Object Orientated Programming

Mid Term Project Detailed Requirements

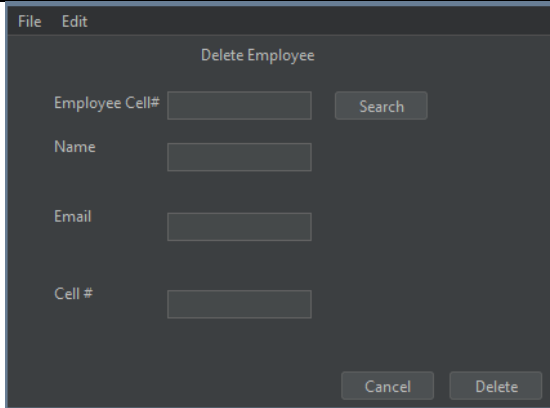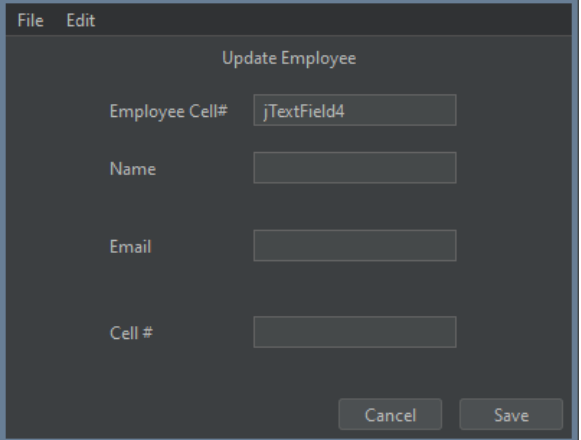|	
Registration Number	2020-CS-144
Student Name	Faraz Ahmad
Project Name	Procurement Management System
Project Description	Almost in every office and workplace, workers need different equipment to carry out their tasks. Whether it is a bank, a department in the university, or an office of a multinational company, there is a storage room for accessories (printing papers, paper clips, stapler, laptop, computer peripherals, etc.) from which workers can borrow stuff for the office use and return. The company must keep a record where they can see how much equipment was bought, how much more items are needed to fulfill the demand, and the cost of the purchased items from the market as there is of course no unlimited supply of items. So, the company hires a person who maintains this record. To make this data handling easier software is developed which mimics the register so the company can easily see the record. An employee approaches the person in charge who wants to borrow some stuff for his office use. His details will be entered, and he can take the requested item. If it is a consumable item, there won't be any check that it will be returned. But if it is a non-consumable item, there will be mentioned that it is with employee X and will be returned to the inventory. Every employee will have their record with the in charge. No one can issue an item without the approval of the person in charge. A receipt will be generated for each issuance in the name of the beneficiary.
Actors of the System	• Procurement Manager • Employee

Use Case # 1

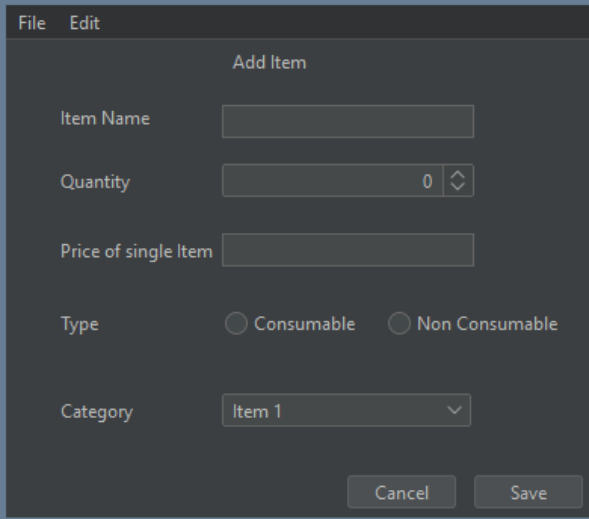| Use Case Name	Add Employee		
Primary Actor	Procurement Manager		
List of Fields on screen	Field Name	Component	Validation
	Name of Employee	Textbox	Text only(alphabets)
	Email	Text Area	Email
	Cell Number	Text box	Numeric(11 digits)
How to Access the use case	Top Menu > Manage Employee > Add Employee		
On Success Return to Screen	List of Employees		
Screen Design	File Edit Add Employee Name Email Cell # Cancel Save		

