**Introduction to Software Engineering**

**SWE206**

Lab Project – Talent Acquisition (TA) department

Section 51 – group 5

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | ID | Phase 1 | | | Phase 2 | | | Phase 3 | All |
| Requirements | Use Case Diagram | Use Case Description | Class Diagram | Activity Diagram | Sequence Diagram | Implementation | Report |
| Mohammed Alsahli | 201934450 | 20% | 30% | 25% | 25% | 25% | 25% |  | 70% |
| Ammar Almajed | 201922810 | 20% | 20% | 25% | 25% | 25% | 25% |  | 10% |
| Saad  Alali | 201955470 | 40% | 30% | 25% | 25% | 25% | 25% |  | 10% |
| Ali Al-Khulaifi | 201819180 | 20% | 20% | 25% | 25% | 25% | 25% |  | 10% |

**Table of Contribution**

Phase 1

Requirement

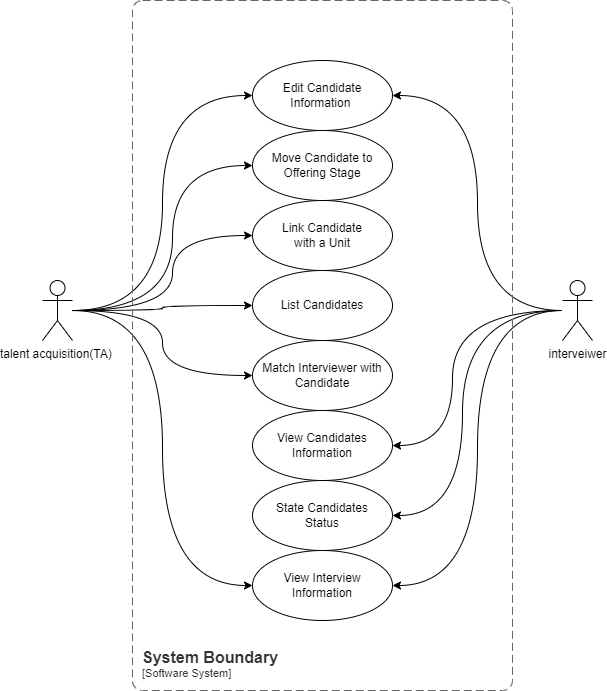
Functional

1. Generate proper jobs for each unit based on the bands connected to it
2. Modify the hierarchy
3. Add a hierarchy
4. List the candidates with their basic information Name, ID, Gender, years of experience, education level and a CV
5. Match proper interviewers for each candidate based on their jobs
6. If the interviewer chosen, system will find a free time in his calendar
7. Save the candidate interview Information: date, time, and interviewer (there could be more than one interview)
8. Results of the interview for each candidate weather he failed, pass, or hold
9. Move the candidates who passed to offering stage
10. link the new hired employee to one of the units in hierarchy
11. create a job offer considering the candidate position, salary breakdown, and other benefit

Non-Functional

1. system should be developed using java language
2. system should take no more than 5 sec to run
3. system should provide High security to save the candidates information
4. system should be able to read excel files
5. system should have high maintainability
6. system should provide hieratical structured database such that
   1. Each division consists of many directorates
   2. Each directorate consists of many departments
7. The TA should be able to access candidates’ information
8. Candidates should go through clear processes
9. The system should follow the guidelines of the Ministry of Human Resources

Use Case Diagram



Use Case Description

|  |  |  |  |
| --- | --- | --- | --- |
| **Use case ID:** | 1 | | |
| **Use Case Name:** | Edit Candidate Information | | |
| **Created by:** | Mohammed Alsahli | **Last Updated by:** |  |
| **Date Created:** | 29/03/2022 | **Last Revision Date:** |  |
| **Actors:** | Talent Acquisition, Interviewer | | |
| **Description:** | Change candidate information | | |
| **Trigger:** | Edit button | | |
| **Preconditions:** | Candidate has an active state. | | |
| **Postconditions:** | Candidate information updated. | | |
| **Normal Flow:** | Actor press Edit button  System opens up editable slots  Actor insert information into available/changeable slots  Actor press Save button.  System locks down slots  System updates candidate information | | |
| **Alternative Flows:** | 3a. In step 3 of the normal flow, if actor selected non editable slot   1. A notification appears to let actor know that he cannot edit this slot 2. Use case resumes on step 4 of normal flow   4a. In step 4 of the normal flow, if actor didn’t press save and left   1. A pop up window appears to let him know that he did not save and ask him to choose to save or discard 2. Use case resumes on step 5 | | |
| **Exceptions:** | 4a. In step 4a of the alternative flow, if actor clicks discard   1. Notification of discarding appears 2. System goes back to previous stage | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** | Non editable slots such as the date of signing the candidate in and his ID | | |

