Introduction to Software Engineering SWE206

Lab Project – Talent Acquisition (TA) department

Section 51 – group 5

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TABLE OF CONTRIBUTION

		Phase I			Phase 2			Phase 3	All
Name	ID	Requirements	Use Case Diagram	Use Case Description	Class Diagram	Activity Diagram	Sequence Diagram	Implementation	Report
Mohammed Alsahli	201934450	20%	30%	20%	40%	20%	20%	40%	50%
Ammar Almajed	201922810	20%	20%	25%	20%	25%	30%	30%	10%
Saad Alali	201955470	40%	30%	25%	20%	30%	25%	20%	10%
Ali Al- Khulaifi	201819180	20%	20%	30%	20%	25%	25%	10%	30%

PHASE I

REQUIREMENT

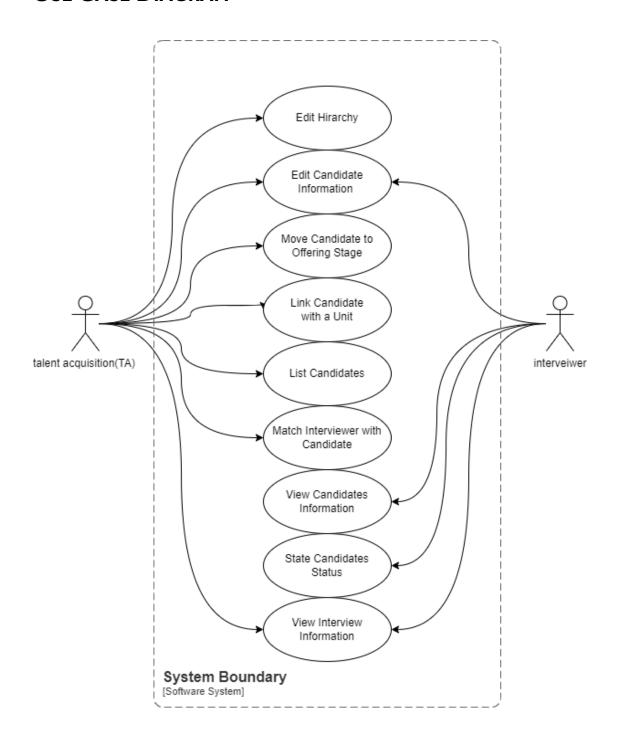
FUNCTIONAL

- I- 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
- I I create a job offer considering the candidate position, salary breakdown, and other benefit

Non-Functional

- I- 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
 - a. Each division consists of many directorates
 - b. 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	١	
Created by:	Mohammed Alsahli	Last Updated by:	
Date Created:	29/03/2022	Last Revision Date:	
Actors:	Talent Acquisition, Interview	er	
Description:	Change candidate information	l	
Trigger:	Edit button		
Preconditions:	Candidate has an active state.		
Postconditions:	Candidate information update	d.	
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 3a. In step 3 of the normal flow, if actor selected non editable slot		
Alternative Flows:	 A notification appears to let actor know that he cannot edit this slot Use case resumes on step 4 of normal flow In step 4 of the normal flow, if actor didn't press save and left A pop up window appears to let him know that he did not save and ask him to choose to save or discard Use case resumes on step 5 		
Exceptions:	4a. In step 4a of the alternative flow, if actor clicks discard1. Notification of discarding appears2. System goes back to previous stage		
Assumptions:			
Notes and Issues:	Non editable slots such as the ID	date of signing th	e candidate in and his

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 stage to offer jobs for them	e the passed cand	didates to another
Trigger:	Move		
Preconditions:	The candidate doesn't i The candidate status is		erviews
Postconditions:	 The candidate added to The system offers a pro 	J	
Normal Flow:	 system prompt menu page user click view candidates list system prompt candidate list user search for candidate system show candidate information user click move to offer stage 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 candida	te to a unit	
Trigger:	Link		
Preconditions:	 Units are already estab System has the candida 		
Postconditions:	The candidate is linked	to proper unit	
Normal Flow:	 Actor click link candidates system prompt jobs list and offer stage candidates Actor choose job and choose candidate Actor click Done System link candidate to the unit System creates the job bands for the candidate 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 anything1. System discard changes2. System goes back to previous stage		
Assumptions:			
Notes and Issues:			-