Use Case # 2

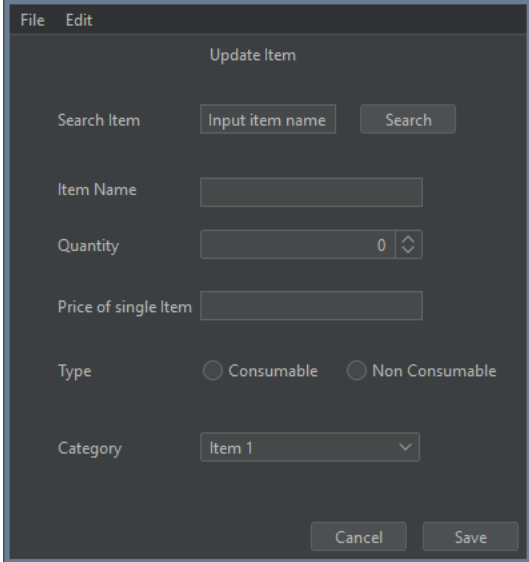| Use Case Name	Delete Employee		
Primary Actor	Procurement Manager		
List of Fields on screen	Full Name	Component	Validation
	Name of Employee	Textbox	Text only(alphabets)
How to Access the use case	Top Menu > Manage Employee > Delete Employee		
On Success Return to Screen	List of Employees		
Screen Design	File Edit Delete Employee Employee Cell# Search Name Email Cell # Cancel Delete		

Use Case # 3

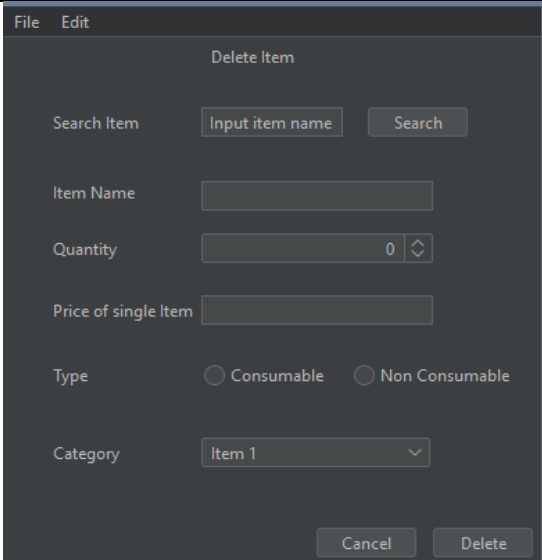| Use Case Name	Update Employee		
Primary Actor	Procurement Manager		
List of Fields on screen	Field Name	Component	Validation
	Name of Employee	Textbox	Text only(alphabets)
	Email	Text Area	Email
	Cell Number	Text box	Numeric(11 digits)
How to Access the use case	Top Menu > Manage Employee > Update Employee		
On Success Return to Screen	List of Employees		
Screen Design			

Use Case # 4

Use Case Name	Add Item		
Primary Actor	Procurement Manager		
List of Fields on screen	Field Name	Component	Validation
	Name of Item	Textbox	Text only(alphabets)
	Quantity	Spinner	Numeric
	Price	Text box	Numeric
	Category	Radio button	None
	Type	Radio Button	None
How to Access the use case	Top Menu > Manage Inventory > Add Item		
On Success Return to Screen	List of Items		
Screen Design			
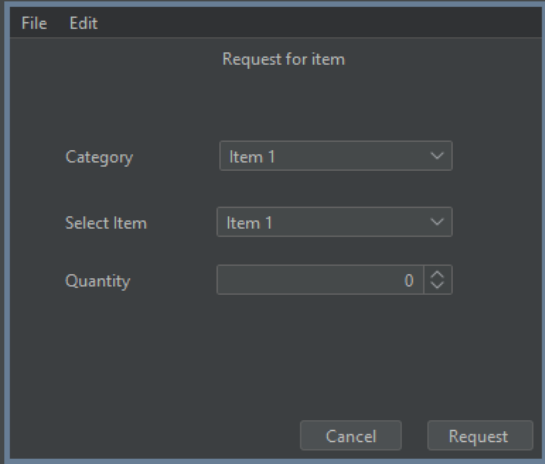
Use Case # 5

