
TSE2101 Final Report

for

<Project>

Version <X.X>

Group No.: *<place your group number here>*

<name>	<student #>
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<name>	<student #>

Date: <place the date of submission here>

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Revisions

Version	Primary Author(s)	Description of Version	Date Completed
Draft Type and Number	Full Name	Information about the revision. This table does not need to be filled in whenever a document is touched, only when the version is being upgraded.	00/00/00

1. Project Management

1.1. Team Members

Mahmoud Abdalazim 1132702480 (Programmer Leader and Project Leader)
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1.2. Project Plan

<TO DO: Briefly describe the software process model and the main activities in the project. Place the Gantt chart also.>

2. System Overview

2.1. Description

The museum management system is a system that has several functions which provide seamless ways for employee to accomplish their tasks properly with security and credibility. Each employee is authorized to access some part of the system that are related to his/her task inside the museum

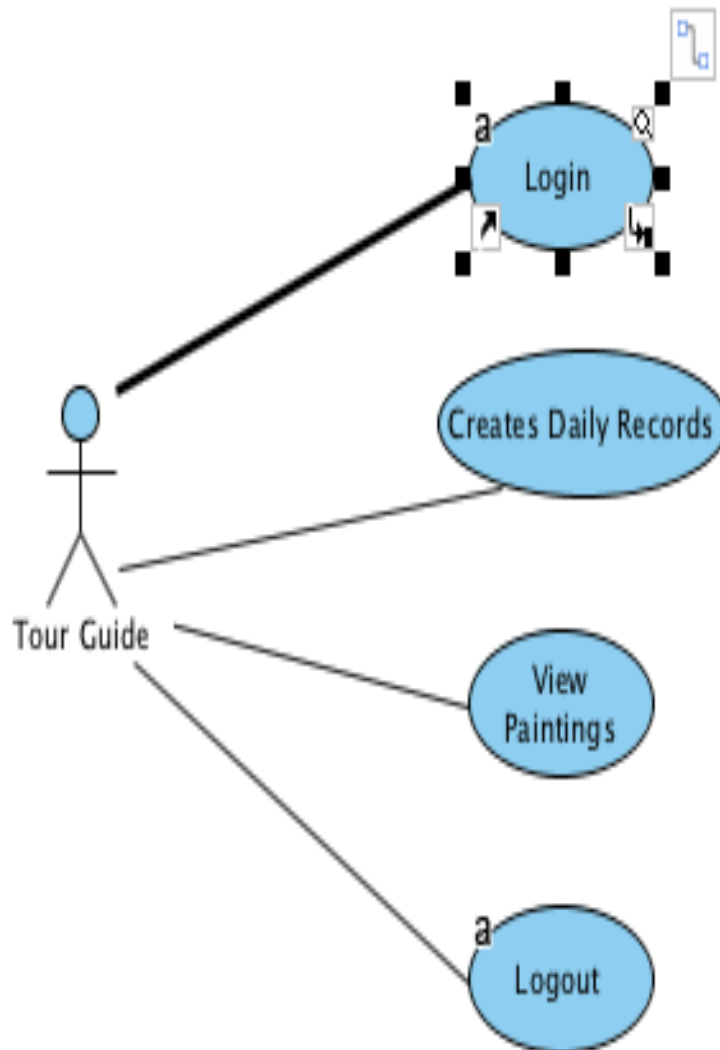
Actors

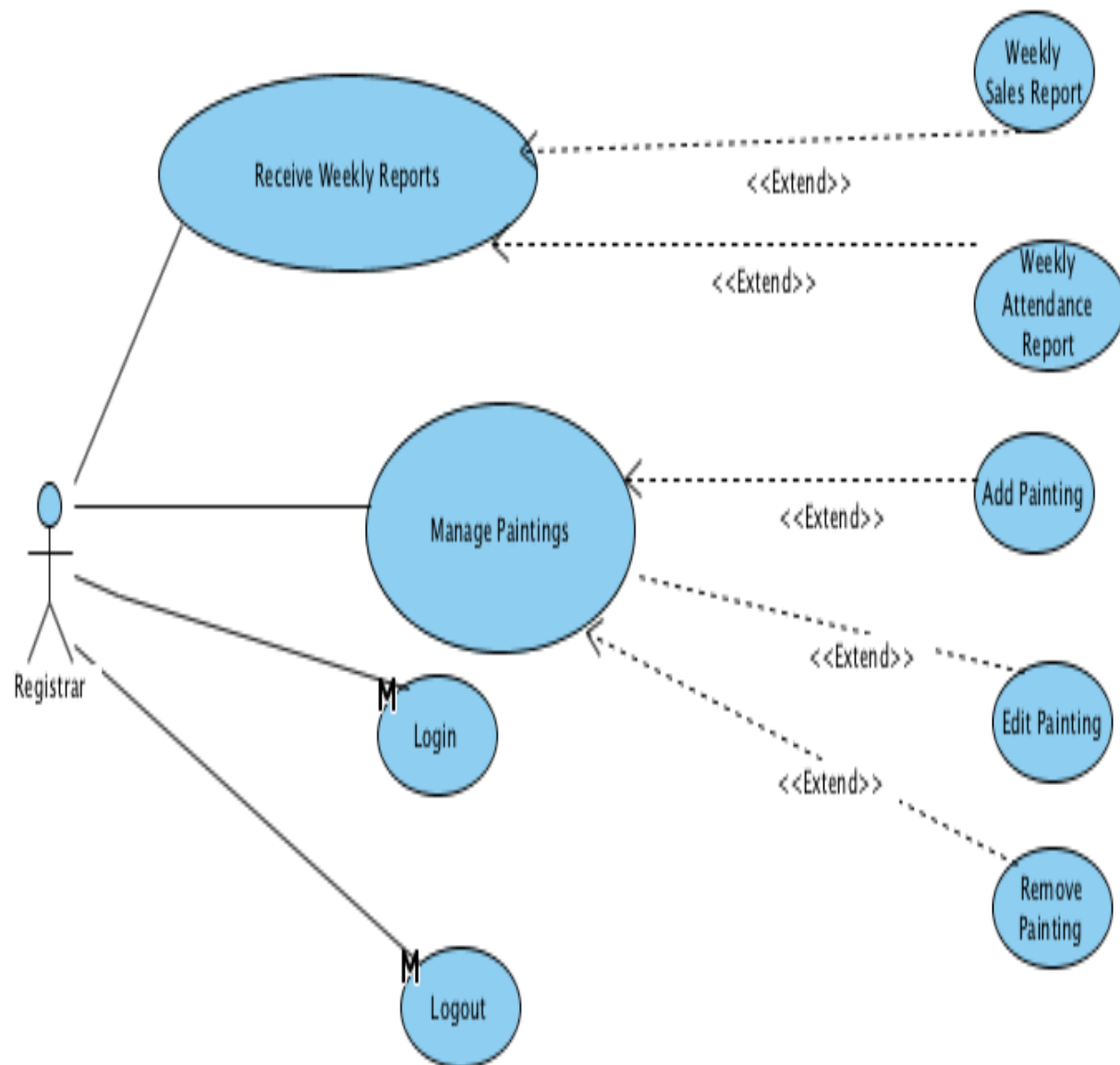
- 1- Registrar : capable to manage the records of paintings and view employee attendance and ticket sales reports.
- 2- Sale Agent : capable to sell tickets and send ticket sales report to the registrar.
- 3- Tour Guide : capable to view the records of paintings and create daily schedule.
- 4- Staff Manager : capable to manage the attendance of the employee and send an attendance report to the registrar. Also, he is responsible to add, edit and remove employee who orates in the museum.

