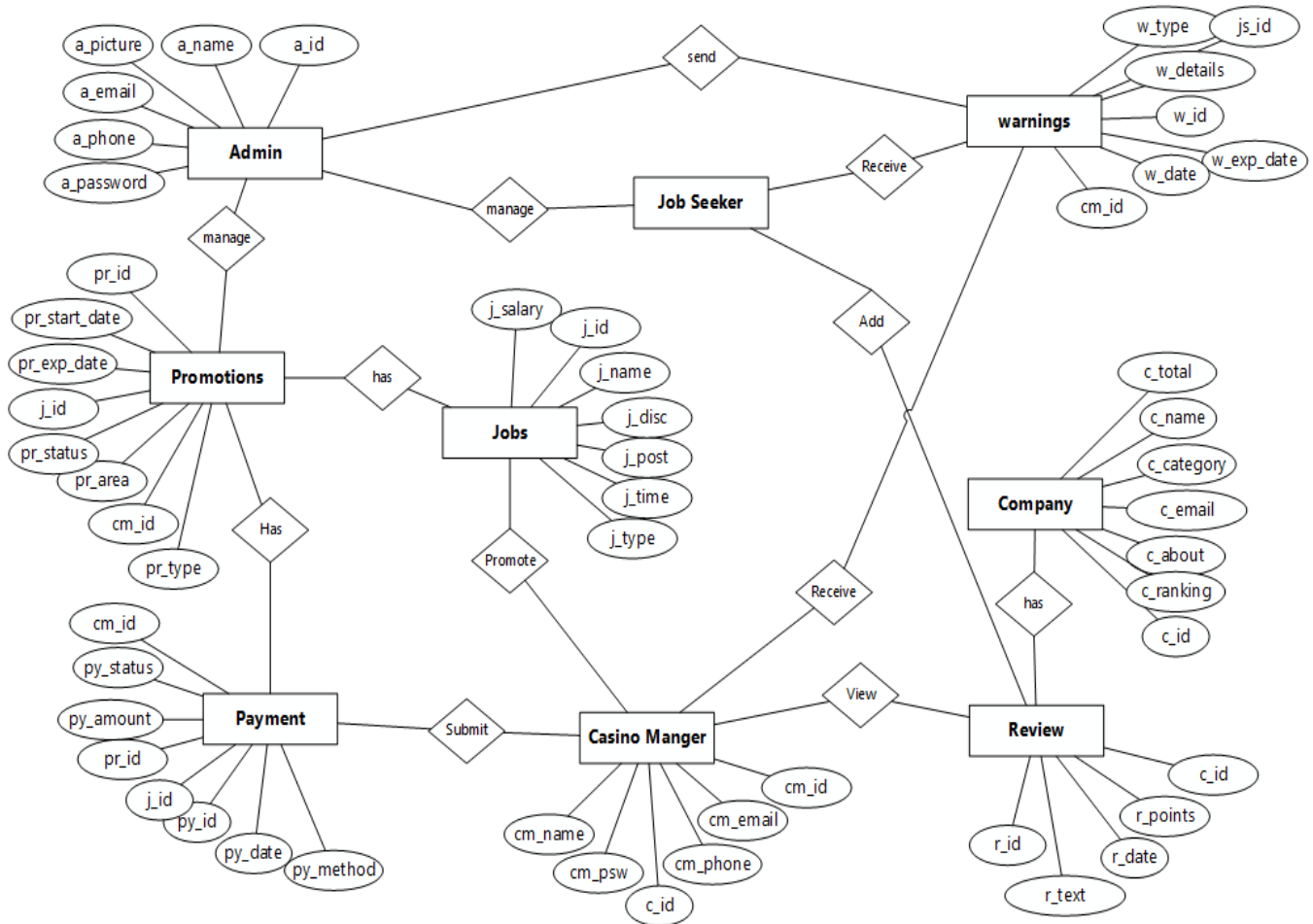
**Usecase Diagram:** Usecase Diagram of the system explains the interlinks of functionalities. It provides the information that which functionalities are independent or which ones are dependent on others.

