

GTU Department of Computer Engineering

CSE 222/505 - Spring 2021

Project Final Report: Group 1

Human Resources Consultancy

25.06.2021

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1. Group Members

141044083	Esra Sert
171044100	Enis Yalçın
1801042601	Baran Solmaz
1801042656	Süleyman Gölbol
151044063	Refik Orkun Arslan
1801042674	Ahmet Furkan Kurban
1801042634	Muhammed Oğuz
141044003	Ayşenur Ellü
215008003020	Ali Çakıcı

2. Problem Definition

The most valuable asset for a company is the employees of the company that will help to achieve the company's goals. Finding suitable employees for the job and the company is one of the biggest challenges that IT companies are facing today. Human resource consultancy firms are focusing on this problem. They help companies to find the best employee candidate for the job requirements.

This project is based on the problems faced by human resources consulting firms. The automation system will be able to provide various features for the companies but also for the candidates.

The automation system helps to find the right and qualified person for the work. Companies in search of employees can start to benefit from consultancy by registering to the automation system. The company which prepares the employee requirements and job application form they are looking for, creates a new job advertisement to receive applications. Thus, the advertisement will be created for candidates who will/have been registered on the system. Candidates register to the system and fill in the necessary information before observing/applying to the jobs. At this point, both companies and candidates should be guided for best matching. The cruit team (human resources consultants) will handle the operations of the system by suggesting job offers to candidates and suggesting candidates to companies by their expectations.

Consequently, job advertisement and job applications will be operated automated and will be managed by the cruit team.

3. Users of The System

There are 4 users of the system:

3.1. Candidate:

Refers to the candidate who has made an application in search of a job. Candidates apply to jobs with his/her CV and expectation (such as salary, accommodation etc.)

- Sign up to the system
- Log in to the system
- Evaluate the offer.
- Give information
- See ratings
- Apply to advertisement
- Set status to open to work
- Rating the offer
- Add/Update CV

3.2. Human Resources Consultant - Cruit Team:

Refers to the employee of a consultancy who arranges company requests, offers and meetings between candidate and company.

- Log in to the system
- See company requests
- Give offer to candidate
- Suggest candidate to company
- Delete candidate
- Arrange meeting between candidate and company

3.3. Applicant company:

Refers to the company who has made an application in search of employee/s with specific requirements (such as technical requirements, salary, position etc.). Companies apply to Human Resources Consultant to find best qualified employees with specific ratios.

- Sign up to the system
- Log in to the system
- See suggested candidates
- Accept / Decline suggested candidates
- Advertise
- Rate employee

3.4. Admin:

Refers to the manager who is responsible for adding and removing employees from the system. Admin can see statistics of team and work, query candidates, employees and companies.

- Log in to the system
- Add/ Remove/ Update Human Resources
- Add/ Remove/ Update Company
- Add/ Remove/ Update Candidate
- ~~See statistics~~

4. Requirements

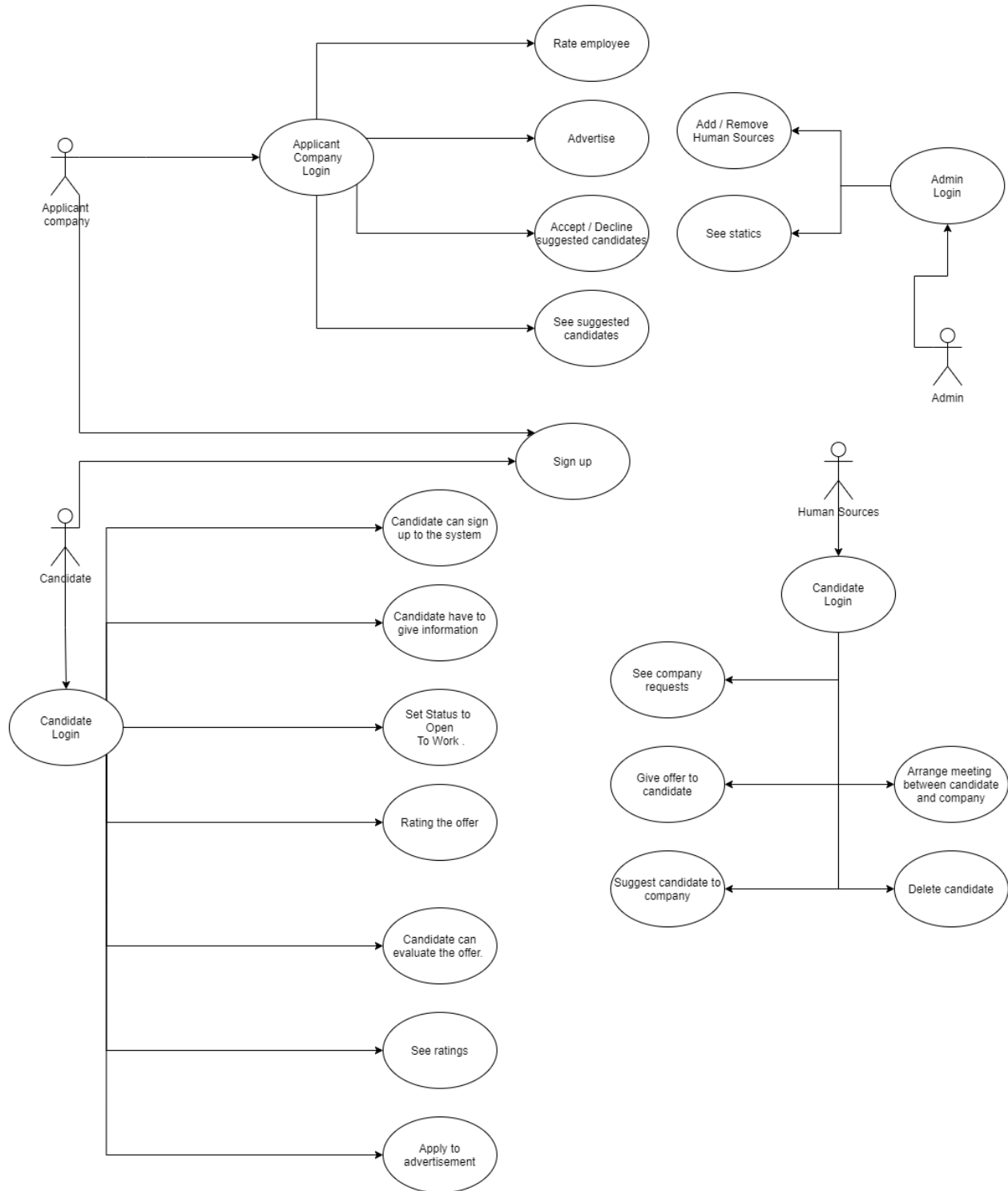
A. Functional Requirements:

- Candidates should be able to sign up to the system.
- Candidates should be able to log in to the system.
- Candidates should be able to evaluate the offer.
- Candidates should be able to give information.
- Candidates should be able to have seen ratings.
- Candidates should be able to rate the offers.
- Candidates should be able to apply to advertisement.
- Candidates should be able to set status to open to work.
- Candidates should be able to add/update their CV.
- Candidates should be able to update their password.
- Human resources should be able to log in to the system.
- Human resources should be able to see the request of each company.
- Human resources should be able to give offers to candidates for a company.
- Human resources should be able to suggest a candidate to the company.
- Human resources should be able to delete candidates from the system.
- Human resources should be able to arrange meetings.
- Human resources should be able to list all of the meetings.
- Applicant Companies should be able to see suggested candidates.
- Applicant Companies should be able to accept or decline suggested candidates.
- ~~• Applicant Companies should be able to rate their employees.~~
- Applicant Companies should be able to advertise.
- Applicant Companies should be able to list their advertisements.
- Admin should be able to add employees. (Human Resources, Company, Candidate)
- Admin should be able to remove employees. (Human Resources, Company, Candidate)
- ~~• Admin should be able to see statistics.~~

B. Non-Functional Requirements:

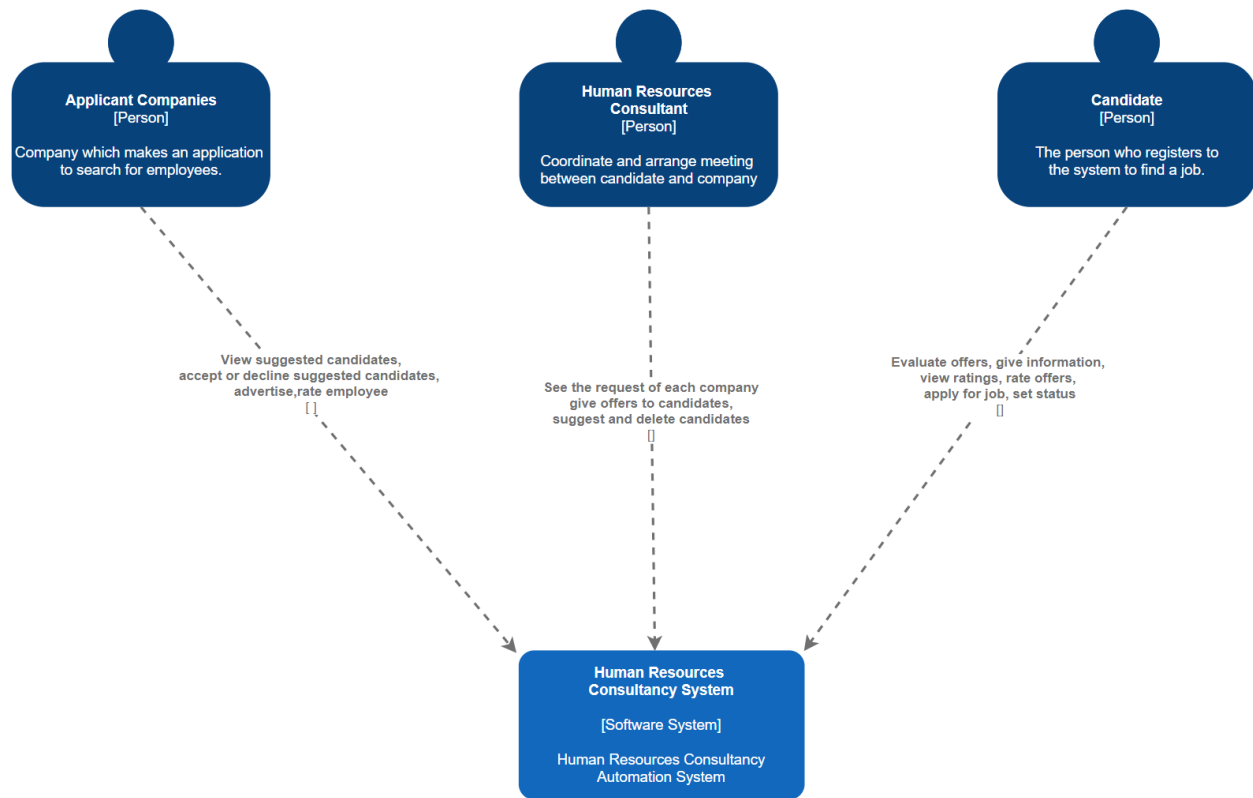
- Users can change the initially assigned login password after login for the first time.
- The system needs to be set up by the owner institution for the first time.
- The system performs the registration, user verification, job request , job evaluation and company request quickly and accurately.
- In terms of security, no one sees customer information except company employees and applicant companies.
- The system shall include a user authorisation procedure where users must identify themselves using a login name and password. Only users who are authorised in this way may access the system data.