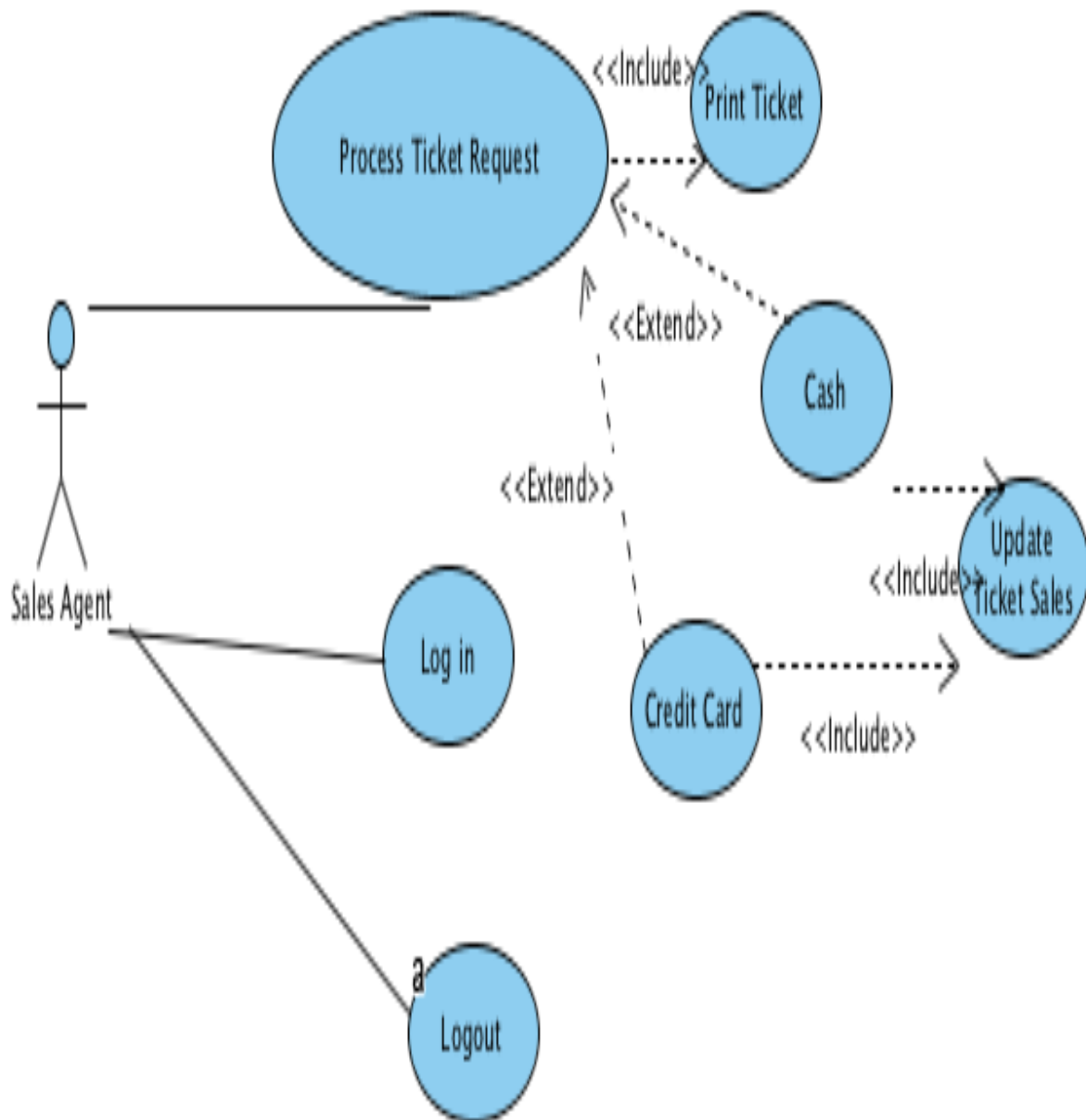
Assumptions and Dependencies

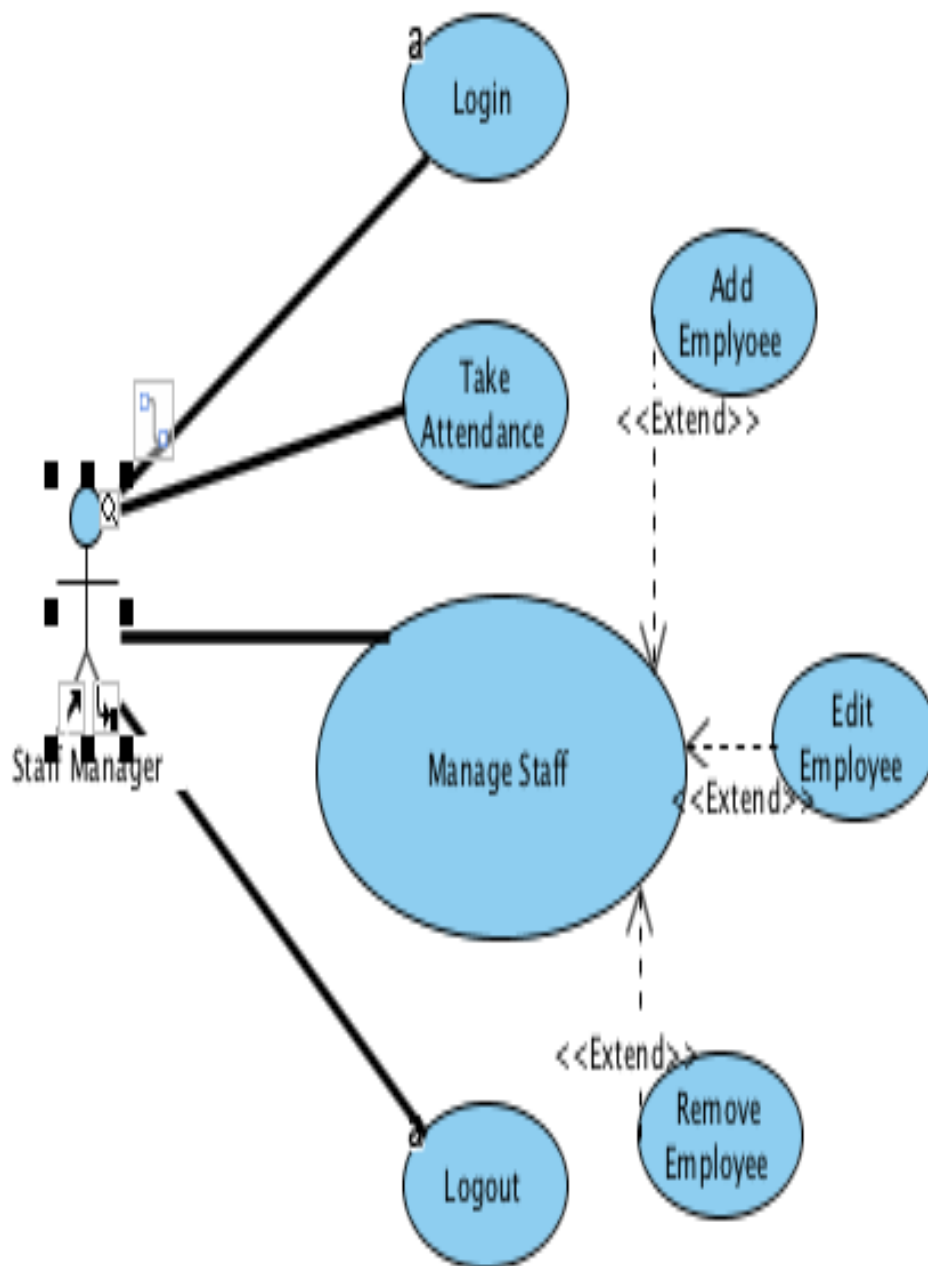
1. The system will be used on multiple units.
2. Failing of credit card payment might cause transaction fail.
3. The system is not maintained constantly which may create bugs
4. The software is not being updated with new features that allow more users to make use of it.

2.2. Use Case Diagram









3. Basic Requirements

3.1. Actor 1

3.2. Login

The registrar is provided with username and password for accessing the system.

3.2.2. Manage Records of Paintings

The registrar is responsible to add, edit and remove details of paintings. For example, information of a new arrival painting can be added in the system by the register.

3.2.3. View Reports

The registrar can view reports which are sent by the sale agent and the stuff manager. For example, Ticket sale reports provides the details of the tickets that are sold so that the registrar can check the financial state of ticket sales. Also, the registrar can check the state of the employee in terms of the attendance by displaying the attendance report.

3.1.1. Sale Agent

3.2.1. Login

The sale agent is provided with username and password for accessing the system.

3.2.2. Process Ticket Request

The sale agent is authorized to access ticket sales part so he/she is responsible for sell tickets to costumers and the process payment. Moreover, he is responsible to update ticket sale to avoid inaccurate report which must be sent to the registrar.

3.1.2. Tour Guide

3.3.1 Login

The tour guide is provided with username and password for accessing the system.

3.3.2 Create Daily Records

The tour guide has to create a daily schedule so that he/she can mange the time for the paintings that will be viewed.

3.3.3 View Painting

The tour guide can view the details of the paintings the are inserted by the registrar.

3.2. Staff Manager

3.4.1 Login

The staff manager is provided with username and password for accessing the system.

3.4.2 Take Attendance

The staff manager is responsible to insert the daily attendance report to the system and send it to the registrar.

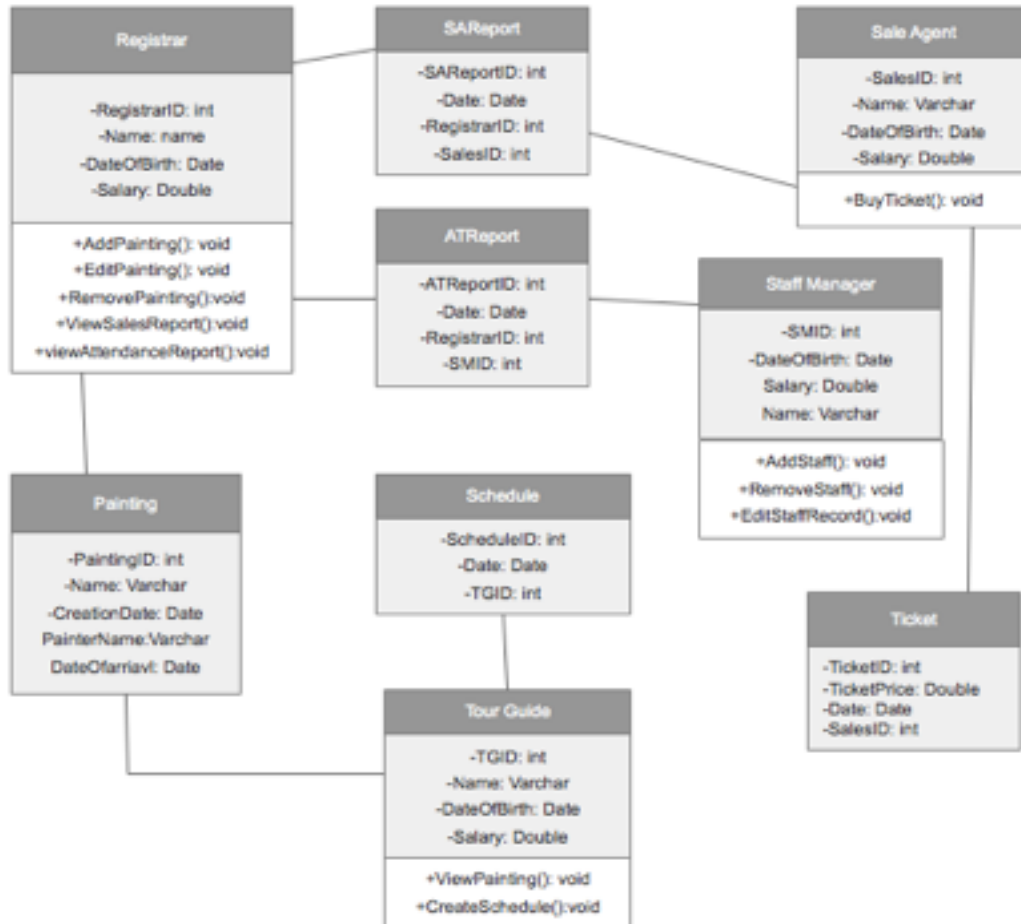
3.4.3 Manage Employee Records :

The staff manager is responsible to manage the details of employee such as adding the details of a new employee to the system.

4. Specific Requirements

4.1. Class Diagrams

If the screen shot of classes diagram is not clear, please check it in submit file.



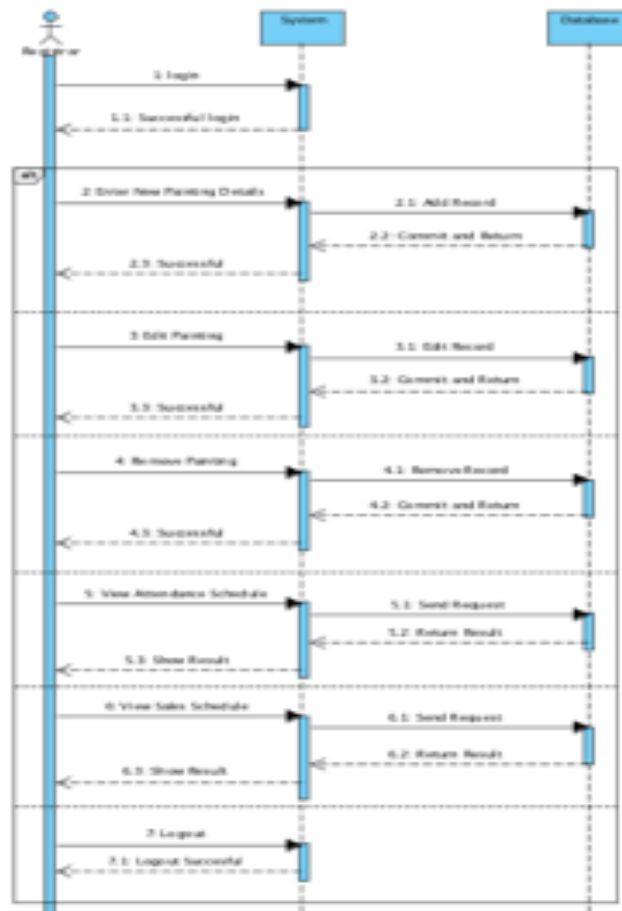
5. Behavioural Requirements

5.1. Sequence Diagram

Note : if the sequence diagrams are not clear, please check them in submit file.