Use case ID:	4			
Use Case Name:	LIST CANDIDATES			
Created by:	ALI AL-KHULAIFI	ALI AL-KHULAIFI Last Updated by:		
Date Created:	30/03/2022 Last Revision Date:			
Actors:	Talent Acquisition (TA)			
Description:	View the list of candidates	S		
Trigger:	Press on view list of candi	idates		
Preconditions:	The list of candidates is settled			
Postconditions:				
Normal Flow:	User press view button The system will load the candidates from file The system will display the names and ids to user to choose 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	The information of the candidate are name, national ID, gender,			
Issues:	years of experience and ed	ducation level.		

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 varie	ous candidates to	interview them
Trigger:	Send interview to candidate		
Preconditions:	There is interviewer available	e to do the intervie	W
Postconditions:	 Add the interview to the interviewer schedule Send email to the candidate with the details of the interview Send email to the interviewer with the details of the interview and the candidate 		
Normal Flow:	 TA goes to the website of the company TA enters the password and username TA click the "see candidates list" button TA click the "Send interview to candidate" button 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:	TA has the permission to discuss the interview details with the interviewer TA has the permission to talk with the candidate about the interview details		

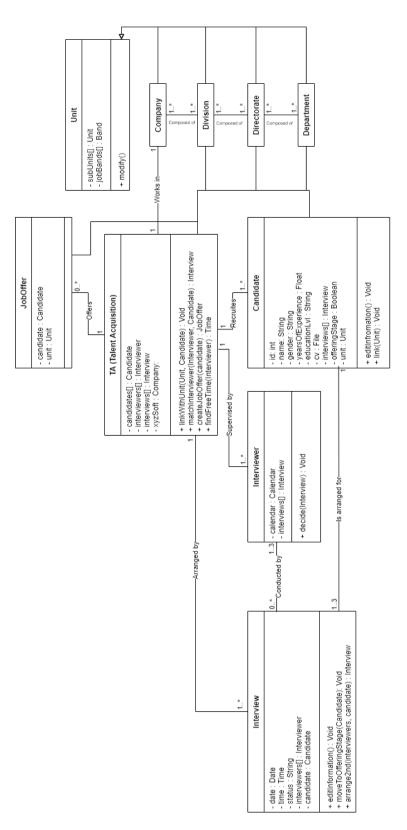
Use case ID:	6		
Use Case Name:	VIEW CANDIDATE INFORMATION		
Created by:	Mohammed Alsahli Last Updated by:		
Date Created:	29/03/2022	Last Revision Date:	
Actors:	Talent Acquisition, Intervi	ewer	
Description:	View candidate information	on	
Trigger:	Click at candidate Name/I	D	
Preconditions:	Candidate has an active st	ate.	
Postconditions:			
	1. Actor clicks on candidate's name or ID		
Normal Flow:	2. System loads information from excel sheet		
	3. System displays the information		
Alternative			
Flows:			
Exceptions:			
Assumptions:			
Notes and			
Issues:			