## 5.2 Entity Relationship Diagram

### CJ-Application ER Diagram (Part-I)



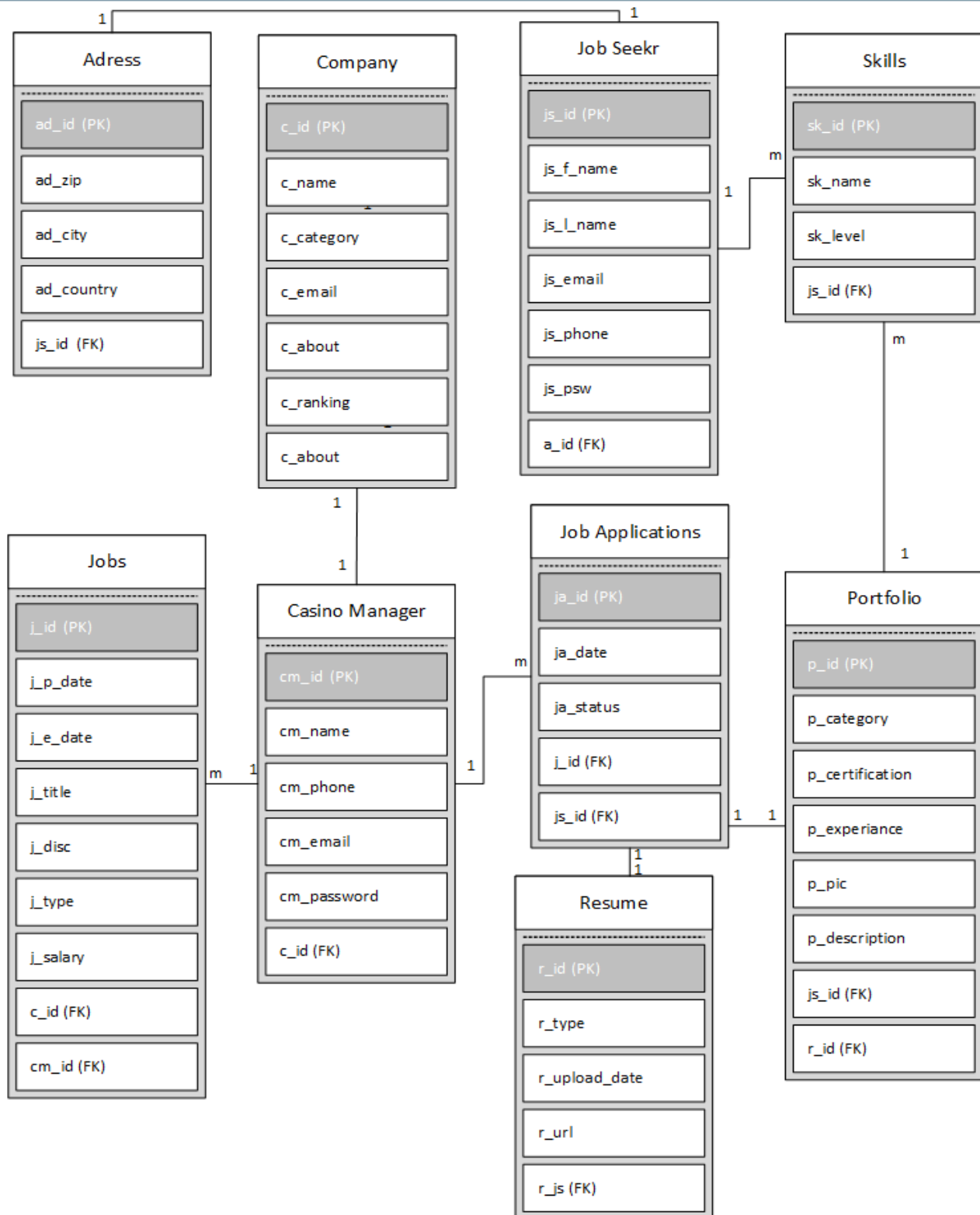
## CJ-Application ER Diagram (Part-II)