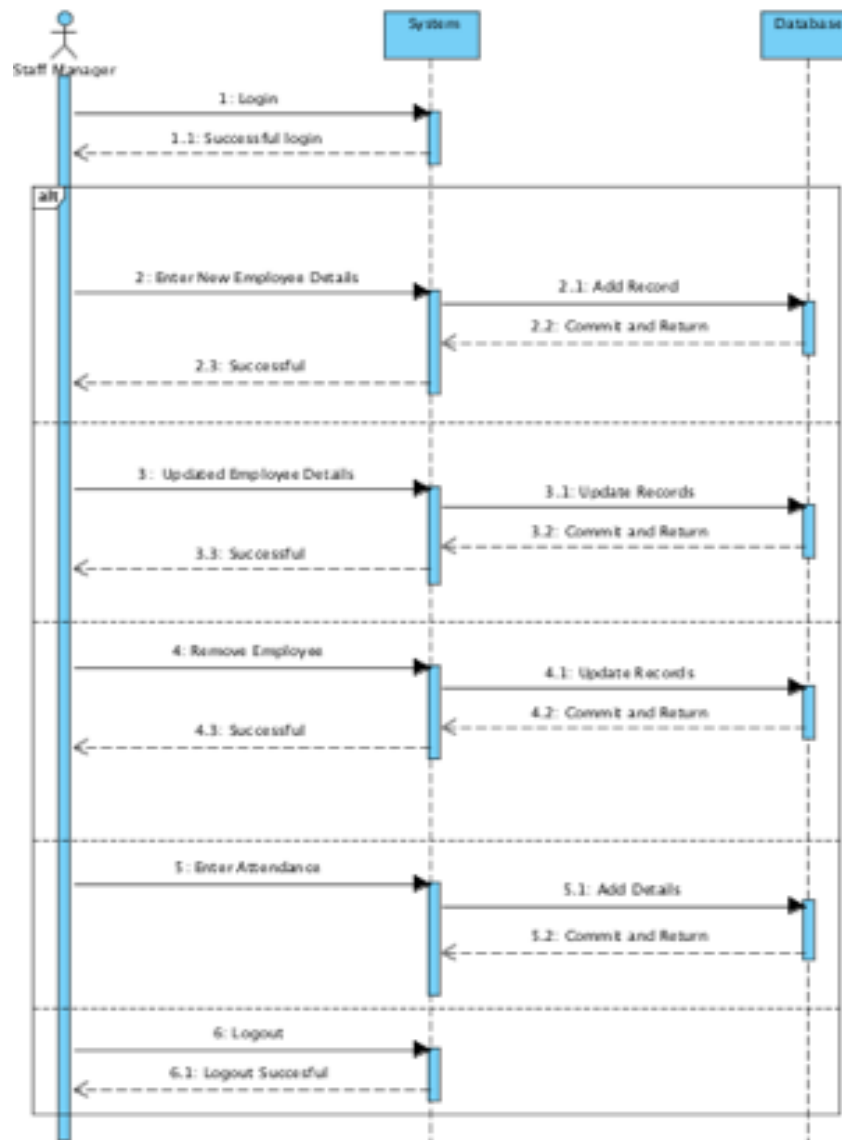
Registrar :

This sequence diagram illustrates the interaction between the registrar and the system. as shown, the registrar has to login with valid username and password. Once the registrar access the system, he/she can choose one of three options which are manage paintings, view reports and logout. Also, the registrar has indirect interaction with database which can be managed by the system. This interaction allows the registrar to add, edit and remove records from the database and viewing the reports from the database.



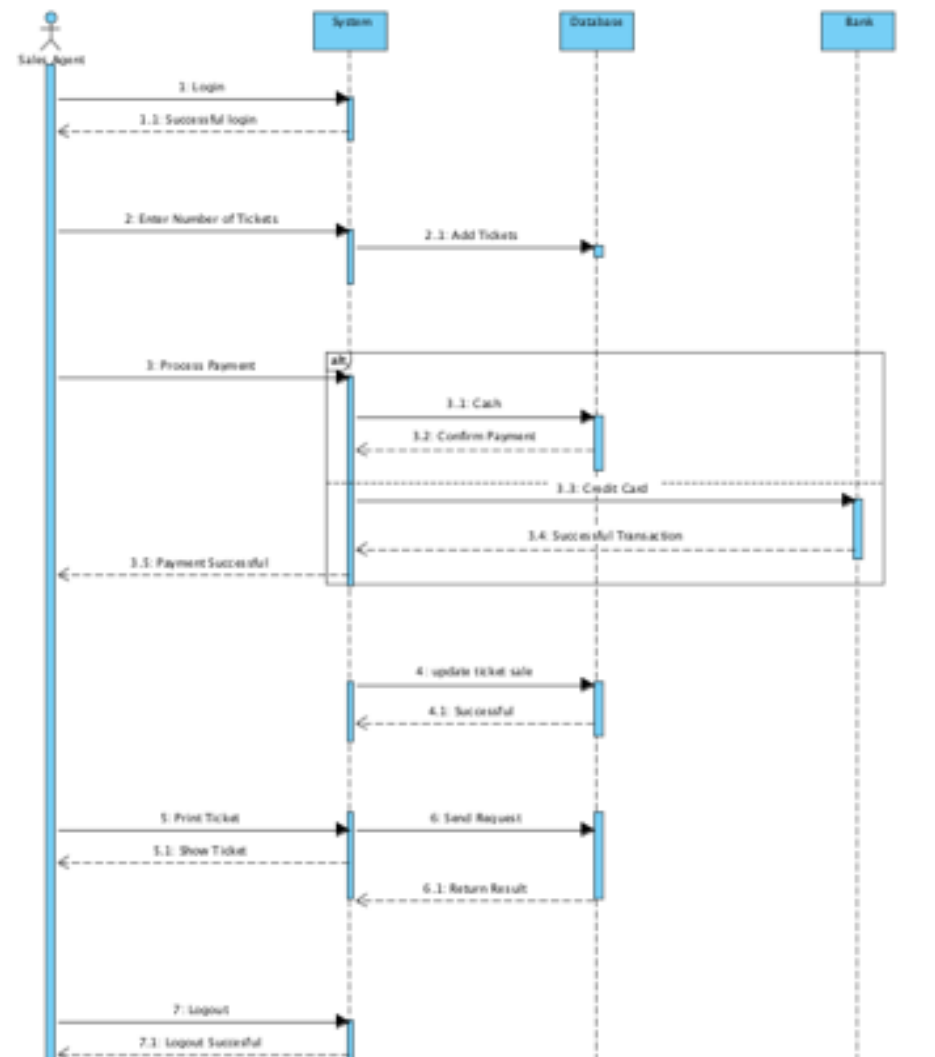
Staff Manager :

This sequence diagram illustrates the interaction between the sale agent and the system. as shown, the registrar has to login with valid username and password. Once the registrar access the system, he/she can choose one of three options which are Enter New Employee Details, Update Employee Details and Logout. The sale agent can interact with database by the system.



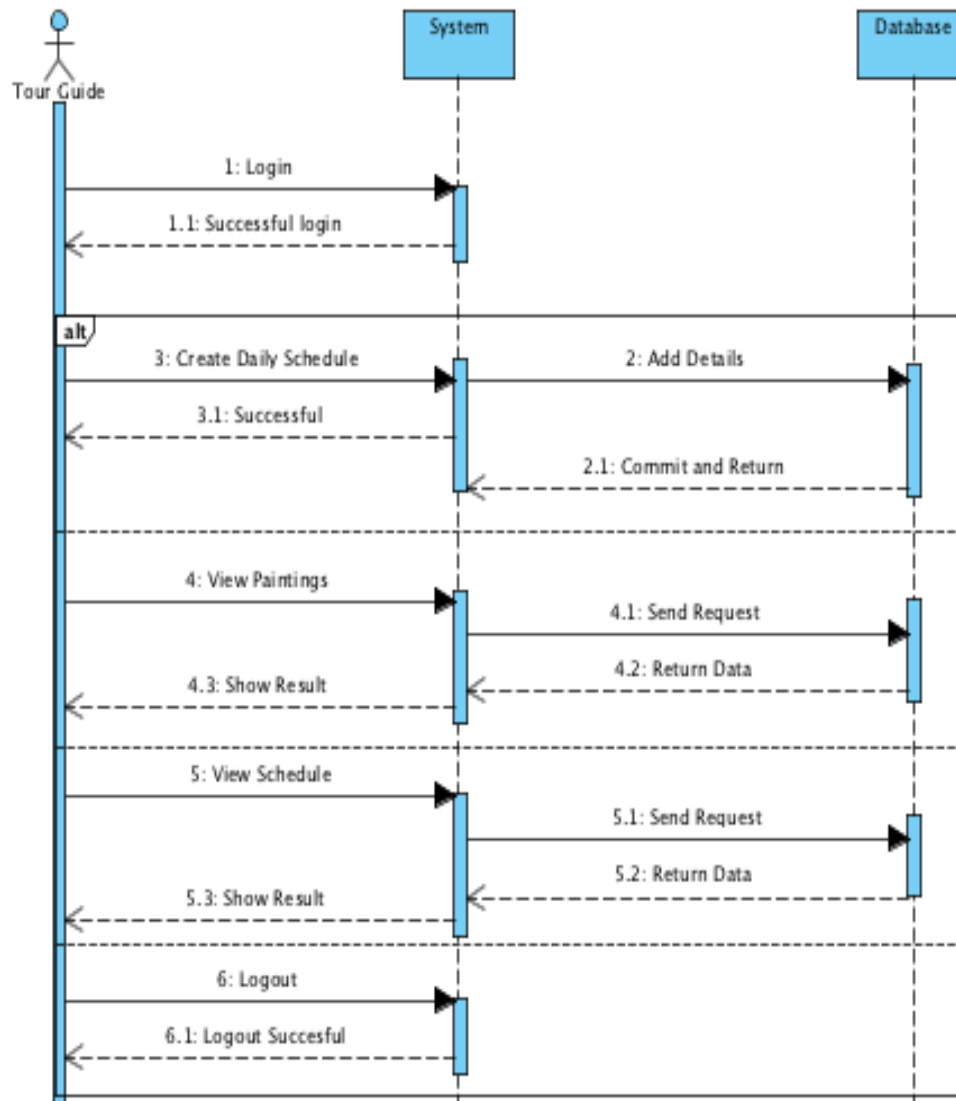
Sale Agent :

This sequence diagram illustrates the interaction between the sale agent and the system. As shown, the sale agent has to login with valid username and password. Once the sale agent accesses the system, he/she has to do the process ticket request step by step. Firstly, the sale agent has to enter how many tickets will be sold for each time there is a customer. Then, starting with the payment process that is involved with database to insert ticket sales and bank to check if the payment with credit card is valid. At the end, the sale agent prints the tickets on the screen. Once this is done, the information of this process is inserted into the file report in database so that it can be viewed by the registrar.