5. Use-Case Diagrams

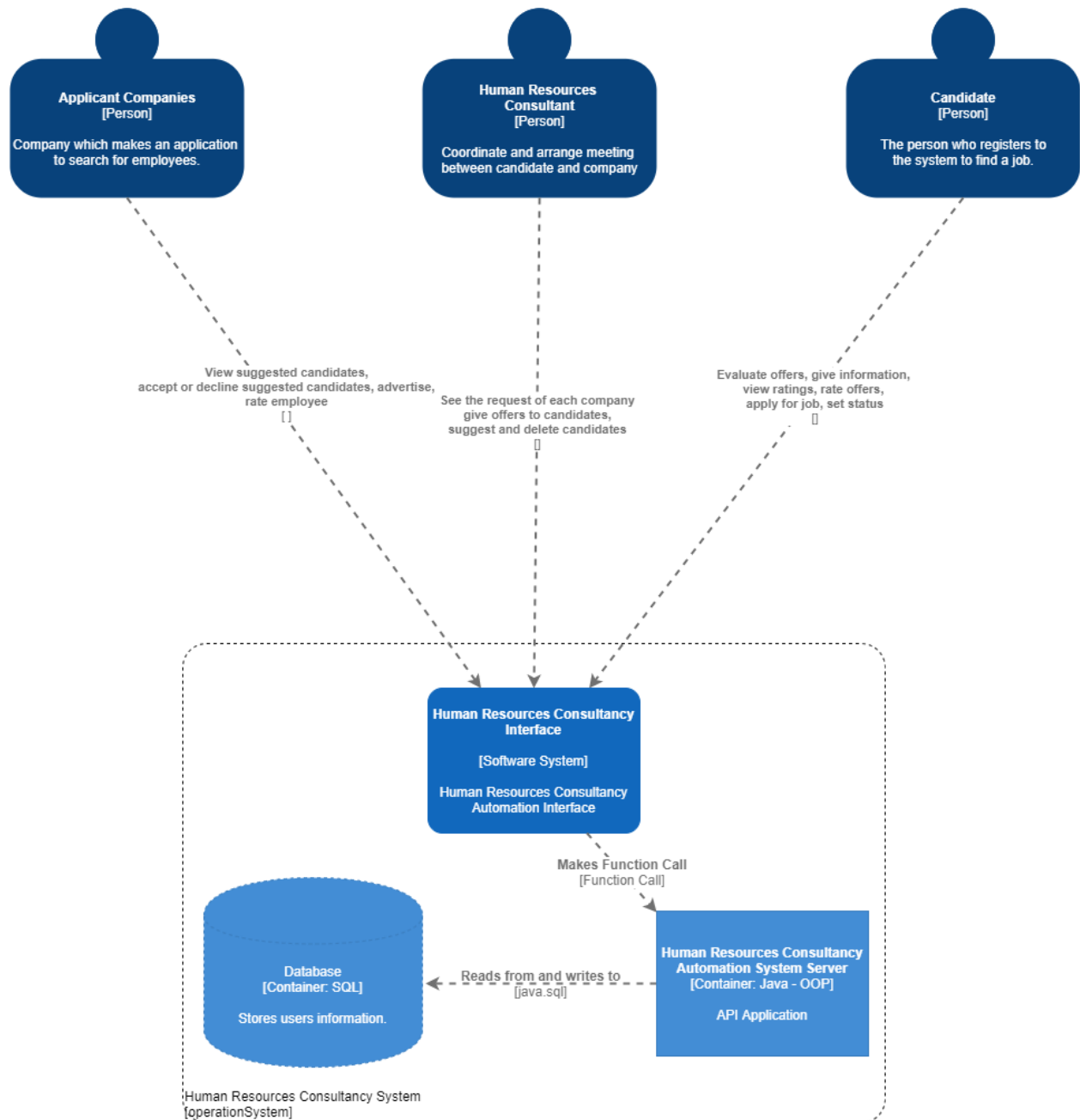


6. The C4 Model of The System

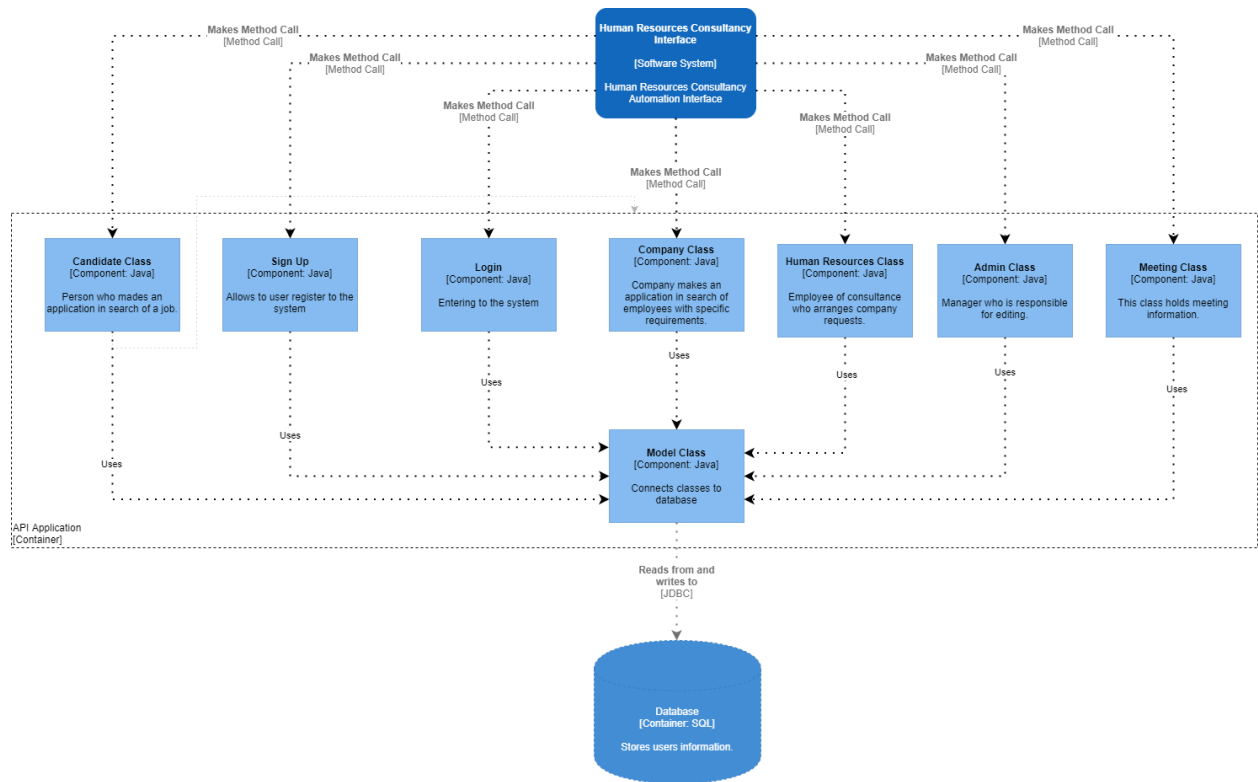
Level 1:



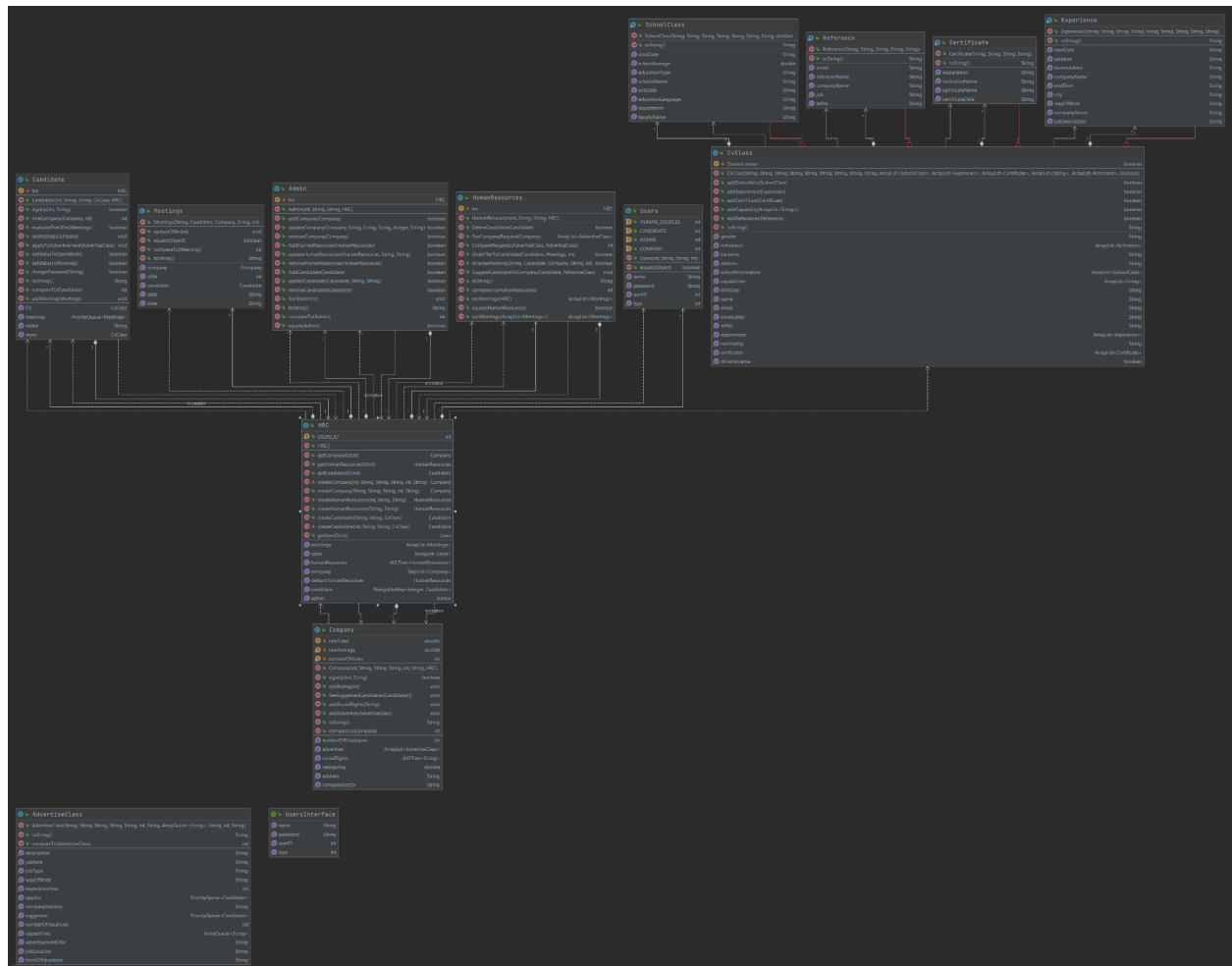
Level 2:



Level 3:



7. Class Diagram(UML)

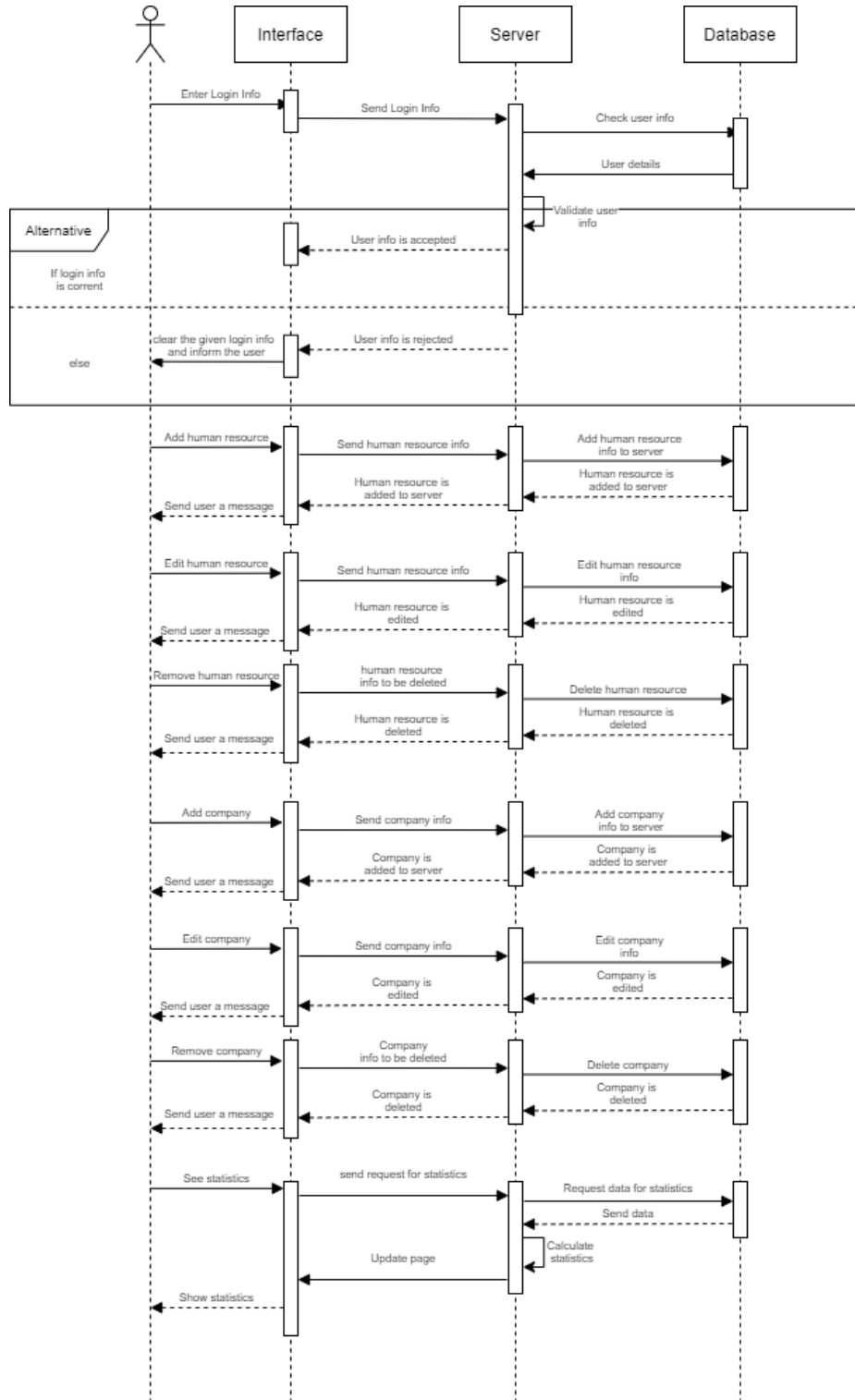


*Can be downloaded at high resolution:

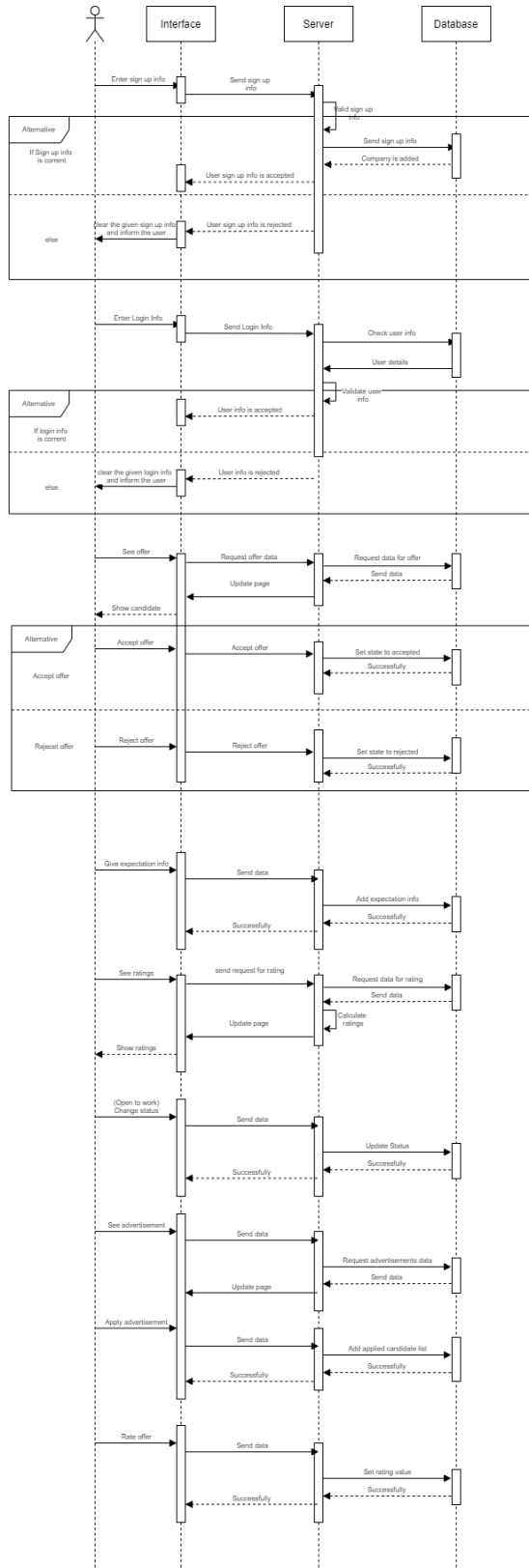
<https://drive.google.com/file/d/1ZB3iMgEaV7A44f7qtzQPDgrjBYTm1t6d/view?usp=sharing>