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

Use case ID:	8			
Use Case Name:	VIEW INTERVIEW INFORMATION			
Created by:	Ammar Aln	najed	Last Updated by:	
Date Created:	29/3/2022		Last Revision Date:	
Actors:	Interviewer			
Description:	Interviewer	can view the c	letails of the inter	view i.e., time,
Description.	date, intervi	ewee informat	ion, etc.	
Trigger:	See intervie	w details		
Preconditions:	 Intervi intervi 		or more interviewe	es to be
Postconditions:	1. Intervi	ew information	does not change	
1 ostconunions.	2. Mark	nterview as se	en or reviewed	
Normal Flow:	 Interviewer goes to the website of the company Interviewer enters the password and username Interviewer selects see interview details from the menu bar System displays all interviews Interviewer selects one of the interviews System displays the information of the details of the selected interview 			
Alternative	In step 4 if there are no interviewsSystem will display a massage indicating that there are			
Flows:			a massage indica	ting that there are
Exceptions:	no interviews 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:	 The interviewer does not have permissions to change the details of the interview Interviewer can send emails to interviewee about the interview and some information that they may want to know Interviewer can send emails with interview information 			
	to th	e interviewee a	s a reminder	_

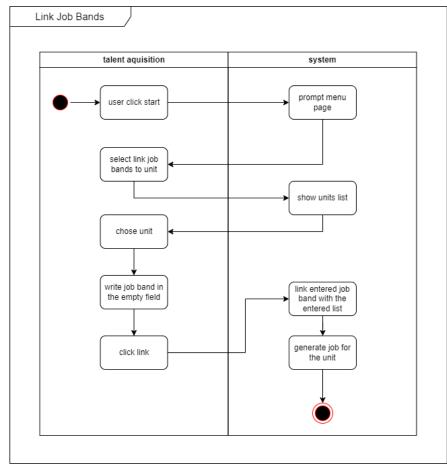
Use case ID:	9		
Use Case Name:	EDIT HIERARCHY		
Created by:	Ali AL-KHULAIFI Last Updated by:		
Date Created:	4/11/2022	Last Revision Date:	
Actors:	Talent Acquisition		
Description:	Edit the hierarchy of the c	ompany	
Trigger:	Click on Edit hierarchy bu	itton	
Preconditions:	 The unit is edited sho The unit will be added 		
Postconditions:	1. The hierarchy is upda	ated	
Normal Flow:	1. Edit hierarchy: 1. click on Edit hierarchy button 2. The units of company is shown 3. click on the unit want to be edited 4. change the job bands of the unit 5. The job bands is updated 2. Add new Unit: 1. click on Edit hierarchy button 2. The units of company is shown 3. click on add new unit button 4. add the name of the unit 5. click on the unit that is the parent of the new unit		
Alternative			
Flows: Exceptions	In normal flow 2.4, if the new unit is existed: 1. Show an error message telling the user that the unit is already existed 2. Use case resumes on 2.3 In normal flow 1.3, if the unit to be edited is empty: 1. Show an error message telling the user that the unit is empty. 2. Use case resumes on 2.2		
Assumptions:			
Notes and Issues:			