Tour Guide :

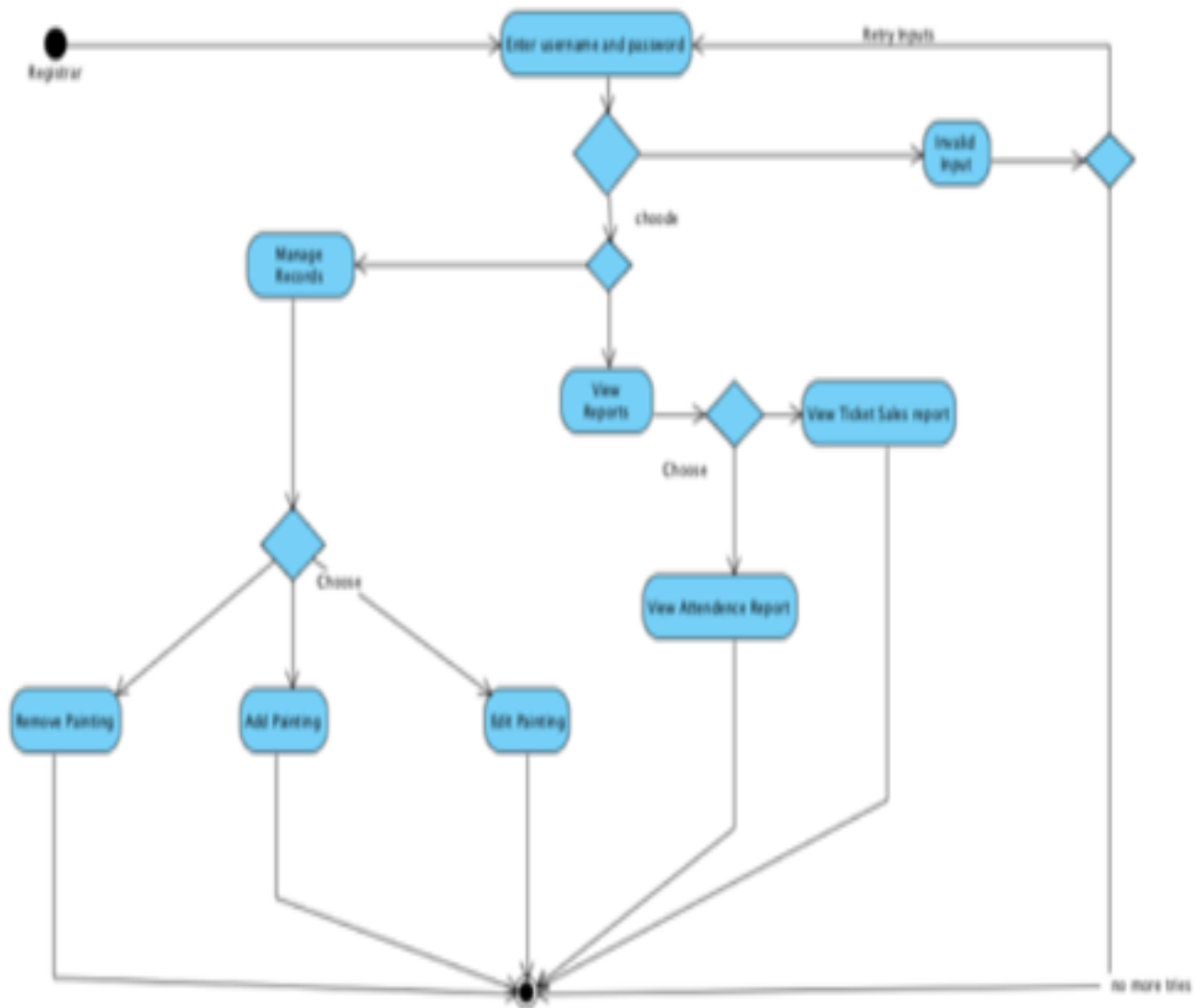
This sequence diagram illustrates the interaction between the tour guide and the system. as shown, the tour guide has to login with valid username and password. Once the tour guide access the system, he/she can choose one of four options which are Create Daily Schedule, View Paintings, View Schedule and Logout.



5.2. Data Flow Diagrams

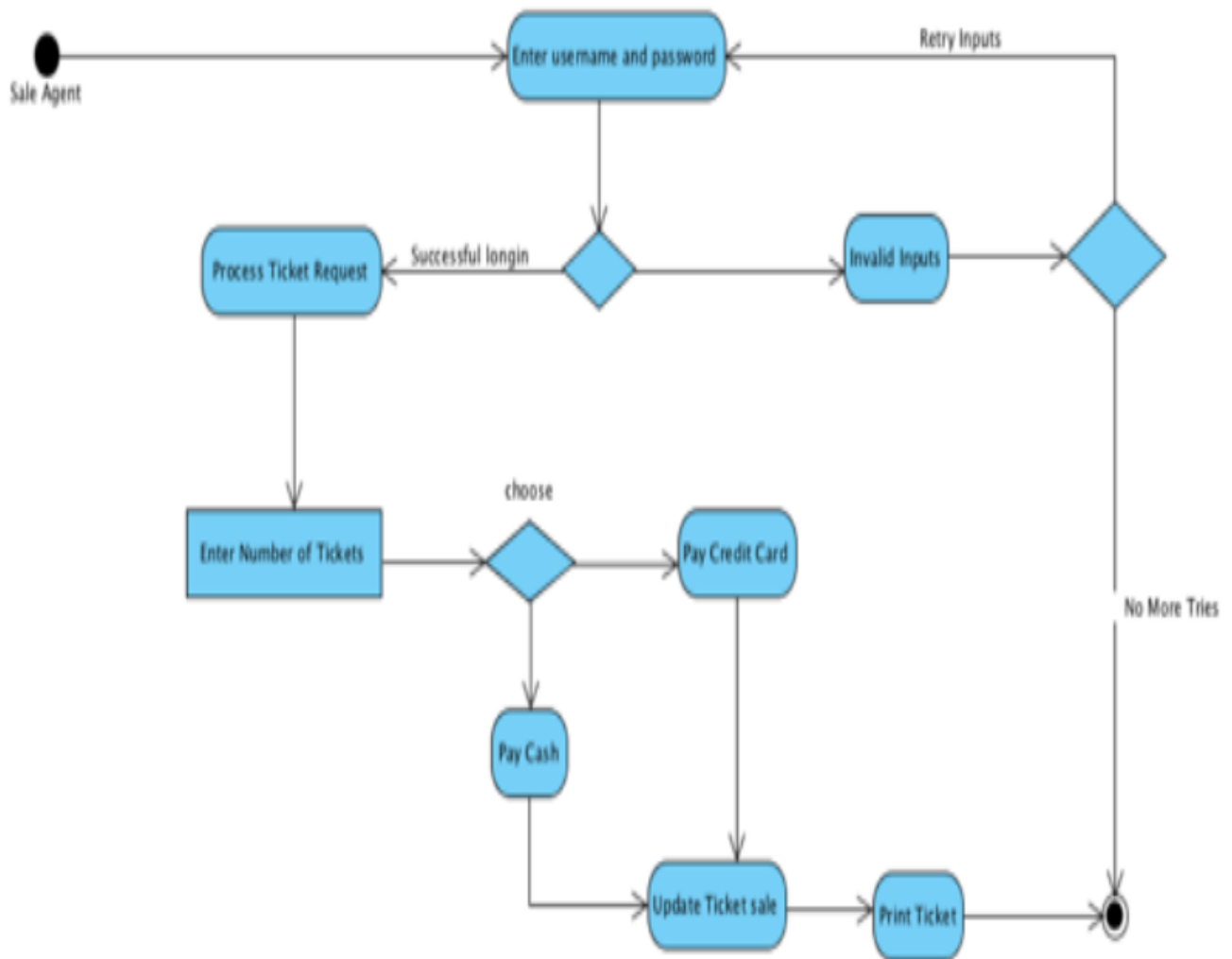
1- Registrar :

This state diagram illustrates the interaction between the registrar and the system. as shown, the registrar has to login with valid username and password. Once the registrar access the system, he/she can choose one of three options which are manage paintings, view reports and logout.



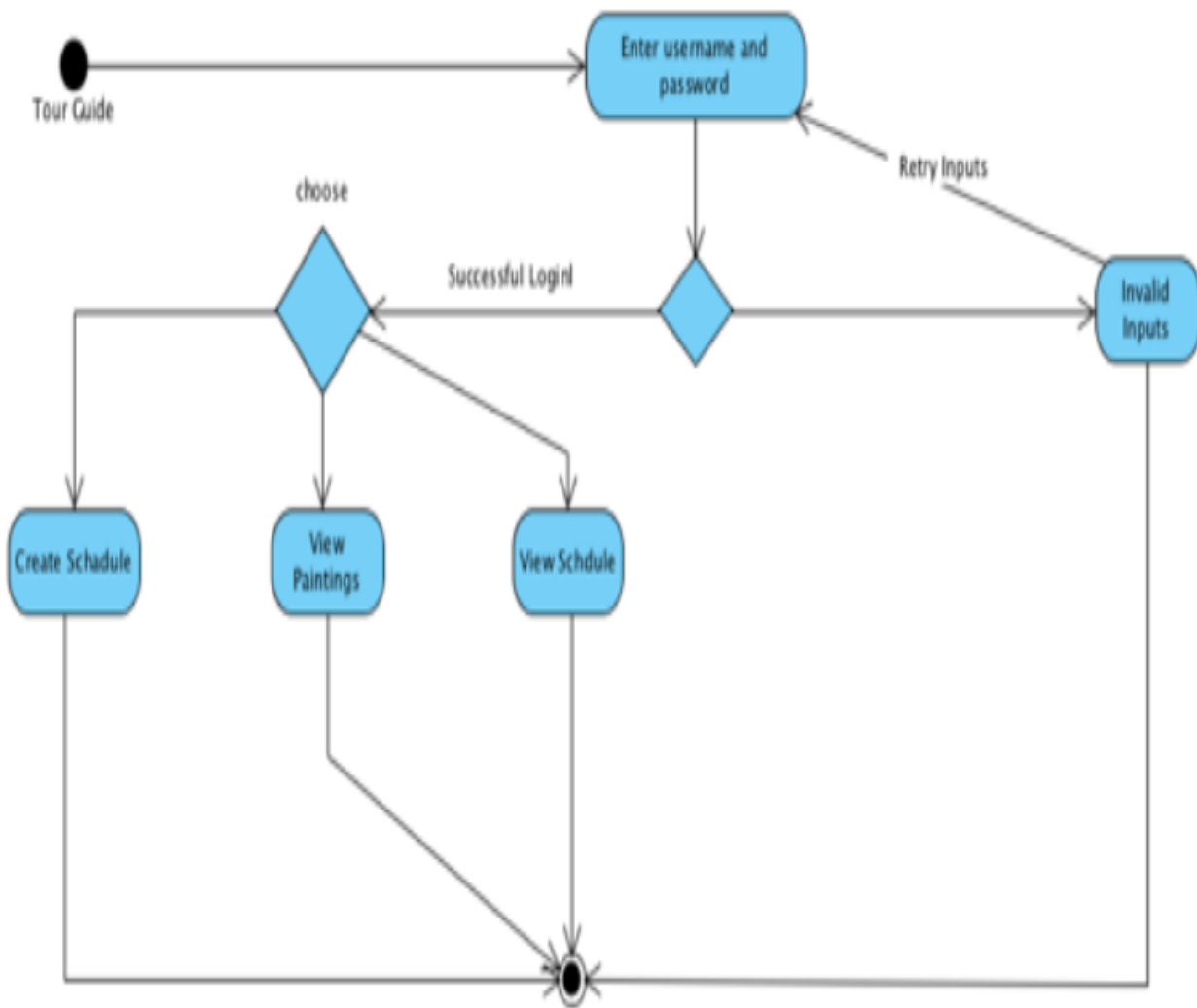
2- Sale Agent:

This state diagram illustrates the interaction between the sales agent and the system. as shown, the sales agent has to login with valid username and password. Once the sales agent access the system, he/she can choose one of three options which are Enter New Employee Details, Update Employee Details and Logout. The sale agent can interact with database by the system.