8. Sequence Diagrams

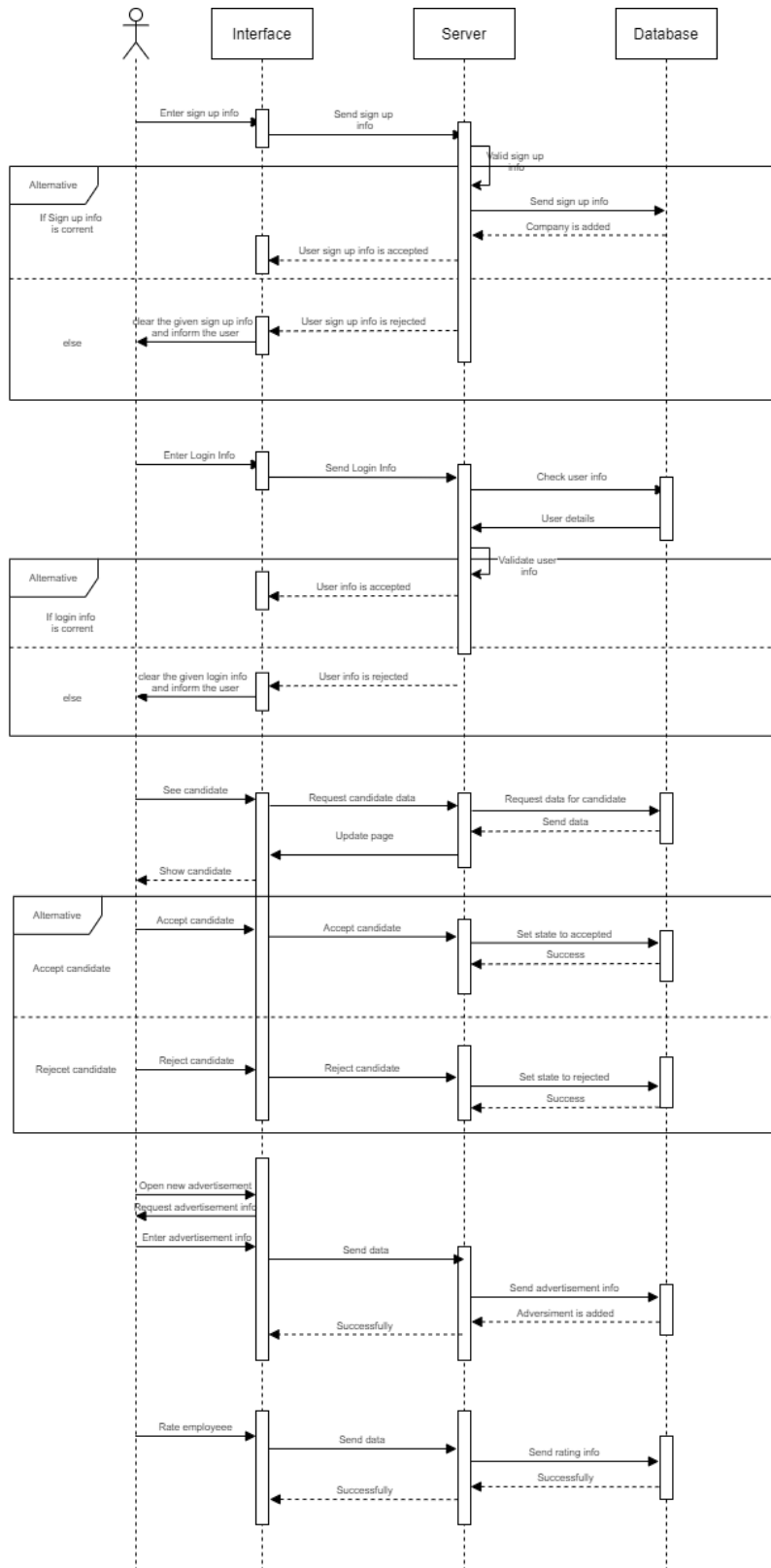
Admin Sequential Diagram



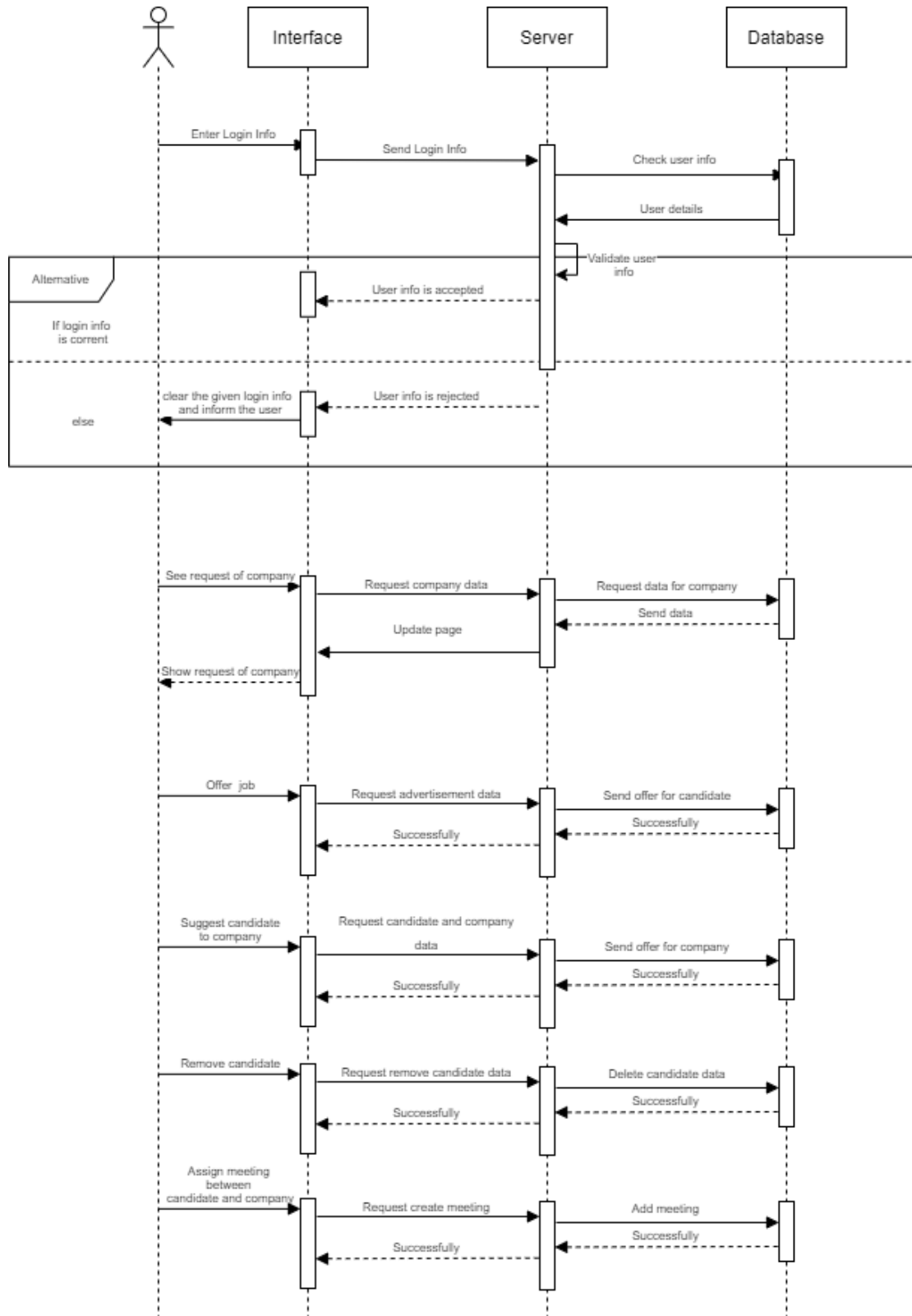
Candidate Sequential Diagram



Company Sequential Diagram

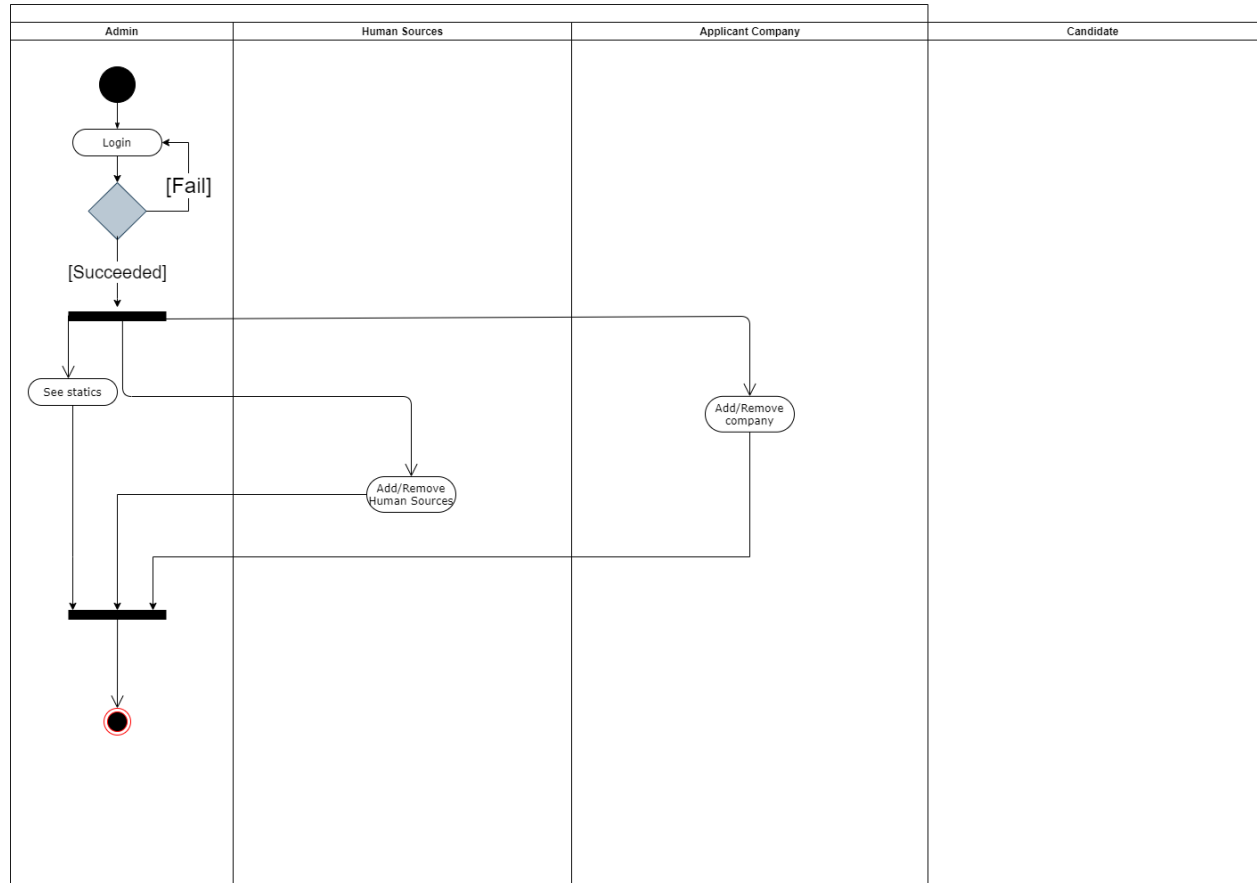


Human Resources Sequential Diagram

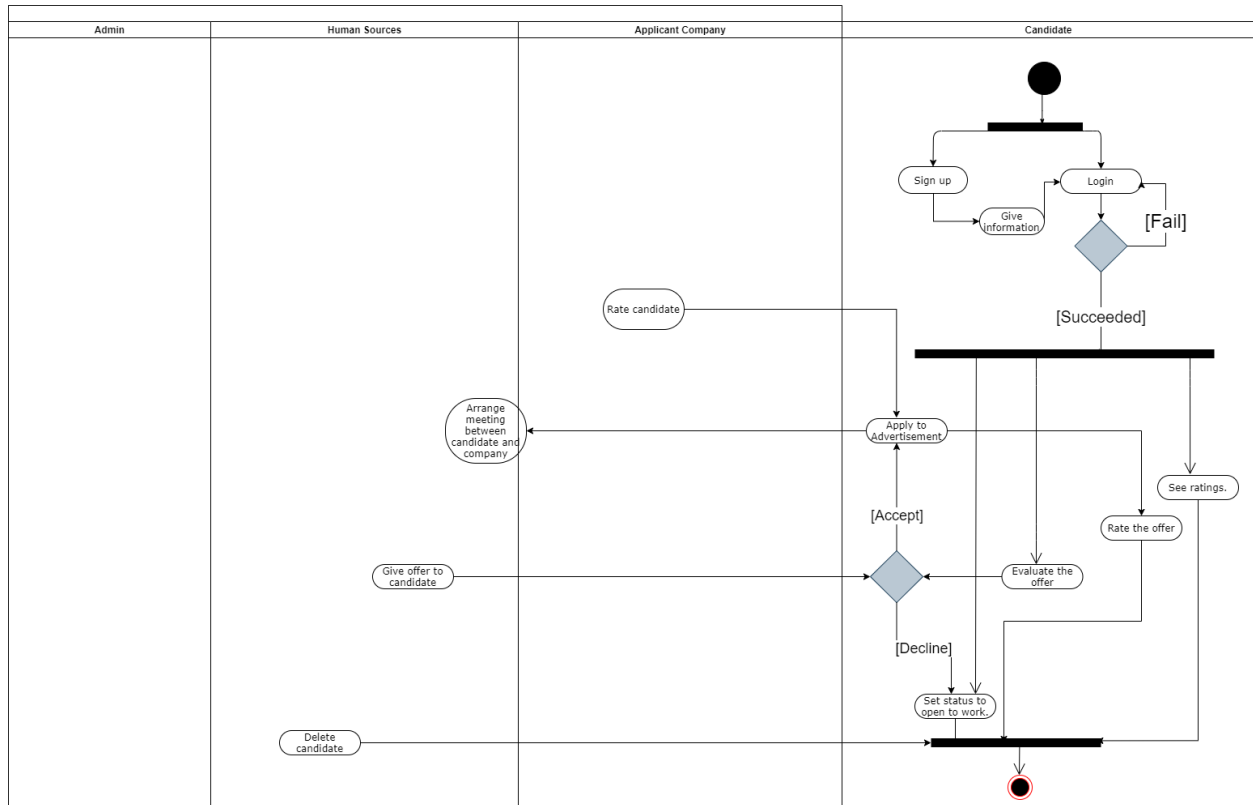


9. Activity Diagrams

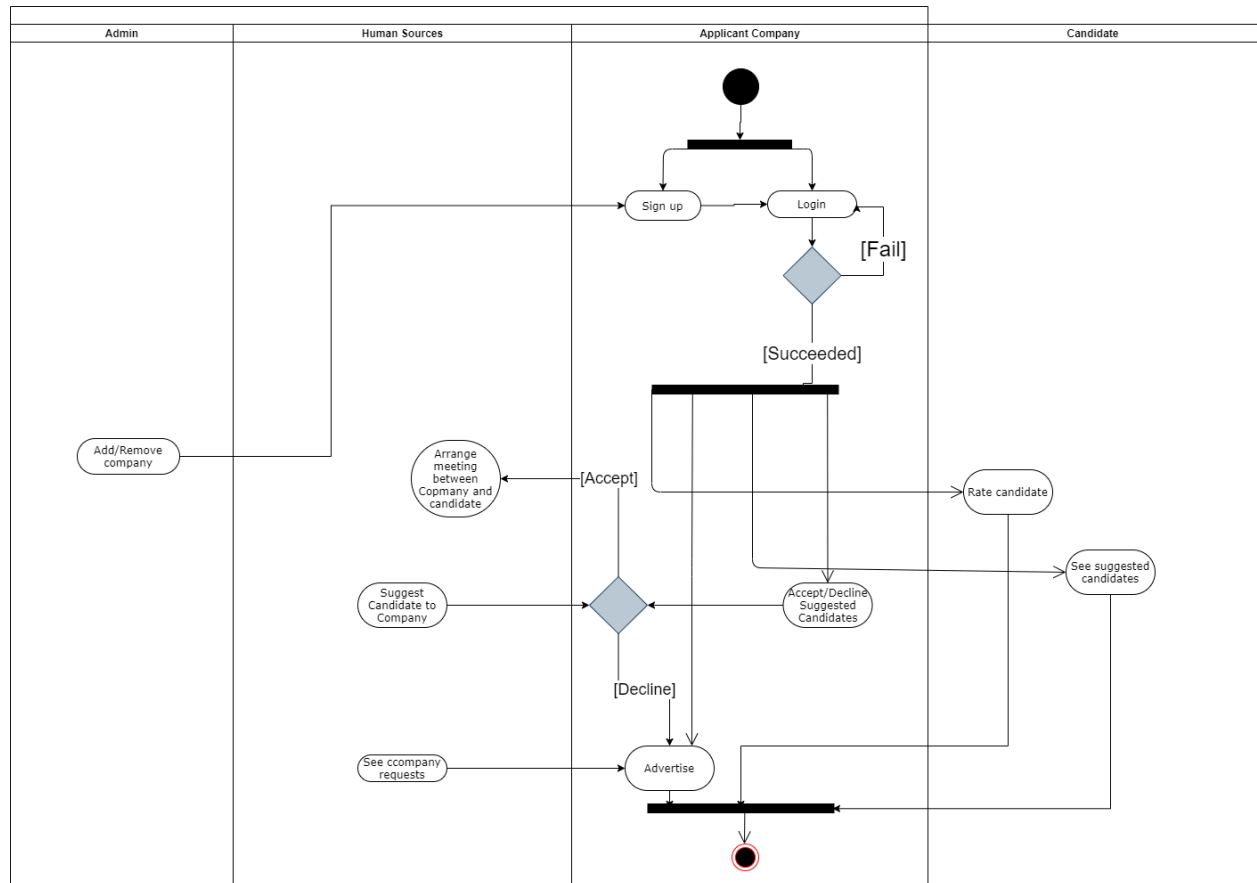