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| --- | --- | --- | --- |
| **Use case ID:** | 2 | | |
| **Use Case Name:** | Move The Candidates To Offering Stages | | |
| **Created by:** | Saad alali | **Last Updated by:** |  |
| **Date Created:** | 29/03/2022 | **Last Revision Date:** |  |
| **Actors:** | Talent Acquisition | | |
| **Description:** | allows the admin(TA) to move the passed candidates to another stage to offer jobs for them | | |
| **Trigger:** | Move | | |
| **Preconditions:** | 1. The candidate doesn’t need any more interviews 2. The candidate status is passed | | |
| **Postconditions:** | 1. The candidate added to the offer stage list 2. The system offers a proper job for the candidate | | |
| **Normal Flow:** | 1. system prompt menu page 2. user click view candidates list 3. system prompt candidate list 4. user search for candidate 5. system show candidate information 6. user click move to offer stage 7. system moves the candidate to offer stage | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | 6a. there is no candidate with the entered name   1. System shows not found massage   8a. the candidate status is not passed   1. System show error massage “the candidates did not pass” | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use case ID:** | 3 | | |
| **Use Case Name:** | Link Candidate With A Unit | | |
| **Created by:** | Saad alali | **Last Updated by:** |  |
| **Date Created:** | 29/03/2022 | **Last Revision Date:** |  |
| **Actors:** | Talent Acquisition | | |
| **Description:** | Allow actor to link a candidate to a unit | | |
| **Trigger:** | Link | | |
| **Preconditions:** | 1. Units are already established 2. System has the candidate’s information | | |
| **Postconditions:** | 1. The candidate is linked to proper unit | | |
| **Normal Flow:** | 1. Actor click link candidates 2. system prompt jobs list and offer stage candidates 3. Actor choose job and choose candidate 4. Actor click Done 5. System link candidate to the unit 6. System creates the job bands for the candidate 7. System updates file | | |
| **Alternative Flows:** | 3a. In step 3 of the normal flow, if Actor did not choose any job or candidate   1. System prompt Actor to choose what is missing 2. Actor chose   Use case resumes on step 4 | | |
| **Exceptions:** | 3a. In step 3 of the alternative flow, if actor did not choose anything   1. System discard changes 2. System goes back to previous stage | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| --- | --- | --- | --- |
| **Use case ID:** | 4 | | |
| **Use Case Name:** | List Candidates | | |
| **Created by:** | ALI AL-KHULAIFI | **Last Updated by:** |  |
| **Date Created:** | 30/03/2022 | **Last Revision Date:** |  |
| **Actors:** | Talent Acquisition (TA) | | |
| **Description:** | View the list of candidates | | |
| **Trigger:** | Press on view list of candidates | | |
| **Preconditions:** | The list of candidates is settled | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. User press view button  2. The system will load the candidates from file  3. The system will display the names and ids to user to choose  4. The user click on of them to display | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | In Step 3 of the normal flow, if the user selects both ids and names  1. A message will be displayed to tell the user to choose only one  2. Use case resumes from step 3 | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** | The information of the candidate are name, national ID, gender, years of experience and education level. | | |

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| --- | --- | --- | --- |
| **Use case ID:** | 5 | | |
| **Use Case Name:** | Match Interviewers With Each Candidate | | |
| **Created by:** | Ammar Almajed | **Last Updated by:** |  |
| **Date Created:** | 29/3/2022 | **Last Revision Date:** |  |
| **Actors:** | Talent Acquisition (TA) | | |
| **Description:** | TA can assign interviewer to various candidates to interview them | | |
| **Trigger:** | Send interview to candidate | | |
| **Preconditions:** | 1. There is interviewer available to do the interview | | |
| **Postconditions:** | 1. Add the interview to the interviewer schedule 2. Send email to the candidate with the details of the interview 3. Send email to the interviewer with the details of the interview and the candidate | | |
| **Normal Flow:** | 1. TA goes to the website of the company 2. TA enters the password and username 3. TA click the “see candidates list” button 4. TA click the “Send interview to candidate” button 5. TA assign an interviewer to do the interview | | |
| **Alternative Flows:** | In step 3 if there are no candidates   1. System will display a massage indicating that there are no candidates   In step 5 in the normal flow if the interview has conflict with another interview   1. Send a massage indicating that there is a conflict between interviews | | |
| **Exceptions:** | In step 2 in the normal flow, if the TA enters a wrong password or username   1. Massage to the TA to reenter the password or username 2. TA enters correct password and username 3. Use case resumes on step 3 of normal flow | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** | 1. TA has the permission to discuss the interview details with the interviewer 2. TA has the permission to talk with the candidate about the interview details | | |