3- Tour Guide:

This state diagram illustrates the interaction between the tour guide and the system. as shown, the tour guide has to login with valid username and password. Once the tour guide access the system, he/she can choose one of four options which are Create Daily Schedule, View Paintings, View Schedule and Logout.



Alm, 2002, 10/10/2002

4 Staff Manager :

This state diagram illustrates the interaction between the staff manager and the system. as shown, the staff manager has to login with valid username and password. Once the staff manager access the system, he/she can choose one of four options which are Create Daily Schedule, View Paintings, View Schedule and Logout.



6. Data Design

6.1. Data Dictionary

TABLE NAME	ATTR. NAME	DESC	TYPE	FORMAT	RANGE	REQUIRE D	PK OR FK	FK REF TABLE
Staff Manage- r	SMID		Int	xxxxxxxx xx	3333333 330- 3333333 39	Y	PK	
	Date of Birth		Date	dd/mm/ yyyy		Y		
	Salary		Double	xxxxx.xx		Y		
	Name		Varchar (30)	Xxxxxxxx		Y		
Sale Agent	Sales ID		Int	xxxxxxxx xx	4444444 40 - 4444444 49	Y	PK	
	Name		Varchar (30)	Xxxxxxxx		Y		
	Date of Birth		Date	dd/mm/ yyyy		Y		
	Salary		Double	xxxxx.xx		Y		
Ticket	Ticket ID		Int	xxxxxxxx xx		Y	PK	
	Ticket Price		Double	xxxxx.xx		Y		

TABLE NAME	ATTR. NAME	DESC	TYPE	FORMAT	RANGE	REQUIRE D	PK OR FK	FK REF TABLE
Schedule	Date		Date	dd/mm/yyyy		Y		
	Sales ID		Int	xxxxxxxxxx	44444444 40 - 44444444 49	Y	FK	Sale Agent
	Schedule ID		Int	xxxxxxxxxx		Y	PK	
	Date		Date	dd/mm/yyyy		Y		
	TGID		Int	xxxxxxxxxx	55555555 50 - 55555555 59	Y	FK	Tour Guide
	TGID		Int	xxxxxxxxxx	55555555 50 - 55555555 59	Y	PK	
Tour Guide	Name		Varchar (30)	Xxxxxxxxxx		Y		
	Date of Birth		Date	dd/mm/yyyy		Y		
	Salary		Double	xxxxx.xx		Y		

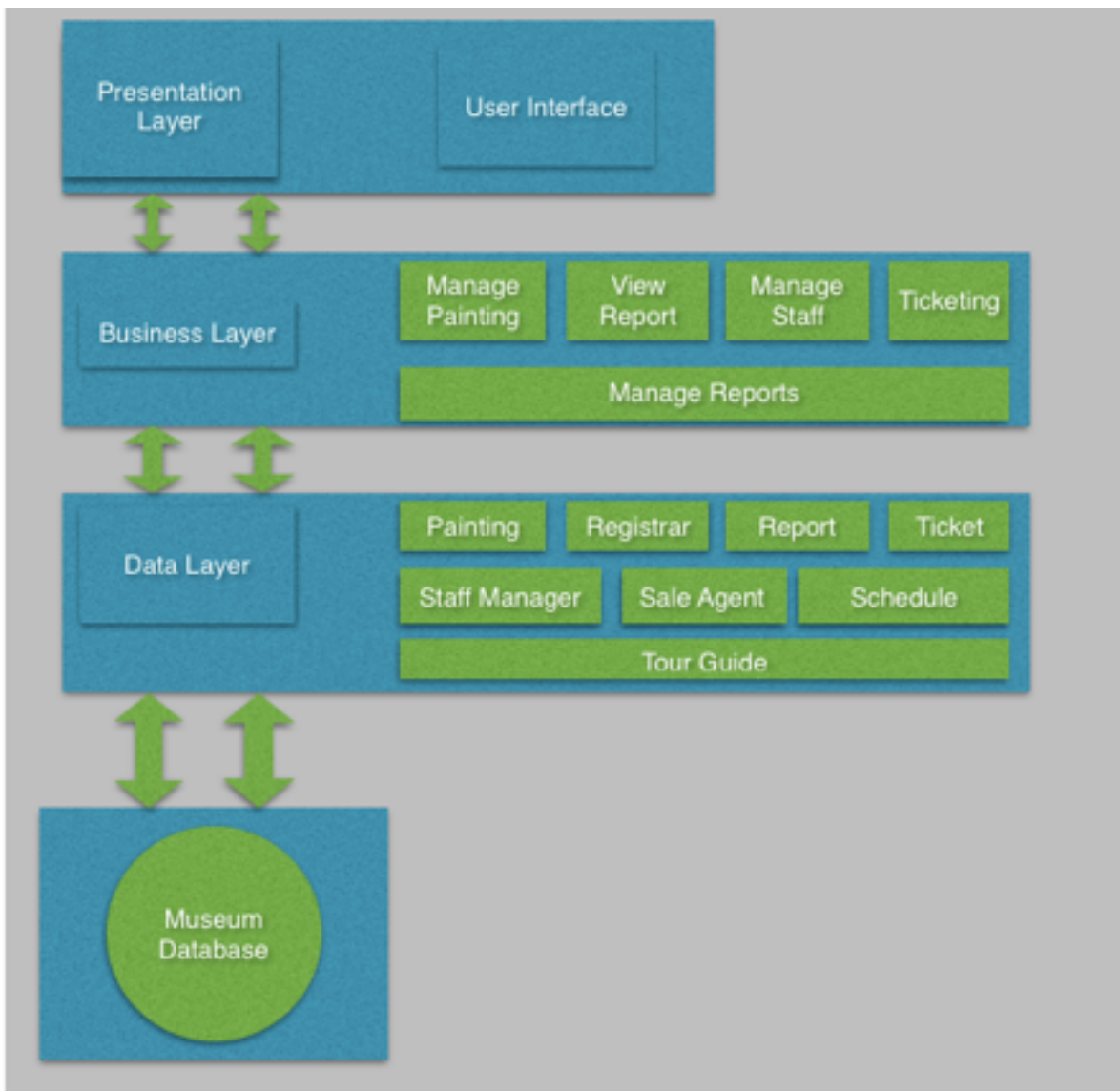
TABLE NAME	ARRT.NA ME	DESC	TYPE	FORMAT	RANGE	REQUIR ED	PK OR FK	FK REF TABLE
Painting	Painting ID		int	xxxxxxxxxx	111111110-999999999	Y	PK	
	Name		Varchar (30)	Xxxxxxxxxx		Y		
	creation date		Date	dd/mm/yyyy				
	Painter name		Varchar (30)	Xxxxxxxxxx				
	Date of arrival		Date	dd/mm/yyyy		Y		
Registrar	Registrar ID		int	xxxxxxxxxx		Y	FK	Registrar
	Registrar ID		int	xxxxxxxxxx		Y	PK	
	Name		Varchar (30)	Xxxxxxxxxx		Y		
	Date of Birth		Date	dd/mm/yyyy		Y		
	Salary		Double	xxxxx.xx		Y		
ATReport	ATReport ID		int	xxxxxxxxxx	????	Y	PK	
	Date		Date	dd/mm/yyyy		Y		
	Registrar ID		int	xxxxxxxxxx	????	Y	FK	Registrar
	SMID		int	xxxxxxxxxx	3333333330-3333333339	Y	FK	Staff Manager

TABLE NAME	ARRT.NA ME	DESC	TYPE	FORMAT	RANGE	REQUIR ED	PK OR FK	FK REF TABLE
SARepor t	SAReport ID		int	xxxxxxxx xx	????	Y	PK	
	Date		Date	dd/mm/ yyyy		Y		
	Registrar ID		int	xxxxxxxx xx	????	Y	FK	Registrar
	Sales ID		int	xxxxxxxx xx	4444444 40-44444 4449			