PHASE 2 CLASS DIAGRAM

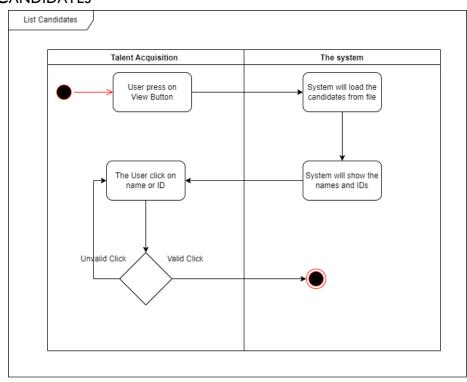


ACTIVITY DIAGRAM

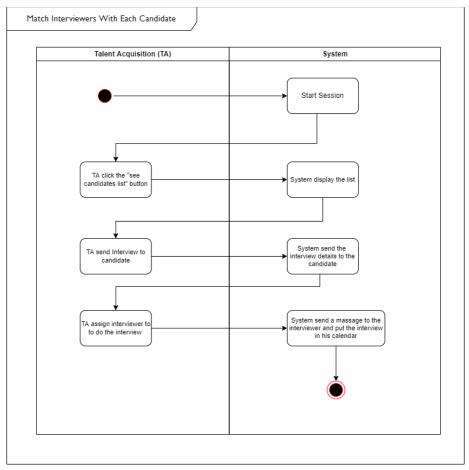
LINK JOB BANDS



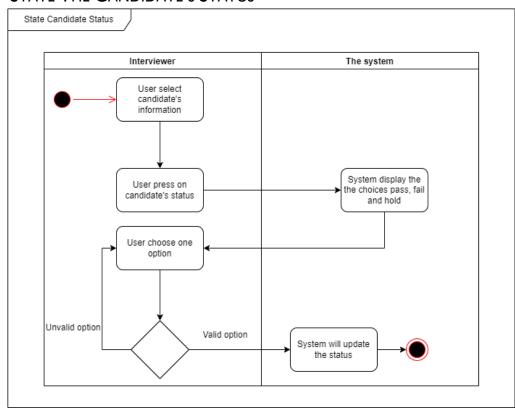
LIST CANDIDATES



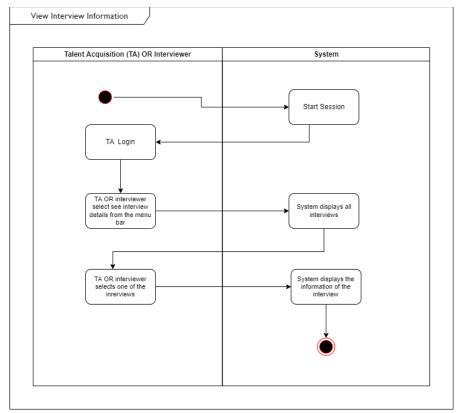
MATCH INTERVIEWERS WITH EACH CANDIDATE



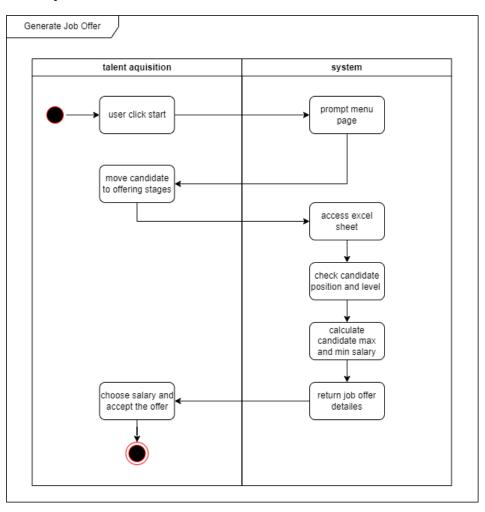
STATE THE CANDIDATE'S STATUS



VIEW INTERVIEW INFORMATION

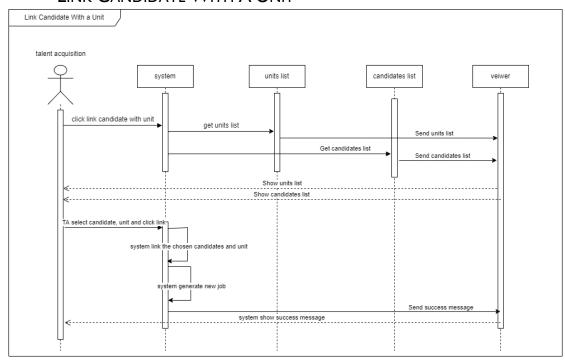


GENERATE JOB OFFER

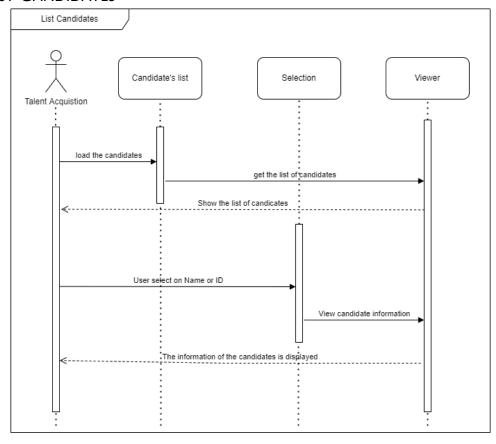


SEQUENCE DIAGRAM

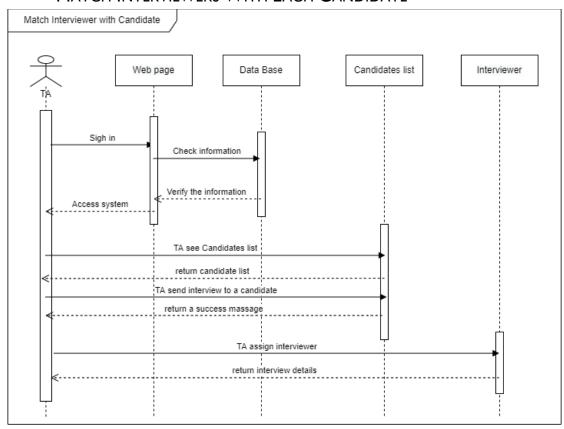
LINK CANDIDATE WITH A UNIT



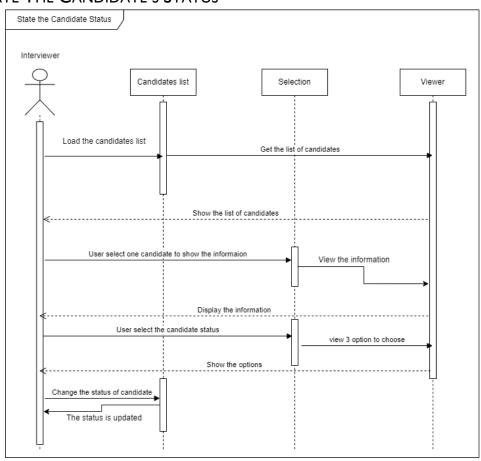
LIST CANDIDATES



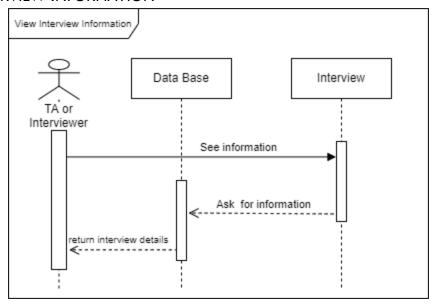
MATCH INTERVIEWERS WITH EACH CANDIDATE



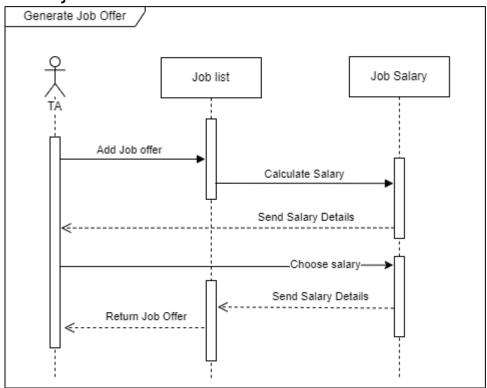
STATE THE CANDIDATE'S STATUS