Admin Activity Diagrams



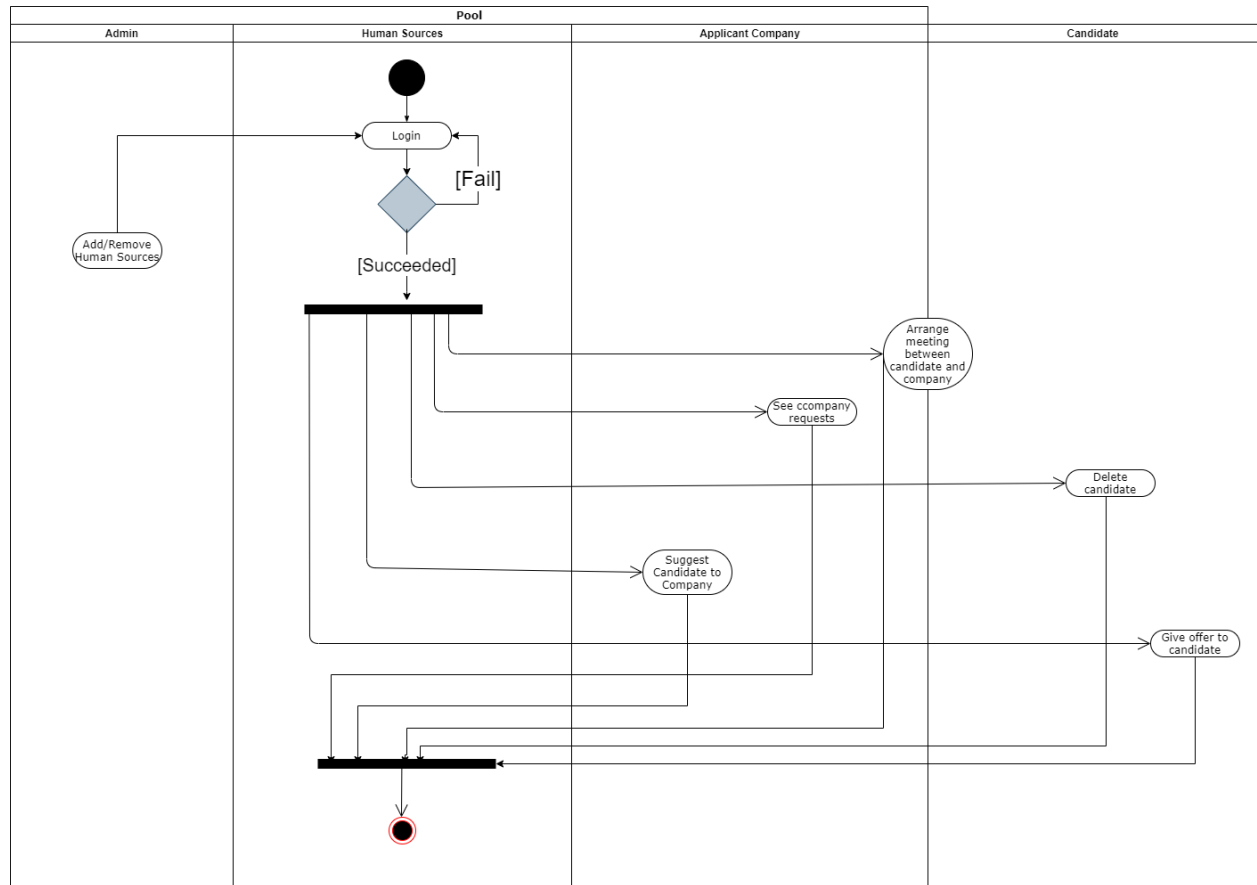
Candidate Activity Diagrams



Company Activity Diagrams



Human Resources Activity Diagram



10. Non-Trivial Implementation Details

Implementations in creating the class diagram:

The main class of the project(HRC) is used as a static object to access all values. Initial data structures are created and initialized in this class.