7. Architecture Design

7.1. Software Architecture

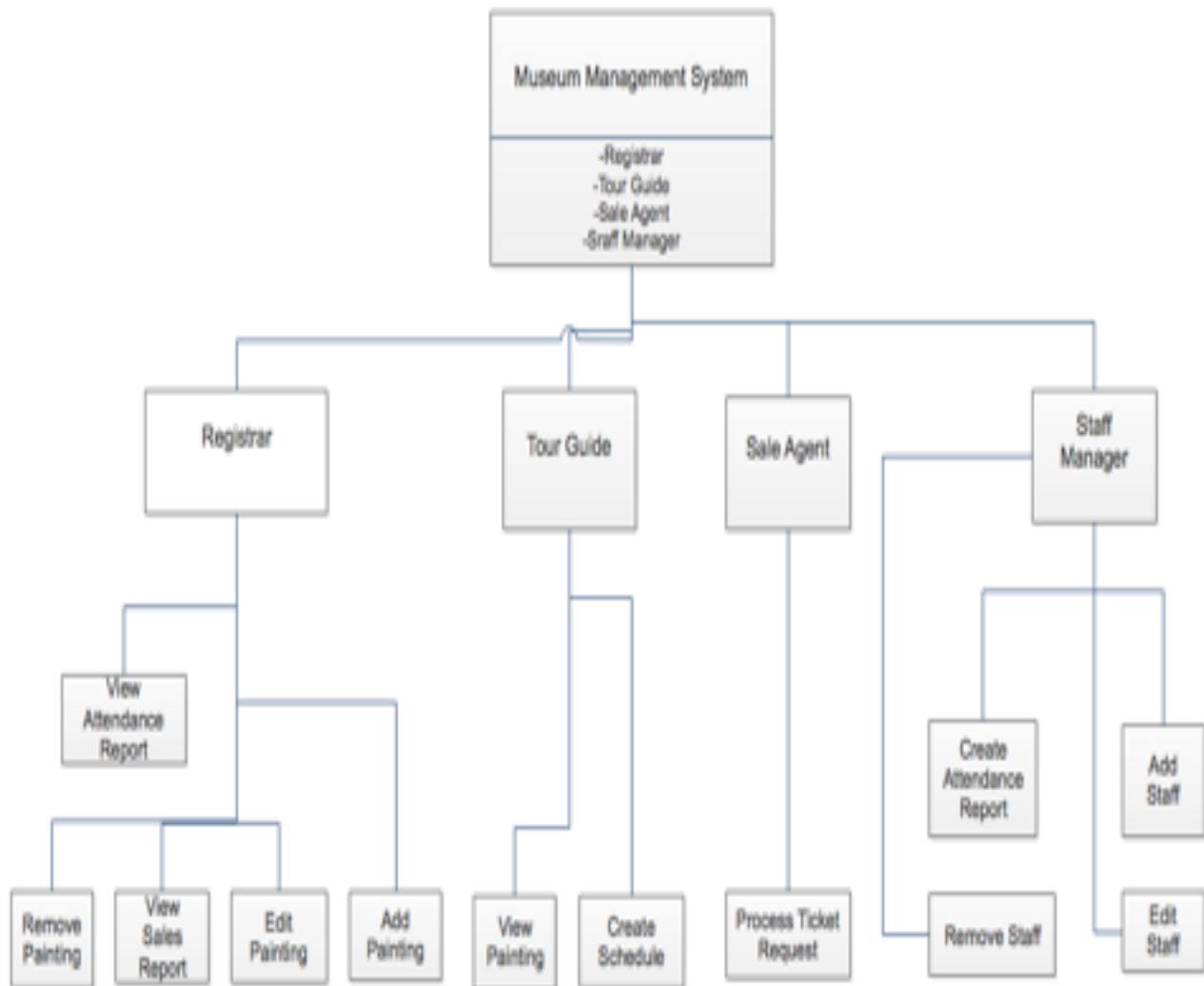
The software architecture represents the underlying design of the entire system. The business layer will be communicating with the presentation layer to provide functionality. It will also access the data layer to retrieve the data it need to perform its functions. The data layer in turn is connected to the Museum database which permanently hold the data.



7.1.1. Subsystem 1

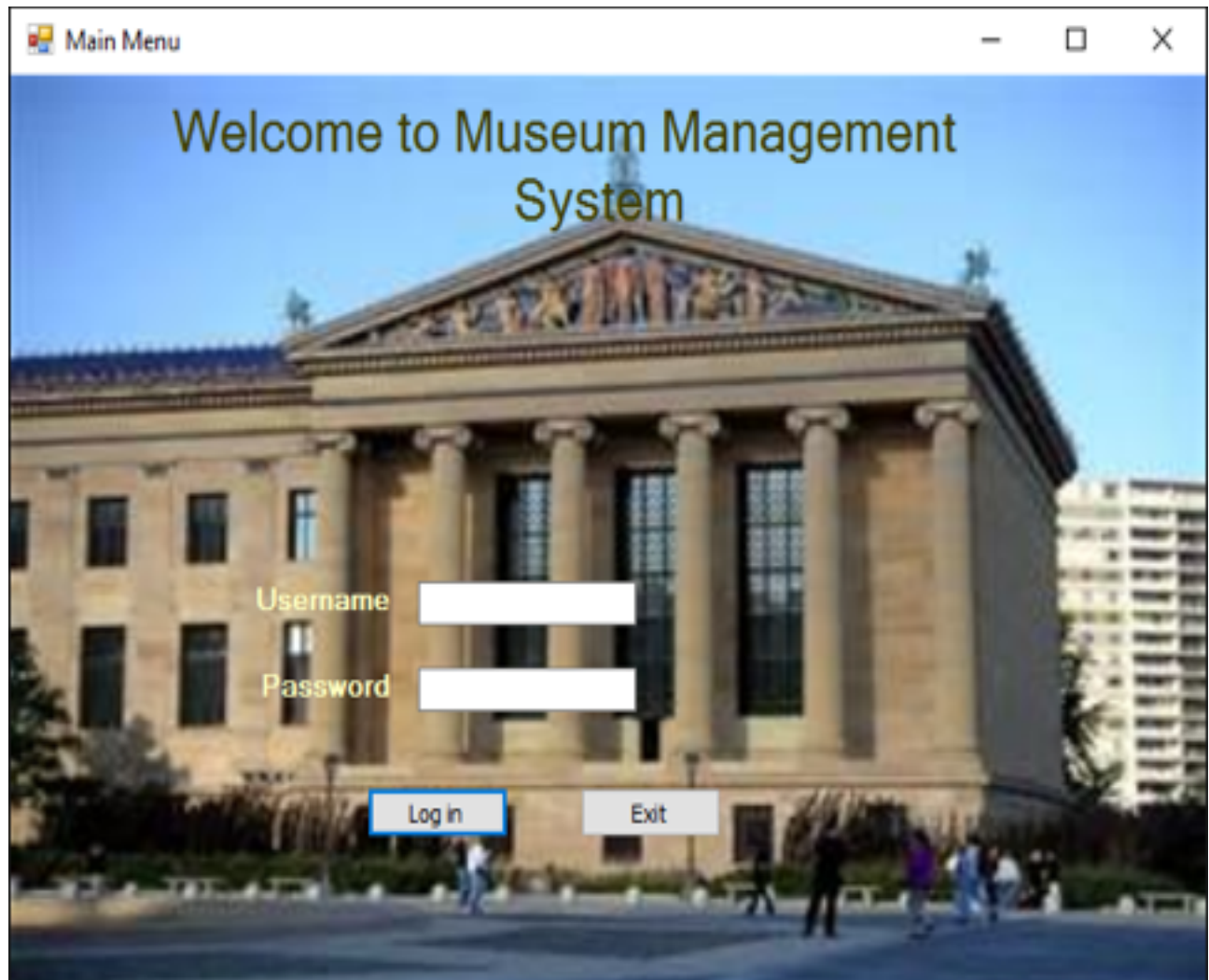
This subsystem represents all the functionality that the system offers with respect to its users. Following the subsystem diagram are the pseudocode used to define the implementation of these functions.

Note : if the subsystem is not clear, Please check it in submit file.