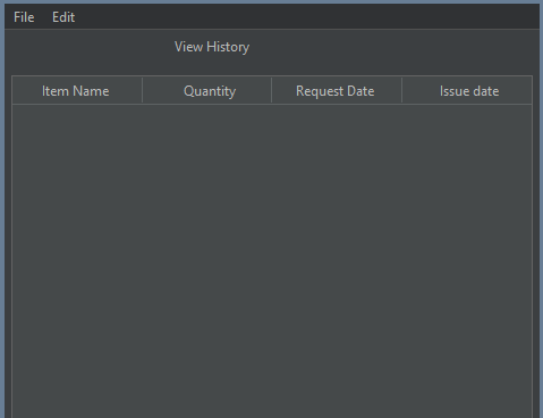| Use Case Name	Update Item		
Primary Actor	Procurement Manager		
List of Fields on screen	Field Name	Component	Validation
	Name of Item	Textbox	Text only(alphabets)
	Quantity	Spinner	Numeric
	Price	Text box	Numeric
	Category	Combo box	None
	Type	Radio Button	None
How to Access the use case	Top Menu > Manage Inventory > Update Item		
On Success Return to Screen	List of Items		
Screen Design			

Use Case # 6

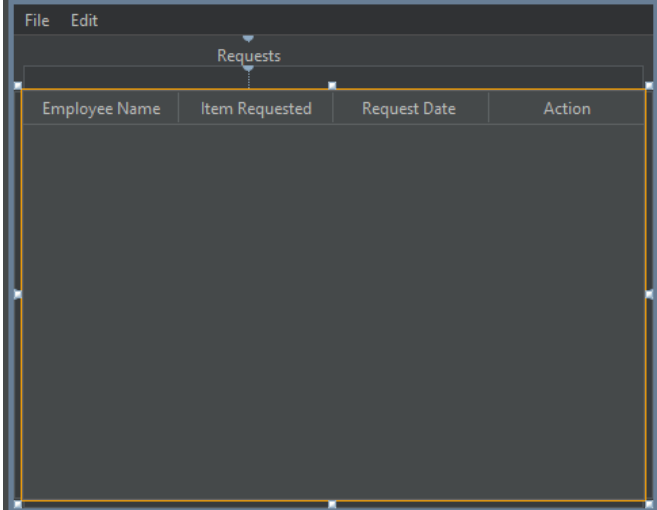| Use Case Name	Delete Item		
Primary Actor	Procurement Manager		
List of Fields on screen	Field Name	Component	Validation
	Name of Item	Textbox	Text only(alphabets)
How to Access the use case	Top Menu > Manage Inventory > Delete Item		
On Success Return to Screen	List of Items		
Screen Design			

Use Case # 7

Use Case Name	Issue Item		
Primary Actor	Employee		
List of Fields on screen	Field Name	Component	Validation
	Category	Combo box	
	Select Item	Combo box	
	Quantity	Spinner	Numeric
How to Access the use case	Top Menu > Request Item		
On Success Return to Screen	Receipt		
Screen Design			

Use Case # 8

Use Case Name	View History		
Primary Actor	Employee		
List of Fields on screen	Field Name	Component	Validation
	Employee Cell#	Textbox	Numeric
How to Access the use case	Top Menu > View History		
On Success Return to Screen	Top Menu		
Screen Design			

Use Case # 9

Use Case Name	View Requests		
Primary Actor	Procurement Manager		
List of Fields on screen	Field Name	Component	Validation
	Name of Employee	Textbox	
	Item Name	Textbox	
	Quantity	Text	
	Generate receipt or delete request	Buttons	
How to Access the use case	Top Menu > View Requests		
On Success Return to Screen	Top Menu		
Screen Design			

Use Case # 10

Format of Data in Files

File Name	Employee.txt or .dat for security
Type	Text File
Data format	NAME,EMAIL,CELL

File Name	Record.csv
Type	MS Excel File
Data format	Data of all employees in table format