Classes designed to be comparable because all classes comparing each other

Implementations in creating the activity diagram:

The reason why the if else statement is less is that there are few places to use

Established according to the interaction between classes

Implementations in creating the sequence diagram:

Input output relationship between them is established according to their influence on each other.

Implementations due to instructions:

API section added to C4 model

Admin methods were updated due to revisions (Add/Remove Company)

Reasons to use the data structures :

1. ArrayList:

The reason for using the list(ArrayList) structure is that it is easy to add elements to it and to access elements with the get method. We select the places where we need to access and update frequently such as getting advertisements methods in menu.

2. Queue:

The queue structure used in advertisements to show the experienced first.

The reason that we choose to use the Priority Queue is to sort the experiences of candidates.

We use the Priority Queue Class to show the best offers to candidates in increasing order and also used in advertisements to suggest candidates to companies.

3. Set-Map:

Set- Map used in HRC class to quickly access candidates by user id. It allows us to access candidates immediately.

4. Sorting:

We used heap sort as a sorting algorithm to sort meetings. The reason for using heap sort has $O(n \log(n))$ even in the worst case. Also, the space complexity of Heap sort is $O(1)$.

5. Skip List:

We used it to be able to both search and add within companies.

6. Graph:

We used the graphic for the connection between the cities. Cities were used as vertices. The shortest path was calculated **using the dijkstra** algorithm method, then the intermediate path was calculated according to the candidate and company locations.

7. BBTS:

In the second project report, we use the binary search tree structure in order to find human resources easily. In the last implementation of the project, we used a Balanced Binary Search Tree to make the worst case as $O(\log n)$, not $O(n^2)$ like Binary Search Tree. We used AVL Tree class to implement a balanced binary search tree.

Class Explanations :

Admin Class:

No data structure is used in this class. Admin class takes hrc objects to reach hrc methods and objects easily and constructed with users features.

addCompany()=>It is used to take a company object and add to the company structures using hrc object..

updateCompany()=>It is used to take a company object and company features to change the given object features.

removeCompany()=>This delete the company from company structure using hrc object.

AddHumanResources()=>It is used to take a Human Resources object and add to the Human Resources structures using hrc object.

updateHumanResources()=>It is used to take a Human Resources object and name ,password to change the given object name and password.

removeHumanResources()=>This delete the Human Resources from Human Resources structure using hrc object.

removeCandidate()=>Remove given candidate object using userID from candidate structure using hrc object.

Advertise Class:

Advertise class is constructed with advertisement details like *job role, job type, location* etc. It keeps track of applications in 2 queues which are applied and suggested queues.

- We had used **priority queues** in this part to provide queuing *applicants* according to their *priorities* which will be a handful while showing *advertisements* to companies.
- Implements comparable to handle printout operations according to title.

Methods:

All methods of advertising class are getter and *setter* of *title, way of work, job role, job type, job location, number of vacancies* and *company industry*.

Candidate Class:

Candidate class is constructed with *users id, password and cv* which are abstracted with *Users* class. The statue of candidate is initialized as *not_applied* at the construction. Candidate class represents the candidates with their CV and keeps track of meetings with the priority queue. The reason we had used the priority queue is to help candidates check his/her meetings in order.

- Implements comparable with checking *user id*.
- Extends *Users* Class to abstract user with *id, name, password and type: Candidate*.
- **Priority Queue** is used to keep meetings in order.

Methods:

Candidate class has a getter and setter of *status, password* and *CV*. Other methods are given as:

signUp() => It is used to control userid and password to match for sign up progress.

rateCompany(Company,int) => to add rating to given company.

evaluateTheOffer(Meetings); => If a candidate had a successful meeting, this method is called to change the status of the candidate to working.

seeRatings(Company)=> To check ratings of given companies for details.

applyToAdvertisement(AdvertiseClass)=> Used to apply an advertisement. After successful operation candidates are added to the pool of advertisement.

Company Class:

Candidate class is constructed with UserID , password , company sector, number of employees ,address and hrc object.Company class is keeping advertisements (we use arraylist)and social rights (we use AvlTree). The reason we had used the AvlTree Because the AVL tree is always balanced, Search/Add/Delete is done in $O(\log N)$ so it provided performance enhancement for us.

- Implements comparable with checking rating average.
- Extends *Users* Class to abstract users with *id, name, password and type:Company*.
- **AVL Tree** of String is used to keep SocialRights.
- **ArrayList** of Advertise is used to keep track of advertisements.

Methods:

Candidate class has a getter and setter of rating ,company sector, number of employees .

void addRating() => Add new rate.

SeeSuggestedCandidates(Candidate[] candidates) => See suggested candidates features of given candidates array object.

addSocialRights(String value) =>Add new social rights to the social rights structure.

addAdvertise(AdvertiseClass newValue) => Add new advertise to the advertise structure.

CV Class:

CV class is constructed with details of the standard CV parameters such as address, name, surname, email etc. We had used arraylist to keep information about school, experiences, certificates, capabilities and references which could have more than one item.

- CV class has subclasses of School class, Certificate class and Reference class to get more details about their schools certificates and references. Not much details about these classes are needed as they have similar structures with the CV class.

All the methods implemented in CV class are setter and getter methods to reach out the details of the CV.

HRC Class:

HRC class is our main class to initialize and handle the startup. We had used different data structures in this class to efficiently handle the operations. AVL Tree of *HumanResources*, ArrayList of *Users*, SkipList of *Company*, Map of *Candidate* and ArrayList of *Meetings* are initialized and declared in the constructor.

- The reason we had used the **AvlTree** for *HumanResources* was because the AVL tree is always balanced, Search/Add/Delete is done in $O(\log N)$ so it provided performance enhancement for us.
- The reason we had used the **SkipList** for the *company* is to speed the search operation.
- The reason we have used the **Map** structure for candidates is because we will most likely use add and get methods. As the get method is done in $O(1)$ map is good to use.

All the methods implemented in *HRC* class are getter, setter and initializer of given data structures.

createHumanResources, *createCompany* and *createCandidate* methods are used to create new proper objects and add to the necessary data structure.

Human Resources Class:

Human Resources class is constructed with *userID*, *password*, and *HRC* object. *HumanResources* class is used to represent and operate HR operations. It extends *Users* class because we need to authenticate the user so if they are authorized to manage human resources methods.

loginSystem(String name, String password) => To validate the sign in operation

DeleteCandidate(int userID) => To delete the candidate with given id

SeeCompanyRequest(int companyID) => To print out company requests

CompareRequests(AdvertiseClass as, AdvertiseClass as2) => To compare given to requests which are comparable

GiveOfferToCandidate(Candidate candidate, Meetings meeting) => To offer a candidate a meeting

ArrangeMeeting(String date, Candidate candidate, Company company, String time, int offer)=>
To arrange a meeting to a given candidate and company at the given date and time.

SuggestCandidateToCompany(Candidate candidate, AdvertiseClass as) =>To suggest a given advertisement to a given candidate.

seeMeetings(HRC hrc)=>Print out the meetings of given HRC object

compareTo(HumanResources humanRes)=>Compare method to implement comparable

Meetings Class:

Meetings class constructed with date, candidate, company, time and offer. Date and time is a string to keep the date and time of meeting.

All the methods implemented in *Meeting* class are getter and setter for keeping meeting features. We checked whether it matches the properties of the other object given in the equals function.

To string is writing meeting features.

We calculated the offered difference between this object and the given meeting object.

User Class:

Implements User Interface.

User class constructed with userID, name, password, type. *User* class are getter and setter for keeping user features.

equals(Object o) => Control userID and password is the same or not.