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| --- | --- | --- | --- |
| **Use case ID:** | 6 | | |
| **Use Case Name:** | View Candidate Information | | |
| **Created by:** | Mohammed Alsahli | **Last Updated by:** |  |
| **Date Created:** | 29/03/2022 | **Last Revision Date:** |  |
| **Actors:** | Talent Acquisition, Interviewer | | |
| **Description:** | View candidate information | | |
| **Trigger:** | Click at candidate Name/ID | | |
| **Preconditions:** | Candidate has an active state. | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. Actor clicks on candidate’s name or ID 2. System loads information from excel sheet 3. System displays the information | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| --- | --- | --- | --- |
| **Use case ID:** | 7 | | |
| **Use Case Name:** | State The Candidate’s Status | | |
| **Created by:** | ALI AL-KHULAIFI | **Last Updated by:** |  |
| **Date Created:** | 31/03/2022 | **Last Revision Date:** |  |
| **Actors:** | Interviewer | | |
| **Description:** | State the candidate’s status | | |
| **Trigger:** | Press on the status of candidate | | |
| **Preconditions:** | 1. The interview should be done  2. The interviewer should have an access on the system | | |
| **Postconditions:** | 1. The status of the candidate is updated | | |
| **Normal Flow:** | 1. The user select the candidate’s information  2. The user press on the candidate’s status  3. The screen shown the choices which are pass, fail and hold  4. The user choose one choice  5. The status is updated | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | In step 4 of the normal flow, if the user chooses more than one option  1. A message is shown telling the user to choose one option  2. The use case will resume in step 3 | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** | 1. The option hold will change after third Interview | | |

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| --- | --- | --- | --- |
| **Use case ID:** | 8 | | |
| **Use Case Name:** | View Interview Information | | |
| **Created by:** | Ammar Almajed | **Last Updated by:** |  |
| **Date Created:** | 29/3/2022 | **Last Revision Date:** |  |
| **Actors:** | Interviewer | | |
| **Description:** | Interviewer can view the details of the interview i.e., time, date, interviewee information, etc. | | |
| **Trigger:** | See interview details | | |
| **Preconditions:** | 1. Interviewer has one or more interviewees to be interviewed | | |
| **Postconditions:** | 1. Interview information does not change 2. Mark interview as seen or reviewed | | |
| **Normal Flow:** | 1. Interviewer goes to the website of the company 2. Interviewer enters the password and username 3. Interviewer selects see interview details from the menu bar 4. System displays all interviews 5. Interviewer selects one of the interviews 6. System displays the information of the details of the selected interview | | |
| **Alternative Flows:** | In step 4 if there are no interviews   1. System will display a massage indicating that there are no interviews | | |
| **Exceptions:** | In step 2 in the normal flow, if the interviewer enters a wrong password or username   1. Massage to the interviewer to reenter the password or username 2. Interviewer enters correct password and username 3. Use case resumes on step 3 of normal flow | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** | 1. The interviewer does not have permissions to change the details of the interview 2. Interviewer can send emails to interviewee about the interview and some information that they may want to know 3. Interviewer can send emails with interview information to the interviewee as a reminder | | |

Phase 2

Class Diagram

A screenshot of a computer

Description automatically generated with medium confidence

Activity Diagram

1. Edit Candidate Information
2. Move The Candidates To Offering Stages
3. Link Candidate With A Unit
4. List Candidates
5. Match Interviewers With Each Candidate
6. View Candidate Information
7. State The Candidate’s Status
8. View Interview Information

Sequence Diagram

1. Edit Candidate Information
2. Move The Candidates To Offering Stages
3. Link Candidate With A Unit
4. List Candidates
5. Match Interviewers With Each Candidate
6. View Candidate Information
7. State The Candidate’s Status
8. View Interview Information