VIEW INTERVIEW INFORMATION



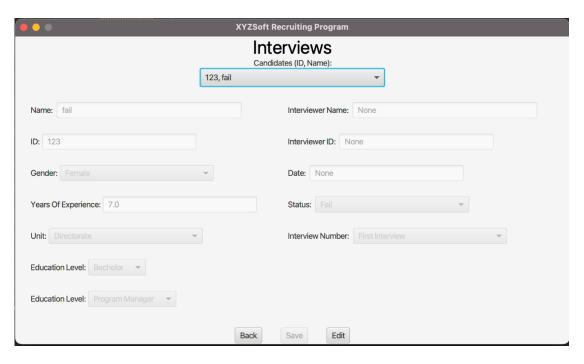
GENERATE JOB OFFER



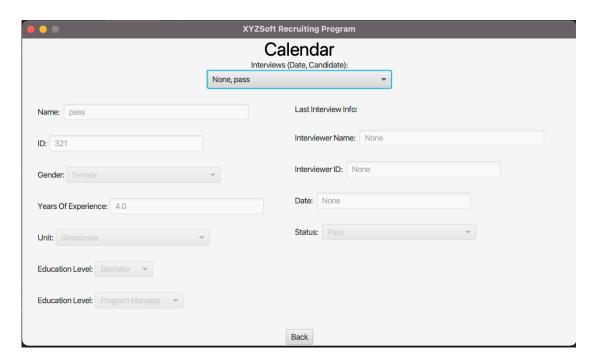
PHASE III

At this stage we created 8 scenes for each class:

- A Interviews
- B Calendar
- C Interviewer
- D Job Offering
- E Hierarchy
- F Candidate
- G XYZ Recruiting Program
- H Talent Acquisition



In this Scene it shows the details of the interview. It shows the details of the candidate and the details of the Interviewer.



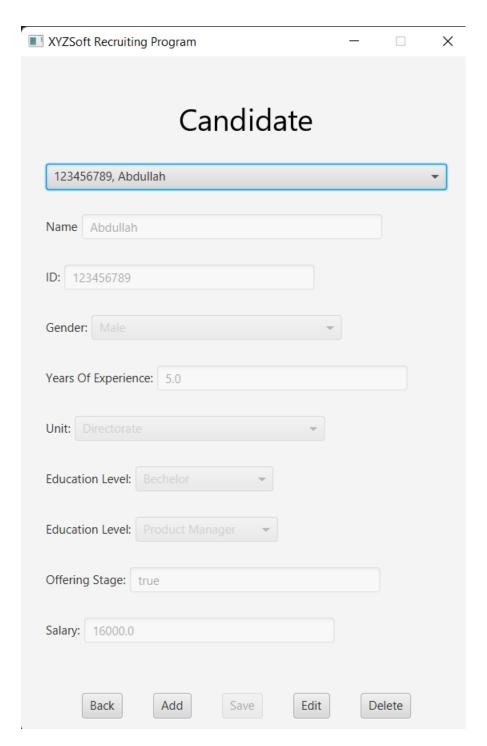
In this Scene, it shows the details of the candidate and the interviewer to set a new Date for the interview.



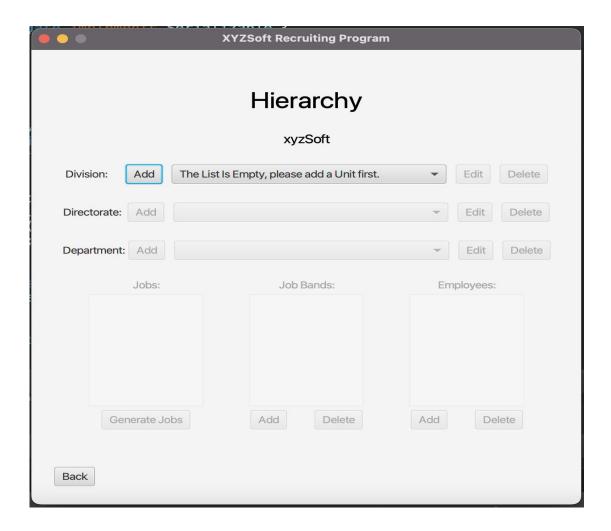
In this scene, it is job offering page. It allows the user to choose the salary of the offer. We use the formulas in the excel sheet to get the salary



In this Scene, It shows the point of view of an Interviewer actor. He has to choose between the calendar and the Interviews.



In this scene, it shows the details of the candidate and his status and it allow the user to change his information.



In this Scene, it shows the hierarchy of the company. Also, it allows the user set the division, directorate and department. Also, it allows the user to generate jobs and job bands and add employees who has already been offered a job.



In this Scene, it shows the point of view of the TA actor to choose between these scenes Candidates, Hierarchy and Job Offers.



In this Scene, it shows the main page of the program. It allows the user to choose between the two actors TA and Interviewer.