11. Test Cases

Test Case No	Test Case Description	Inputs	Expected Results	Test Data	Result
candidate-1	Candidate Login	Username and password defined on the login screen are entered and then pressed to the login screen.	Logging in successfully	ID: "4" password:"123"	OK
candidate-2	Candidate Sign up	Candidate should sign up with name and password	Signing up successfully	ID: "7" password: "456"	OK
candidate-3	Candidates should be able to evaluate the offer.	Candidate should be able to accept or refuse the offer after selecting corresponding item from menu.	Candidate should accept or refuse the offer and it should be saved to database after selection.	selecting "Accept the offer"	OK
candidate-4	Candidates should be able to give information.	Entering the requested information completely	Saving the entered information in the database	Name surname: "test test" Department: "Software" School : "GTU" etc..	OK
candidate-5	Candidates should be able to have seen ratings.	Candidate should see the ratings after selecting corresponding menu item.	Listing the company ratings in interface	N/A	OK
candidate-6	Candidates should be able to rate the company.	Candidate should see the offer after selecting corresponding menu item and rate the offer after selecting an offer.	Offer should be rated and user should be informed at interface. Ratings should be saved to database.	offer1 : "8.0"	OK
candidate-7	Candidates should be able to set status to open to work.	Candidate should be able to change his/her status to "Active" or "Passive"	Candidate status should be changed successfully and saved to database.	Status["Open To Work"] : "Working"	OK
hr-1	Human resources should be able to log in to the system.	Username and password defined on the login screen are entered and then pressed to the login screen.	Logging in successfully	username : "hr1" password:"123"	OK
hr-2	Human resources should be able to see the request of each company.	HR should see the advertisements after selecting corresponding menu	Listing the active advertisements of companies at interface	N/A	OK
hr-3	Human resources should be able to give offers to candidates for a company.	HR should send offer to candidate after selecting candidate from menu	Offer should be sent to candidate and be added to database	candidate1 : <Offer> ("software engineering at tesla co.")	OK
hr-4	Human resources should be able to suggest a candidate to the company.	HR should send suggestion of a candidate to company after selecting candidate from menu	Suggestion should be sent to company and be added to database	company1 : <Candidate>("elon duck")	OK

hr-5	Human resources should be able to delete candidates from the system.	HR should be able to delete candidates from given list of candidates after selecting menu	Selected candidate should be removed from system and database.	Select Candidate	OK
company-1	Company Login	Username and password defined on the login screen are entered and then pressed to the login screen.	Logging in successfully	username : "8" password:"741"	OK
company-2	Company Sign up	Company should sign up with name and password	Signing up successfully	ID: "8" password: "741"	OK
company-3	Applicant Companies should be able to accept or decline suggested candidates.	Company should see the suggested candidates and accept or decline the suggestion after selecting any of candidate	Suggestion should be updated after the selection and saved to database.	Suggestions: "1" (id of suggestion) Status: "Accept"	OK
company-4	Applicant Companies should be able to advertise.	Company should be able to add new advertisement with filling required form after selecting the corresponding item from menu.	Advertisement should be added successfully to system and saved to database.	Title: "Java Developer at Tesla Co." Salary:"\$90,000 - \$120,000 a year" Job type: "Full-time" etc..	OK
Admin-1	Admin should be able to add Company.	Admin should be able to add new Company with filling required.	Company should be added successfully to system and saved to database.	Select Company	OK
Admin-2	Admin should be able to update the Company	Admin should be able to update new Company' data.	Company should be update successfully to system and update to database.	Select Company	OK
Admin-3	Admin should be able to remove the Company.	Admin should be able to remove after select company.	Company should be deleted successfully to system and remove to database.	Select Company	OK
Admin-4	Admin should be able to add Human Resources.	Admin should be able to add new Human Resources with filling required.	Human Resources should be added successfully to system and saved to database.	Select Human Resources	OK
Admin-5	Admin should be able to update the Human Resources.	Admin should be able to update new Human Resources' data.	Human Resources should be update successfully to system and update to database.	Select Human Resources	OK
Admin-6	Admin should be able to remove the Human Resources.	Admin should be able to remove after select Human Resources	Human Resources should be deleted successfully to system and remove to database.	Select Human Resources	OK

Admin-7	Admin should be able to add Candidate	Admin should be able to add new Candidate with filling required.	Candidate should be added successfully to system and saved to database.	Select Candidate.	OK
Admin-8	Admin should be able to update the Candidate.	Admin should be able to update new Candidate' data.	Candidate should be update successfully to system and update to database.	Select Candidate.	OK
Admin-9	Admin should be able to remove the Candidate.	Admin should be able to remove after select Candidate	Candidate should be deleted successfully to system and remove to database.	Select Candidate.	OK

Test Case Results :

Login to the system:

```
javac src/*.java src/book_implementation/*.java Test.java -d classfiles
java -cp classfiles Test
Your user id is 1
Human- ID:1 Password:123
Information of Admin
ID:0 Password:123
Create a Company and a Candidate for quick login
Passwords are 123
Company
Your id:2
Candidate
Your id:3
Human Resources
Your user id is 4
----- Welcome BRO!! -----

1- Sign Up
2- Log in
Choice:2
ID: 0
Password: 123

1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:
```

Sign Up to the system (Company):

```
1- Sign Up
2- Log in
3- Load Quick-Login for quick test.
4- Exit
Choice:1
1- Sign Up Company
2- Sign Up Candidate
Choose: 1
Name: Enka
Password: 741
Company Sector: Machine
Number Of Employees: 15
Address: Pendik
Your id:8
```


Sign Up to the system (Candidate):

```
1- Sign Up
2- Log in
Choice:1
1- Sign Up Company
2- Sign Up Candidate
Choose: 2
Name: Süleyman
Password: 123
Your id:6
```

Admin Class

Add Company:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:1
Name: Aselsan
Password: 123
Company Sector: Defense Industry
Number Of Employees: 2000
Address: Ankara Macunköy
Your id:5
```

Update Company:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:2
1 - Aselsan
2 - Suleyman Company
0 - Exit
Select Company::1

1- Change Company Name
2- Change Company Sector
3- Change Company Address
4- Change Company Employee Number
0- Exit

0- Exit
Choice:4
New Employee Number:6700

1- Change Company Name
2- Change Company Sector
3- Change Company Address
4- Change Company Employee Number
0- Exit

0- Exit
Choice:
```

Delete Company:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:3
1 - Aselsan
2 - Suleyman Company
0 - Exit
Select Company::1
Company was deleted.
```

Add Human Resources:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:4
Name: New Human Resources
Password: 123
Your user id is 6
```

Update Human Resources:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:5
1 - UserID: 1 | Name: human
2 - UserID: 4 | Name: Oguz
3 - UserID: 6 | Name: New Human Resources
0 - Exit
Select Human Resources::3

1- Change Human Resources Name
2- Change Human Resources Password
0- Exit

Choice: 1
New Name: New human

1- Change Human Resources Name
2- Change Human Resources Password
0- Exit
```

Delete Human Resources:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:6
1 - UserID: 1 | Name: human
2 - UserID: 4 | Name: Oguz
3 - UserID: 6 | Name: New human
0 - Exit
Select Human Resources::3
Human Resources was deleted.
```

Add Candidate:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate

0- Exit
Choice:7
Name: Ahmet
Password: 123
Your id:7
```

Update Candidate:

```
1- Add CV
2- Change Candidate Name
3- Change Candidate Password
4- Change CV
0- Exit
```

Choice:4

```
1- Change Address
2- Change Name
3- Change Surname
4- Change Phone Number
5- Change E-Mail
6- Change Gender
7- Change Birthday Date
8- Change Nationality
9- Change Cover Letter
10- Add School Info
11- Add Experience
12- Add Certificate
13- Add Capability
14- Add Referance
15- Change Driver Licence
0- Exit
```

Choice:2

New Name:Ahmet

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate
```

0- Exit

Choice:8

```
1 - Enis Yalcın
2 - Ahmet
0 - Exit
```

Select:2

```
1- Add CV
2- Change Candidate Name
3- Change Candidate Password
4- Change CV
0- Exit
```

Choice:2

New Name:Ahmet Furkan

```
1- Add CV
2- Change Candidate Name
3- Change Candidate Password
4- Change CV
0- Exit
```

```
1- Add CV
2- Change Candidate Name
3- Change Candidate Password
4- Change CV
0- Exit
```

```
Choice:1
Adress:Beşiktaş
Name:Furkan
Surname:Kurban
Tel no:3333333333
E-Mail:akurban@gmail.com
Gender:E
Birthday:1999
Nationality:Türkiye
```

Delete Candidate:

```
1- Add Company
2- Update Company
3- Delete Company
4- Add Human Resources
5- Update Human Resources
6- Delete Human Resources
7- Add Candidate
8- Update Candidate
9- Delete Candidate
```

```
0- Exit
Choice:9
1 - Enis Yalcın
2 - Ahmet Furkan
0 - Exit
Select:2
```

Company Class

Create New Advertise:

```
1- Create New Advertise
2- See Your Advertises
3- Get Rating Average
4- Add New Social Rights
5- See Applicants
6- Change Profile Settings
7- See All Information about Your Company

0- Exit
Choice:1
Title:Machiner
Way of Work (remote or face-to-face):Remote
Role:Engineer
Job Type:CNC
Location:Pendik
Vacancies:5
Industry:
Enter Capabilities Size:1
Enter 1. capabilites:Walking
Education Level:High
Experience Year:3
Description:
```

See Your Advertise:

```
1- Create New Advertise
2- See Your Advertises
3- Get Rating Average
4- Add New Social Rights
5- See Applicants
6- Change Profile Settings
7- See All Information about Your Company

0- Exit
Choice:2
[Info: [Title =Title:, WayOfWork=Way of Work (remote or location):, Role =Role:, Job Type=Job Type:, Location=Location:, Vacancies =1, Industry=Industry:, Capabilities =null, Education Level =aa, Experience Year =11, Description =sss]
, Info: [Title =Intern Searching, WayOfWork=location, Role =Intern, Job Type=Intern, Location=Istanbul, Vacancies =1, Industry=Softtech, Capabilities =Java/Cpp, Education Level =1, Experience Year =1, Description =Searching]
]
```

Get Rating Average:

```
1- Create New Advertise
2- See Your Advertises
3- Get Rating Average
4- Add New Social Rights
5- See Applicants
6- Change Profile Settings
7- See All Information about Your Company

0- Exit
Choice:3
0.0
```

Add New Social Rights:

```
1- Create New Advertise
2- See Your Advertises
3- Get Rating Average
4- Add New Social Rights
5- See Applicants
6- Change Profile Settings
7- See All Information about Your Company

0- Exit
Choice:4
Social Right:labor rights
```

See Applicants:

```
1- Create New Advertise
2- See Your Advertises
3- Get Rating Average
4- Add New Social Rights
5- See Applicants
6- Change Profile Settings
7- See All Information about Your Company

0- Exit
Choice:5
1: ID: 4 Name: Enis Yalcin Statue: Open To Work
Select candidate: 1

1- See Candidate's CV
2- Accept Candidate and Arrange Meeting
3- Decline Candidate

0- Exit
Choice:3
Declined Offer
```