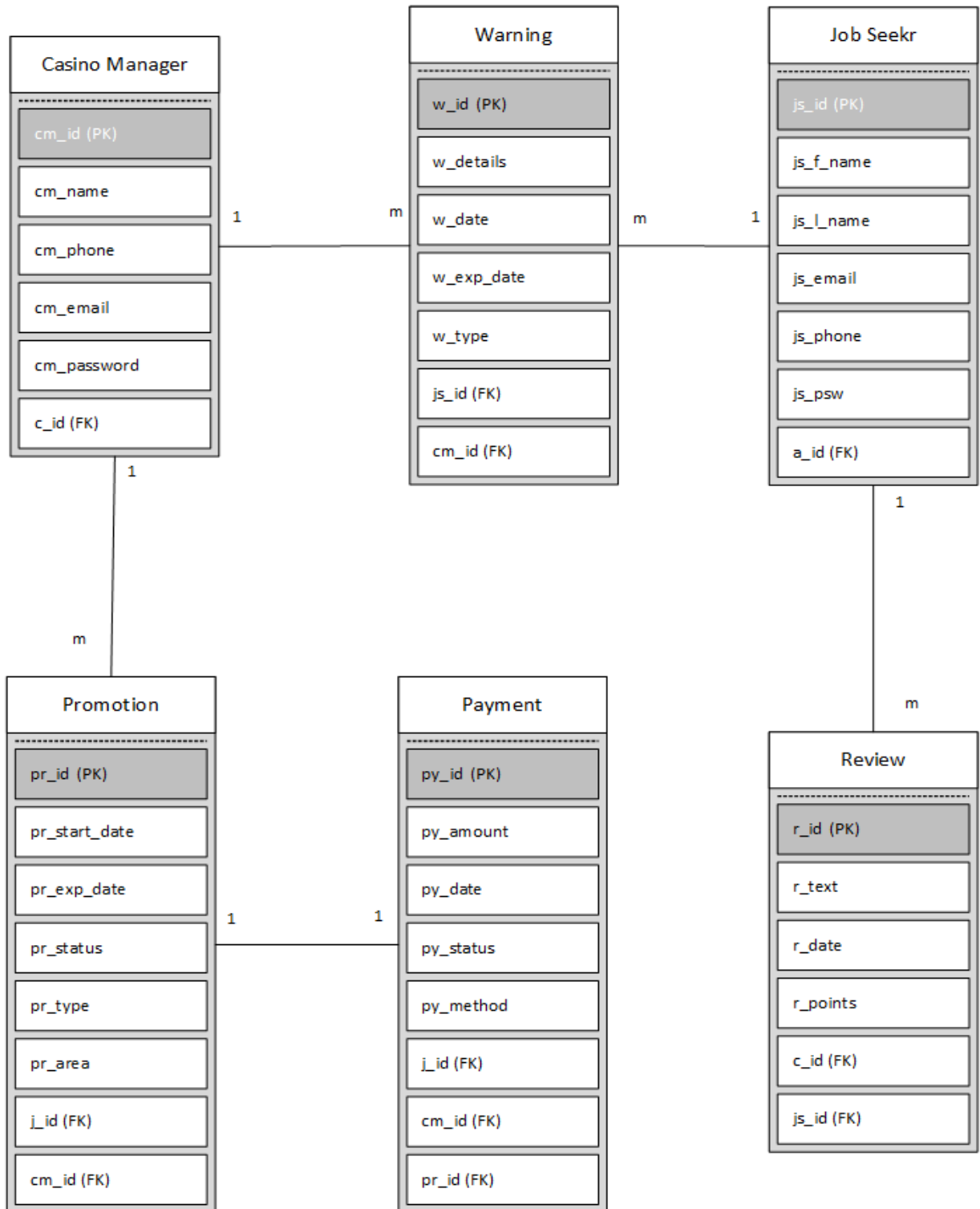


**ER Diagram:** Entity Relationship Diagram of the system provides the information about all entities and their attributes involved in the system. It also gives the knowledge of relationships among entities.

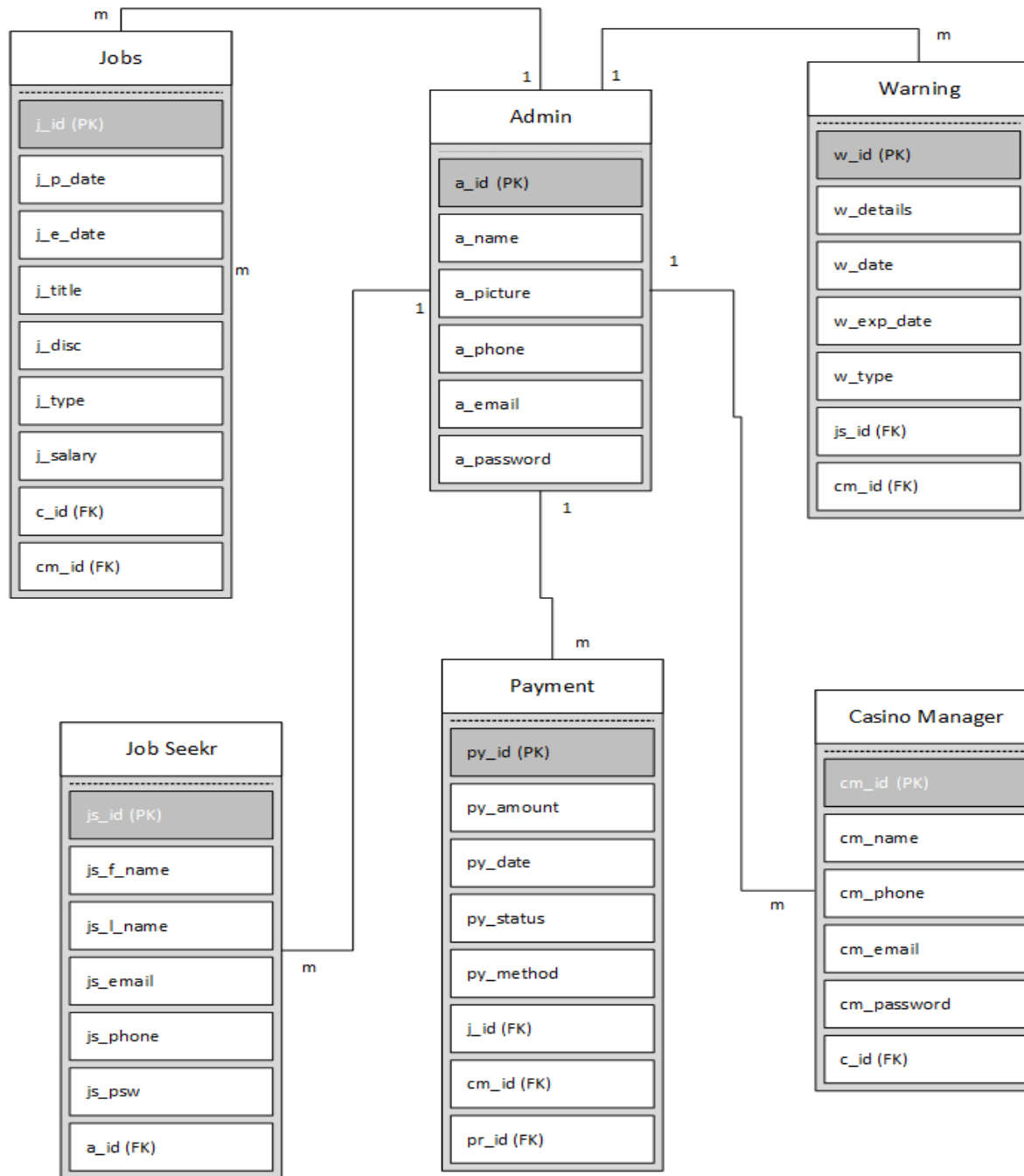
### 5.3 Database Model Diagram

## Database Model Diagram (Part-I)







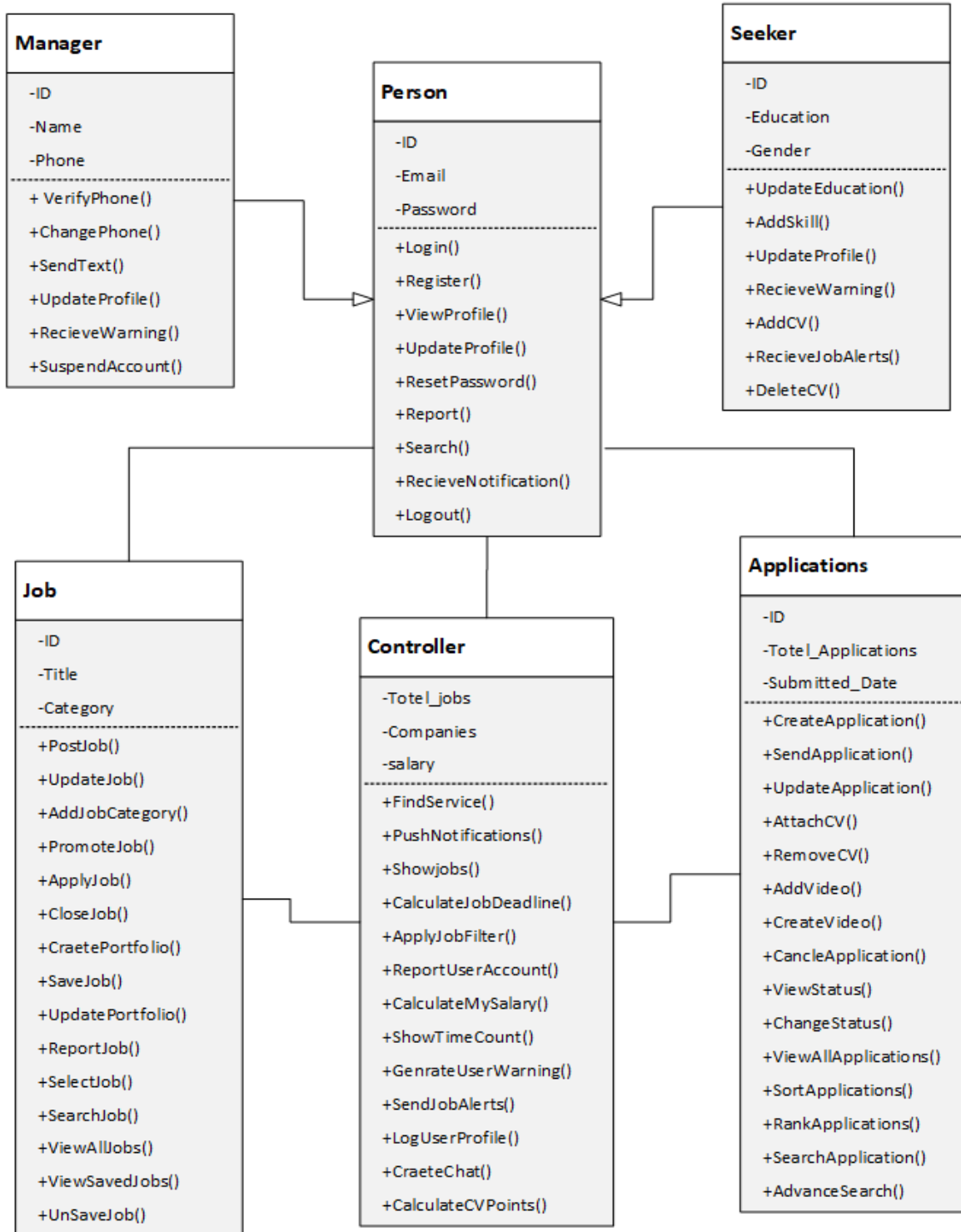


**Database Model Diagram:** Database Model Diagram of the system provides the information about the database elements of the system. It also provides the database structure in form of data tables.