Change Profile Settings:

```
1- Create New Advertise
2- See Your Advertises
3- Get Rating Average
4- Add New Social Rights
5- See Applicants
6- Change Profile Settings
7- See All Information about Your Company

0- Exit
Choice:6

1- Change Company Name
2- Change Company Sector
3- Change Company Address
4- Change Company Employee Number
0- Exit

0- Exit
Choice:1
New Name:Aselsan

1- Change Company Name
2- Change Company Sector
3- Change Company Address
4- Change Company Employee Number
0- Exit

0- Exit
Choice:0
```

See All Information about Your Company:

```
1- Create New Advertise
2- See Your Advertises
3- Get Rating Average
4- Add New Social Rights
5- See Applicants
6- Change Profile Settings
7- See All Information about Your Company

0- Exit
Choice:7
Name: Aselsan
Id: 2
Advertises: [Info: [Title =Title:, WayOfWork=Way of Work (remote or location):, Role =Role:, Job Type=Job Type:, Location=Location:, Vacancies =1, Industry=Industry:, Capabilities =null, Education Level =aa, Experience Year =11, Description =sss]
, Info: [Title =Intern Searching, WayOfWork=location, Role =Intern, Job Type=Intern, Location=Istanbul, Vacancies =1, Industry=Softtech, Capabilities =Java/Cpp, Education Level =1, Experience Year =1, Description =Searching]
]
CompanySector: Hatay Yemekleri
Number of Employees: 10
Address: Hatay OF Course
Ratings avg: 0.0
Social Rights: labor rights,
```

Human Resources Class

Delete Candidate:

```
1- Delete candidate
2- See company requests
3- Compare requests
4- Give offer to candidate
5- Arrange Meeting
6- Suggest Candidate To Company
7- Print Human Resource Info.
8- See All Meetings

0- Exit
Choice:1
Enter user ID to delete: 1
```

See Company Requests:

Compare Requests:

```
1- Delete candidate
2- See company requests
3- Compare requests
4- Give offer to candidate
5- Arrange Meeting
6- Suggest Candidate To Company
7- Print Human Resource Info.
8- See All Meetings

0- Exit
Choice:3
1 - Aselsan
0 - Exit
Select company: :1
1: Info: [Title =Title:, WayOfWork=Way of Work (remote or location):, Role =Role:, Job Type=Job Type:, Location=Location:, Vacancies =1, Industry=Industry:, Capabilities =null, Education Level =aa, Experience Year =11, Description =sss]
2: Info: [Title =Intern Searching, WayOfWork=location, Role =Intern, Job Type=Intern, Location=Istanbul, Vacancies =1, Industry=Softtech, Capabilities =Java/Cpp, Education Level =1, Experience Year =1, Description =Searching]
```

Give offer to candidate:

```
1- Delete candidate
2- See company requests
3- Compare requests
4- Give offer to candidate
5- Arrange Meeting
6- Suggest Candidate To Company
7- Print Human Resource Info.
8- See All Meetings

0- Exit
Choice:4
1 - Enis Yalcın
0 - Exit
Select candidate: :1
Date:26/06/2021
1 - Enis Yalcın
0 - Exit
Select Candidate::1
1 - Aselsan
0 - Exit
Select Company::1
Time: 14.00
Offer:1
```

Arrange Meeting:

```
1- Delete candidate
2- See company requests
3- Compare requests
4- Give offer to candidate
5- Arrange Meeting
6- Suggest Candidate To Company
7- Print Human Resource Info.
8- See All Meetings

0- Exit
Choice:5
Enter date: 26/06/2021
1 - Enis Yalcın
0 - Exit
Select candidate: :1
1 - Aselsan
0 - Exit
Select company: :1
Enter time: 14.00
Enter offer: 1
```

Suggest Candidate to Company:

```
1- Delete candidate
2- See company requests
3- Compare requests
4- Give offer to candidate
5- Arrange Meeting
6- Suggest Candidate To Company
7- Print Human Resource Info.
8- See All Meetings

0- Exit
Choice:6
1 - Enis Yalcın
0 - Exit
Select candidate: :1
1 - Aselsan
0 - Exit
Select company: :1
1: Info: [Title =Title:, WayOfWork=Way of Work (remote or location):, Role =Role:, Job Type=Job Type:, Location=Location:, Vacancies =1, Industry=Industry:, Capabilities =null, Education Level =aa, Experience Year =11, Description =sss]
2: Info: [Title =Intern Searching, WayOfWork=location, Role =Intern, Job Type=Intern, Location=Istanbul, Vacancies =1, Industry=Softtech, Capabilities =Java/Cpp, Education Level =1, Experience Year =1, Description =Searching]
Select Advertise: 2
```

Print Human Resource Info:

```
1- Delete candidate
2- See company requests
3- Compare requests
4- Give offer to candidate
5- Arrange Meeting
6- Suggest Candidate To Company
7- Print Human Resource Info.
8- See All Meetings

0- Exit
Choice:7
UserID: 1 | Name: human
```

See All Meetings:

```
1- Delete candidate
2- See company requests
3- Compare requests
4- Give offer to candidate
5- Arrange Meeting
6- Suggest Candidate To Company
7- Print Human Resource Info.
8- See All Meetings

0- Exit
Choice:8
1 - Date:26/06/2021
Candidate:ID: 3 Name: Enis Yalcın Statue: Working
Company:Name: Aselsan
Id: 2
Advertises: [Info: [Title =Title:, WayOfWork=Way of Work (remote or location):, Role =Role:, Job Type=Job Type:, Location=Location:, Vacancies =1, Industry=Industry:, Capabilities =null, Education Level =aa, Experience Year =11, Description =sss]
, Info: [Title =Intern Searching, WayOfWork=location, Role =Intern, Job Type=Intern, Location=Istanbul, Vacancies =1, Industry=Softtech, Capabilities =Java/Cpp, Education Level =1, Experience Year =1, Description =Searching]
]
CompanySector: Hatay Yemekleri
Number of Employees: 10
Address: Hatay OF Course
Ratings avg: 0.0
Social Rights: labor rights,

Time:14.00
Offer:1

0 - Exit
Type 0 To Exit::
```

Candidate Class

Apply To Advertise:

```
1- Apply To Advertise
2- See Company Rating
3- Evaluate The Offer
4- Set Status To Open To Work
5- CV Settings
6- Change Password
7- Information
8- See CV Information

0- Exit
Choice:1
Your status is not set to 'Open To Work'.
Do you want to change status to Open To Work?
(y/n):y
1 - Aselsan
0 - Exit
Select Company::1
1: Info: [Title =Title:, WayOfWork=Way of Work (remote or location):, Role =Role:, Job Type=Job Type:, Location=Location:, Vacancies =1, Industry=Industry:, Capabilities =null, Education Level =aa, Experience Year =11, Description =sss]

2: Info: [Title =Intern Searching, WayOfWork=location, Role =Intern, Job Type=Intern, Location=Istanbul, Vacancies =1, Industry=Softtech, Capabilities =Java/Cpp, Education Level =1, Experience Year =1, Description =Searching]

Select Advertise: 2
```

See Company Rating:

```
1- Apply To Advertise
2- See Company Rating
3- Evaluate The Offer
4- Set Status To Open To Work
5- CV Settings
6- Change Password
7- Information
8- See CV Information

0- Exit
Choice:2
1 - Aselsan
0 - Exit
Select Company: :1
Rating: 7.0
```

Evaluate The Offer:

```
*****
Welcome Ali

1- Apply To Advertise
2- See Company Rating
3- Evaluate The Offer
4- Set Status To Open To Work
5- CV Settings
6- Change Password
7- Information
8- See CV Information

0- Exit
Choice:3
1 - Date:12
Candidate:ID: 7 Name: Ali Statue: NOT_APPLIED
Company:Name: IBM Turkey
Id: 3
Advertises: [Info: [Title =Back-End Developer - Remote, WayOfWork=Remote, Role =Back-End, Job Type=Full Time, Location=Tuzla, Vacancies =10, Industry=IT, Capabilities =n
ull, Education Level =High-School, Experience Year =3, Description =A passionate Back-End Developer for world one of the Biggest Company]
]
CompanySector: IT
Number of Employees: 10
Address: Tuzla
Ratings avg: 0.0
Social Rights:

Time:45
Offer:500

0 - Exit
Select Offer (If no one suits you type 0): :█
```

CV Settings:

```
1- Apply To Advertise
2- See Company Rating
3- Evaluate The Offer
4- Set Status To Open To Work
5- CV Settings
6- Change Password
7- Information
8- See CV Information
```

```
0- Exit
Choice:5
```

```
1- Add CV
2- Change Candidate Name
3- Change Candidate Password
4- Change CV
0- Exit
```

```
Choice:2
New Name:Süleyman
```

```
1- Add CV
2- Change Candidate Name
3- Change Candidate Password
4- Change CV
0- Exit
```

```
Choice:0
```

Change Password and Information:

```
1- Apply To Advertise
2- See Company Rating
3- Evaluate The Offer
4- Set Status To Open To Work
5- CV Settings
6- Change Password
7- Information
8- See CV Information
```

```
0- Exit
Choice:6
New Password: 234
```

```
1- Apply To Advertise
2- See Company Rating
3- Evaluate The Offer
4- Set Status To Open To Work
5- CV Settings
6- Change Password
7- Information
8- See CV Information
```

```
0- Exit
Choice:7
ID: 3 Name: Süleyman Statue: Open To Work
```

See CV Information:

- 1- Apply To Advertise
- 2- See Company Rating
- 3- Evaluate The Offer
- 4- Set Status To Open To Work
- 5- CV Settings
- 6- Change Password
- 7- Information
- 8- See CV Information

0- Exit

Choice:8

CvClass [Address=test, Name=test, Surname=test, TelNo=test, Email=test, Gender=test, BirthDay=test, Nationality=test, CoverLetter=test, SchoolInformation=[], Experiences=[], Certificates=[], Capabilities=[], References=[], DriversLicense=true]