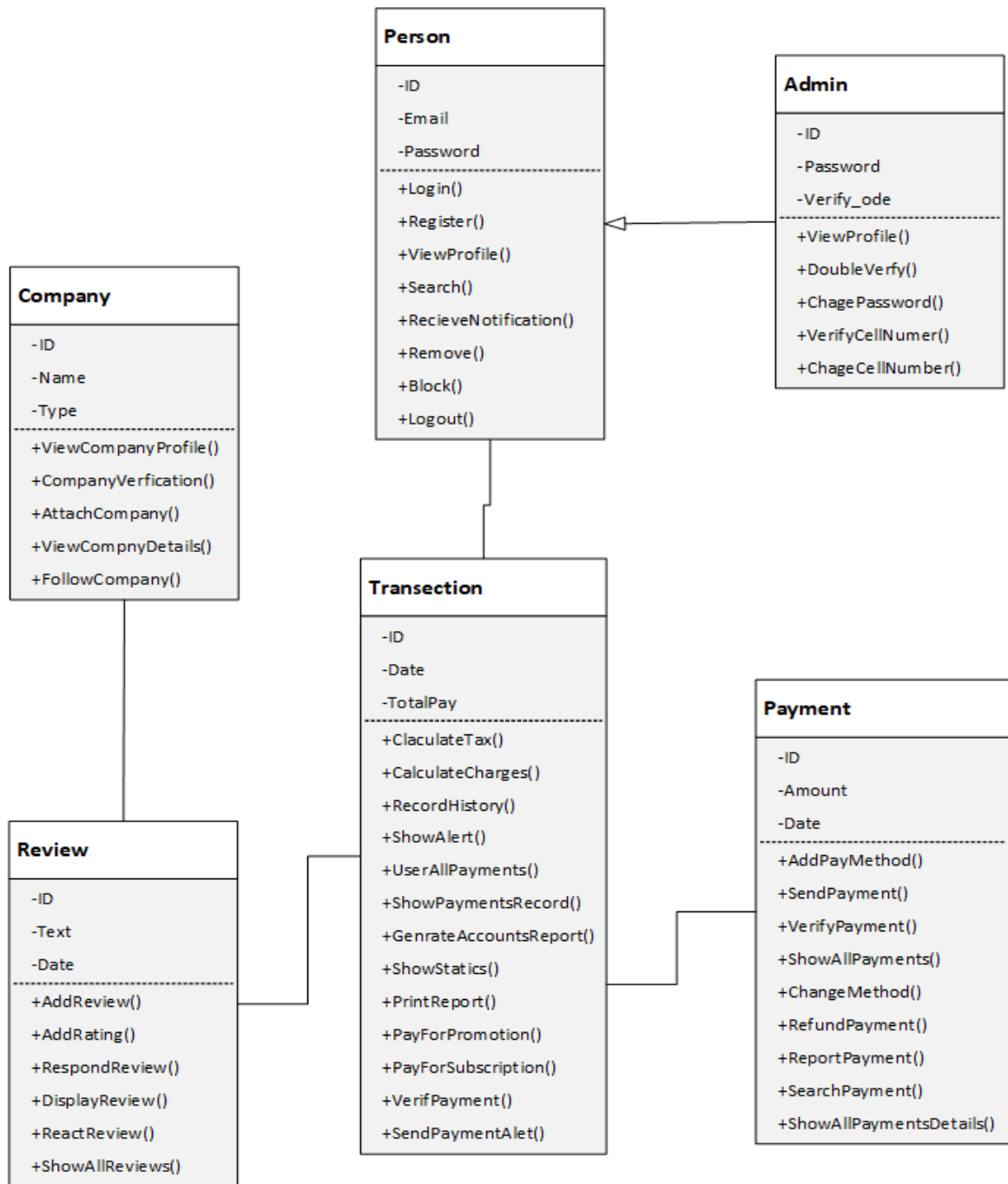
## 5.4 UML Class Diagram

CJ-Application

### UML Class Diagram (Part-I)



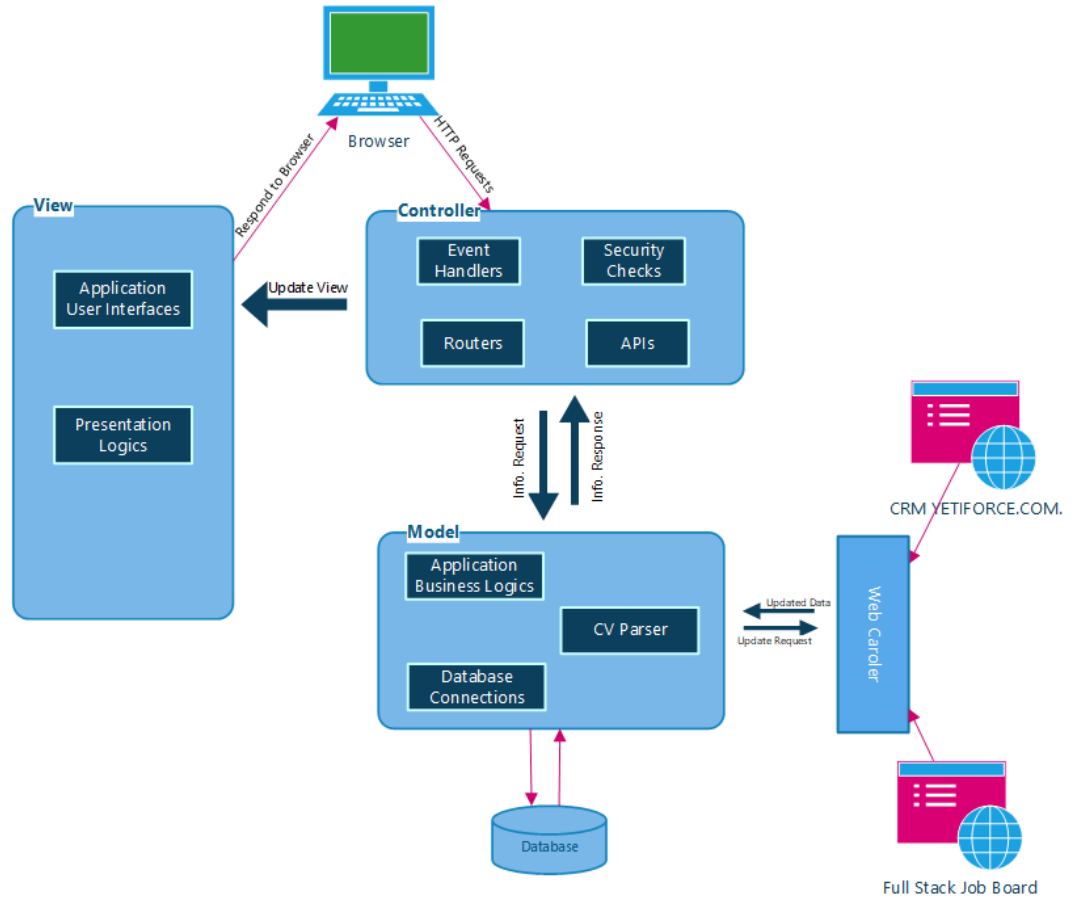
## CJ-Application UML Class Diagram (Part-II)



**Class Diagram:** UML Class Diagram of the system provides the information about backend classes and functions of each class. It explains the business logics and backend intelligence of the system.

## 5.5 Architecture Diagram

### CJ-Application Architecture Diagram



**Architecture Diagram:** Architecture Diagram of the system provides the information about overall structure of the application. It also explains the dataflows of the system.