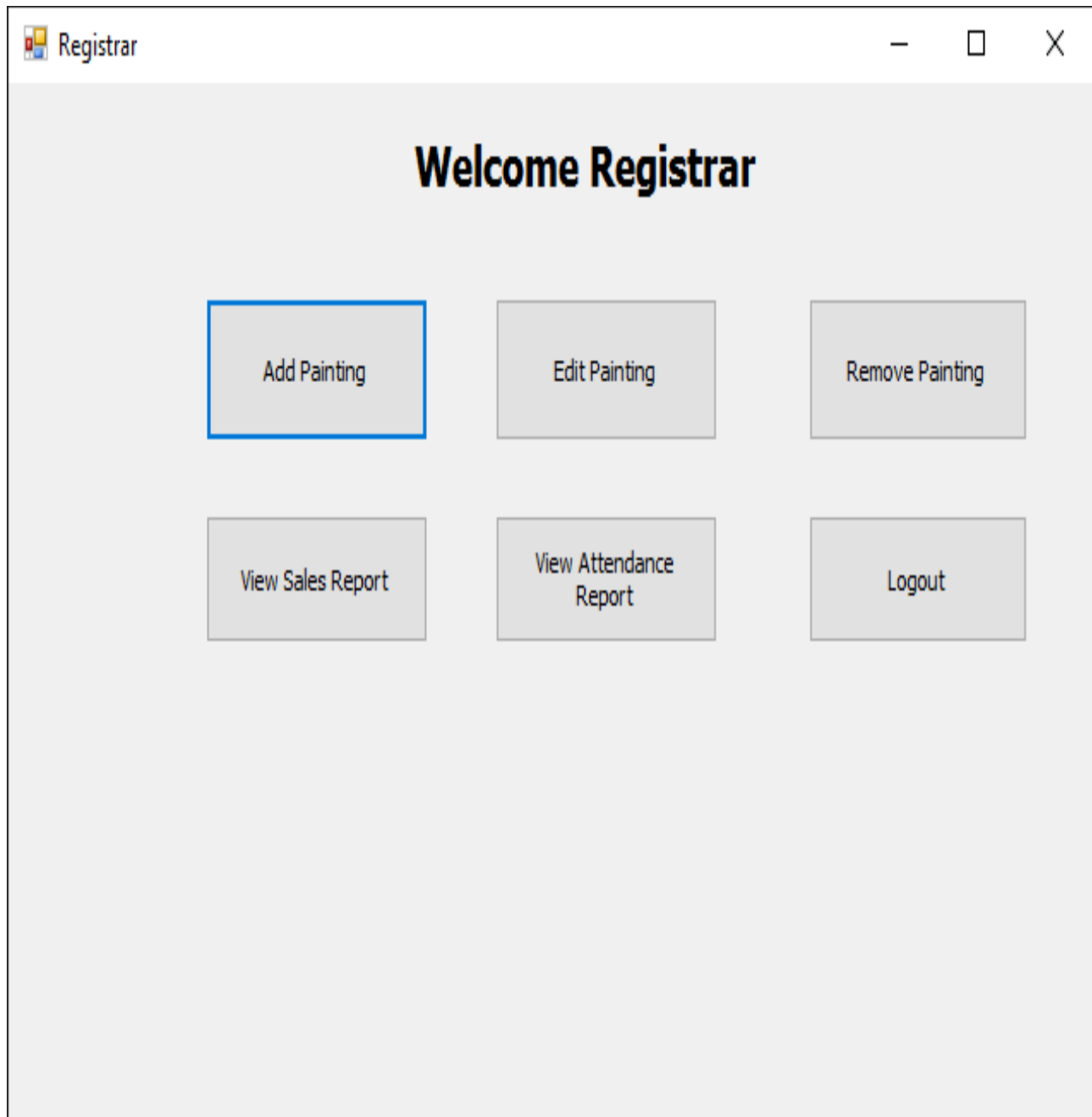


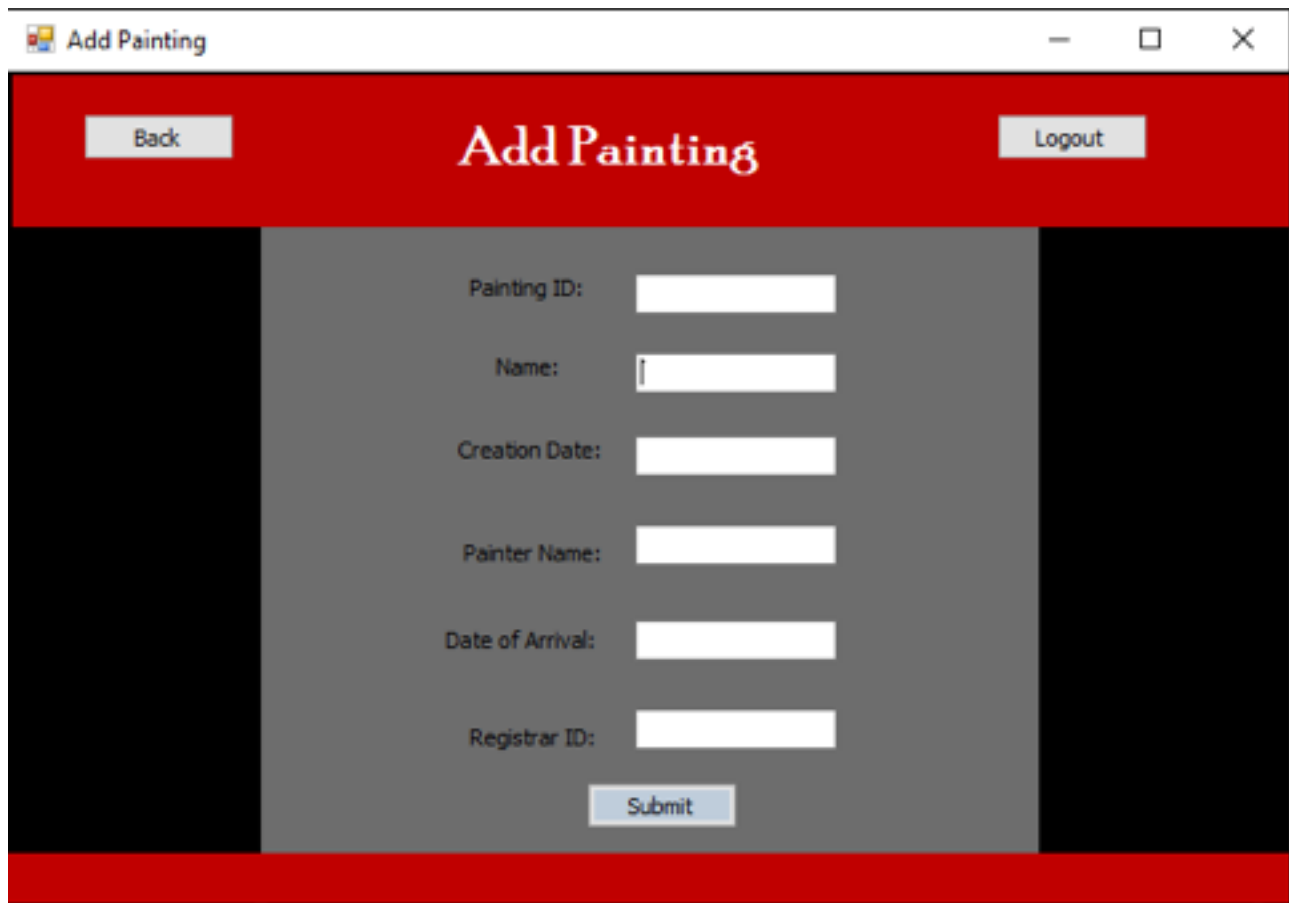
8. Interface Design

8.1. Main Screens



8.2. Registrar





The screenshot shows a web application window titled "Add Painting". The window has a red header bar with a "Back" button on the left, the title "Add Painting" in the center, and a "Logout" button on the right. The main content area has a gray background and contains six input fields with labels: "Painting ID:", "Name:", "Creation Date:", "Painter Name:", "Date of Arrival:", and "Registrar ID:". A "Submit" button is located below the input fields. The window has a standard Windows-style title bar with minimize, maximize, and close buttons.

Back Add Painting Logout

Painting ID:

Name:

Creation Date:

Painter Name:

Date of Arrival:

Registrar ID:

Submit

The screenshot displays a web application window titled "Edit Painting". The interface features a red header bar with a "Back" button on the left, the title "Edit Painting" in the center, and a "Logout" button on the right. The main content area has a gray background and is flanked by black vertical bars. On the left side of the main area, there is a red rectangular box containing the text "Painting ID", a white input field, and a "Search" button. On the right side, there is a form with six input fields, each preceded by a label: "Painting ID", "Painting Name:", "Creation Date:", "Painter Name:", "Date of Arrival:", and "Registrar ID:". A "Submit" button is positioned at the bottom center of the form area. The entire application is set within a standard window frame with minimize, maximize, and close buttons.

Edit Painting	
Back	Logout
Painting ID	Painting ID
	Painting Name:
	Creation Date:
	Painter Name:
	Date of Arrival:
	Registrar ID:
	Submit

The screenshot shows a web application window titled "Delete Painting". The window has a red header bar with the title "Delete Painting" in the center. On the left side of the header is a "Back" button, and on the right side is a "Logout" button. The main content area has a dark background. On the left side of the main area, there is a light gray box containing a "Painting ID:" label, a text input field, and a "Search" button below it. On the right side of the main area, there are five labels with corresponding text input fields: "Painting ID:", "Name:", "Creation Date:", "Painter Name:", and "Date of Arrival:". Below these fields is a "Registrar ID:" label with a text input field. At the bottom right of the main area, there is a "Delete" button. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

Delete Painting

Back Logout

Painting ID:

Name:

Creation Date:

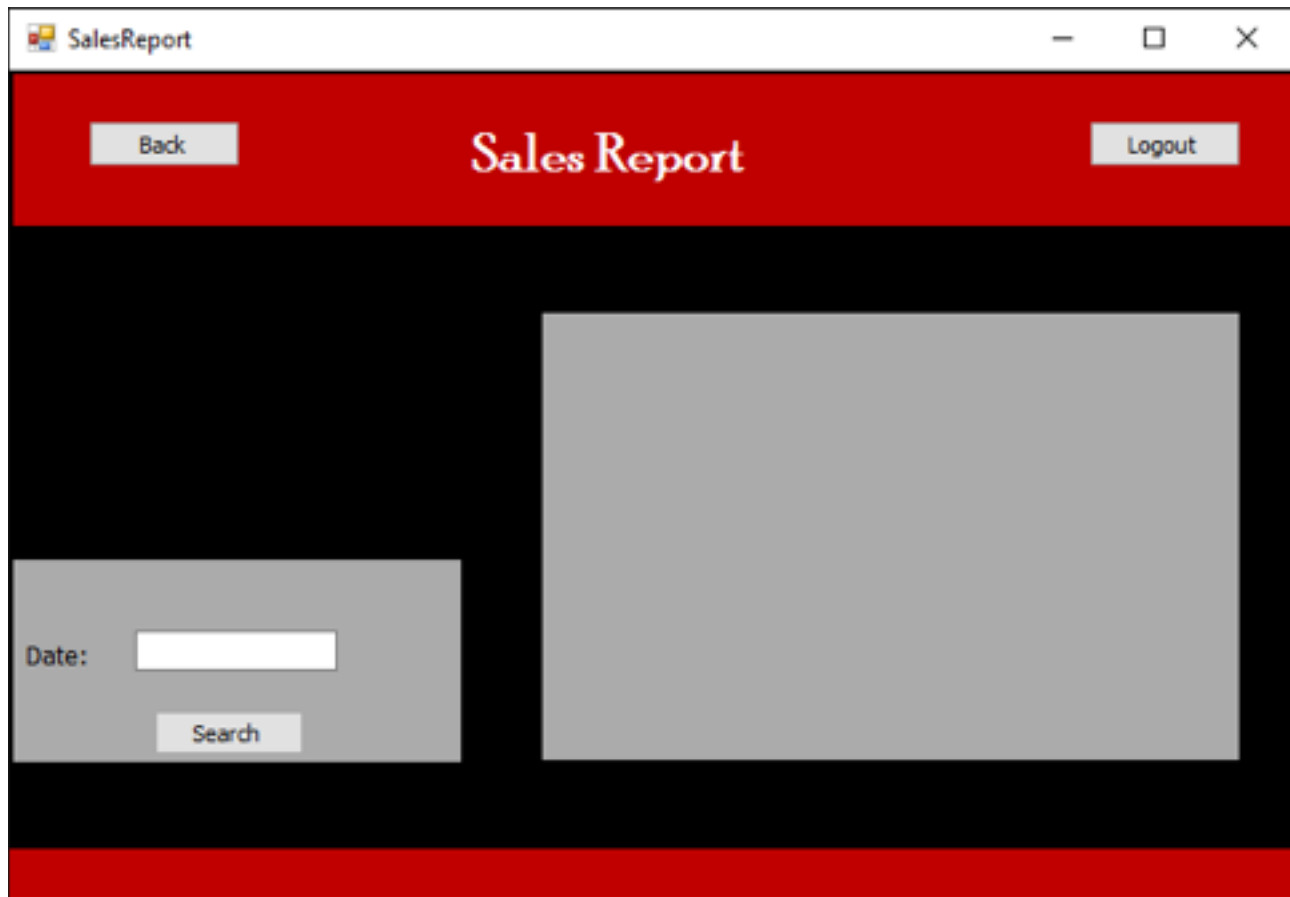
Painter Name:

Date of Arrival:

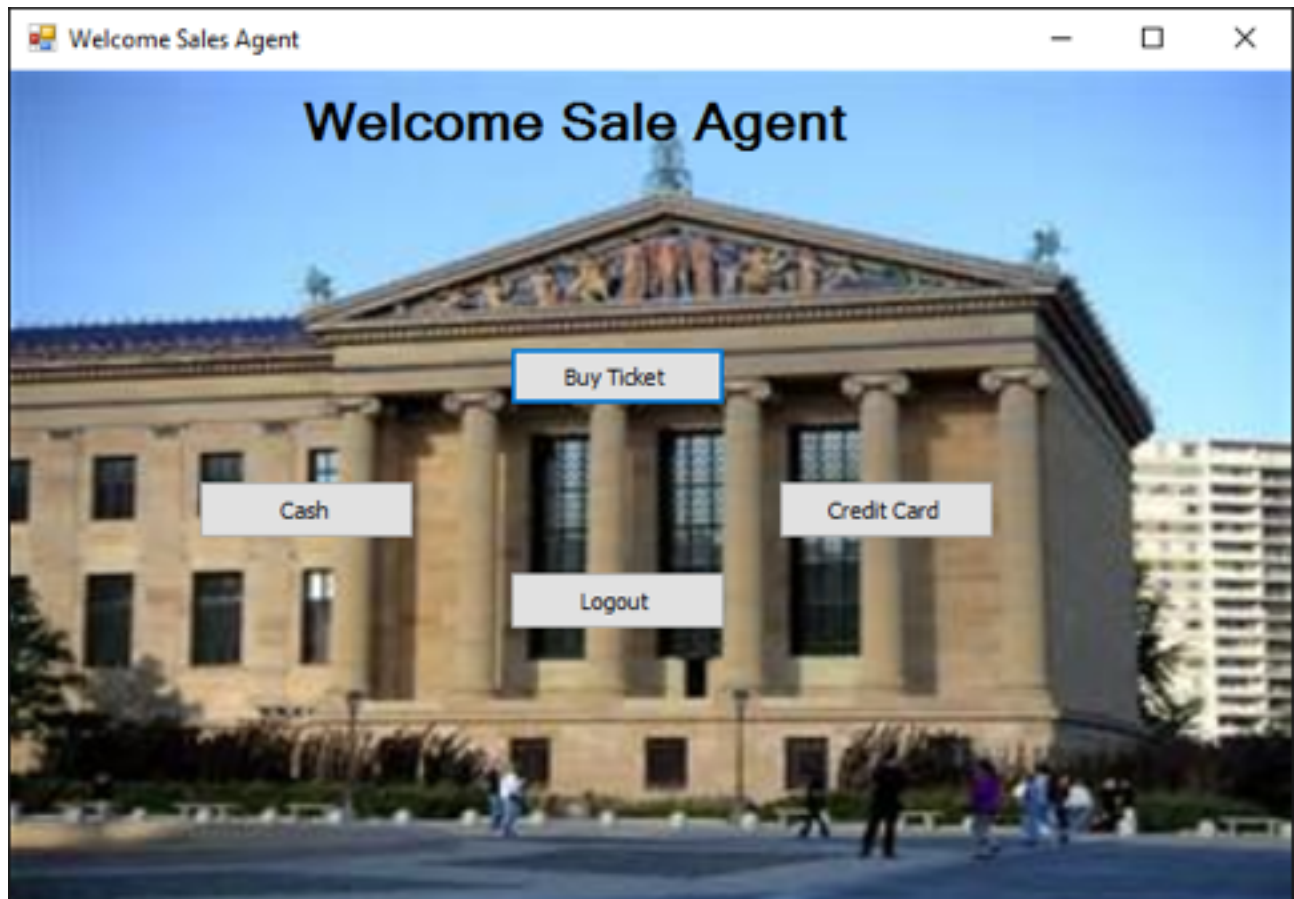
Registrar ID:

Painting ID: Search

Delete



8.3. Sale Agent



The screenshot shows a web application window titled "PaymentQuantity". The window has a red header bar with a "Back" button on the left, the word "Payment" in the center, and a "Logout" button on the right. Below the header is a black bar. The main content area has a light gray background and contains the text "The ticket price is RM5 per person". There are four input fields: "Report ID", "Quantity:", "Date", and "Sale Agent ID". A "Confirm" button is located below the "Sale Agent ID" field. To the right of the "Confirm" button is a "Total" label and an input field. The window has a standard Windows-style title bar with minimize, maximize, and close buttons.

PaymentQuantity

Back Payment Logout

The ticket price is RM5 per person

Report ID

Quantity:

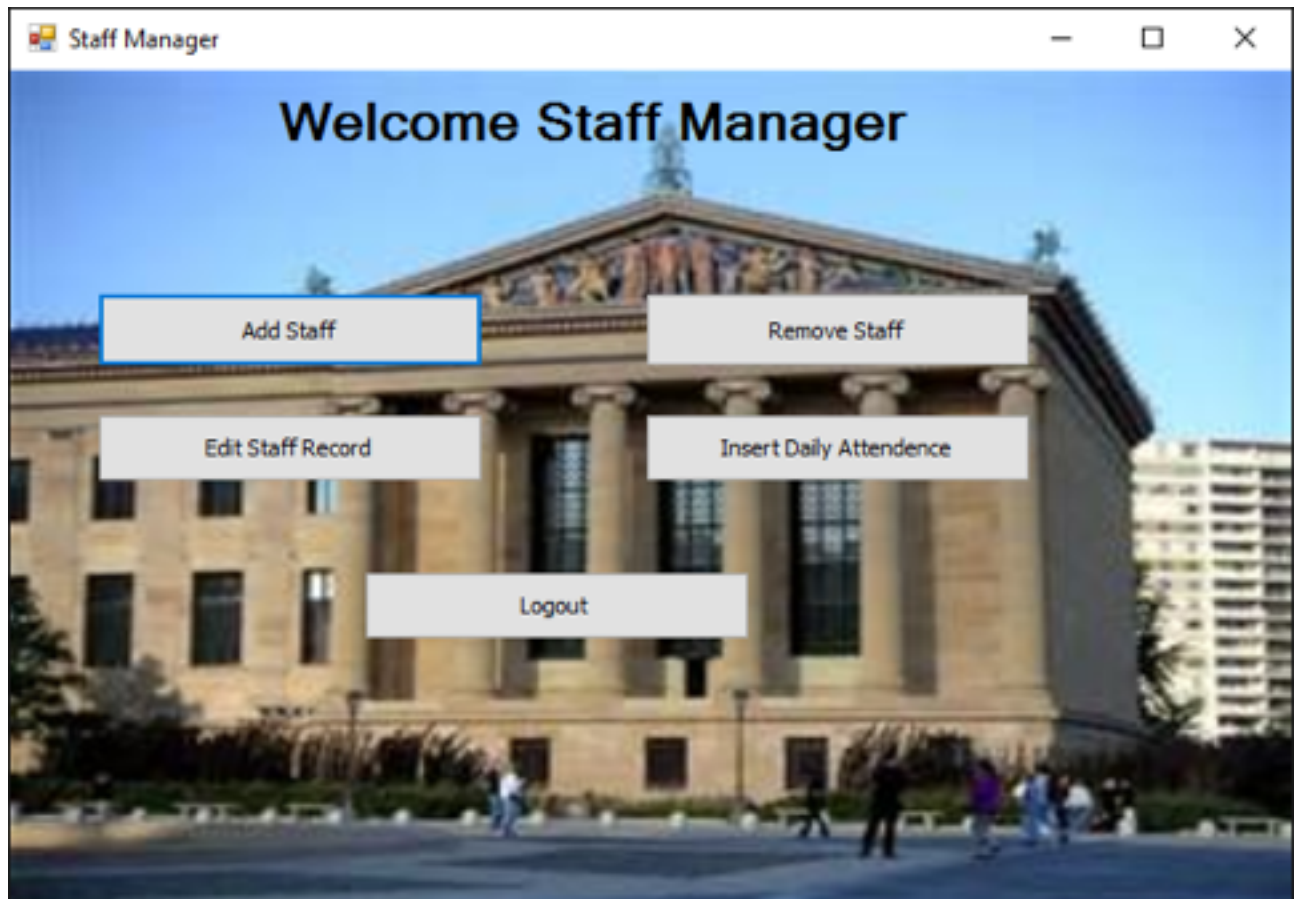
Date

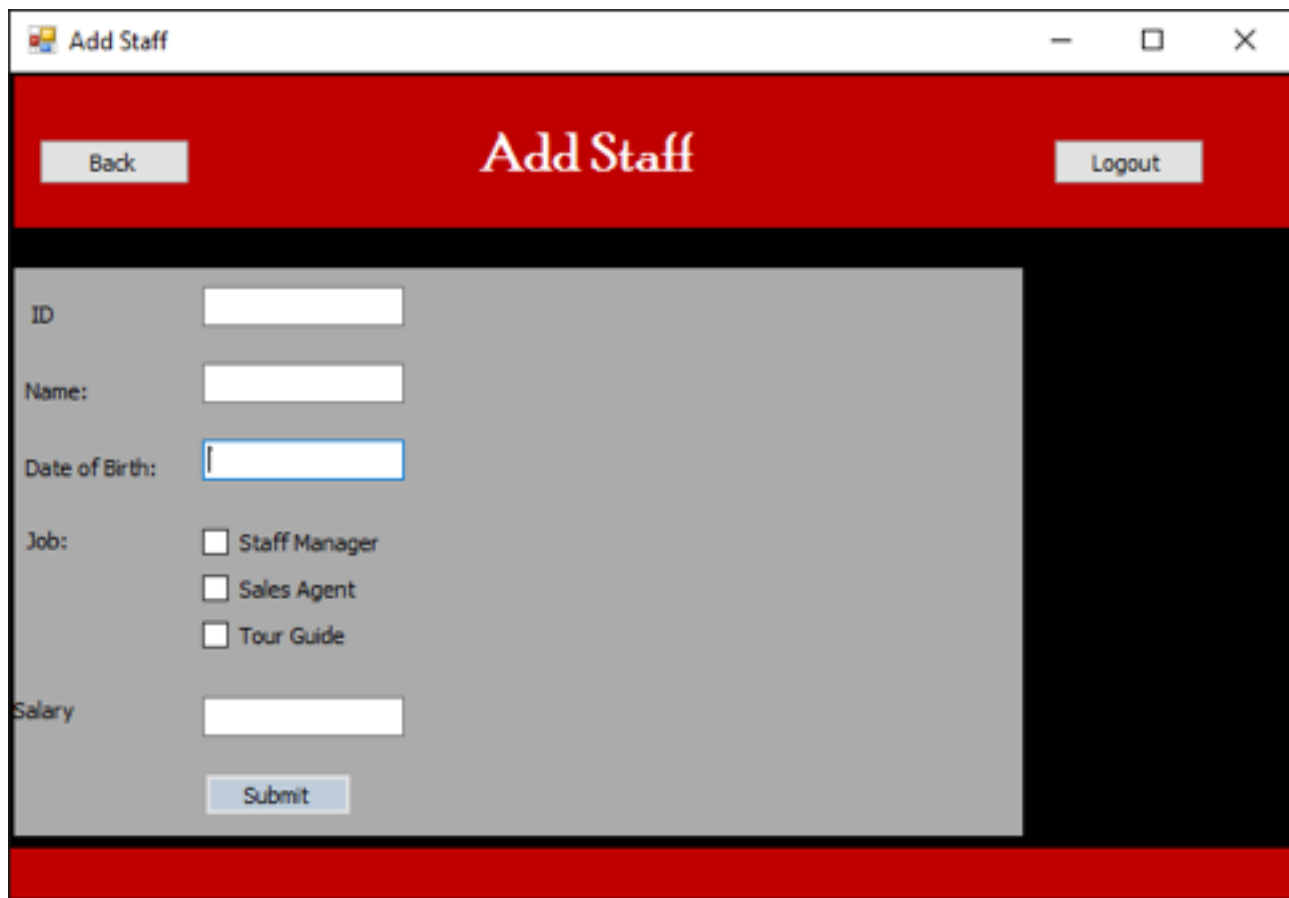
Sale Agent ID

Confirm

Total

8.4. Staff Manager





The screenshot shows a web application window titled "Add Staff". The window has a red header bar with the title "Add Staff" in white. On the left side of the header is a "Back" button, and on the right is a "Logout" button. The main content area has a dark gray background. It contains several input fields and a list of job roles:

- ID:
- Name:
- Date of Birth:
- Job: ☐ Staff Manager
☐ Sales Agent
☐ Tour Guide
- Salary:

At the bottom of the form is a "Submit" button.

The screenshot shows a web application window titled "Edit Staff". The window has a red header bar with the title "Edit Staff" in the center. On the left side of the header is a "Back" button, and on the right side is a "Logout" button. The main content area has a black background. There are two light gray panels. The left panel contains four input fields: "Staff ID", "Name:", "Date of Birth:", and "Salary", each followed by a text input box. Below these fields is a "Submit" button. The right panel contains a "Staff ID:" label followed by a text input box. Below that is a "Job:" label followed by three radio button options: "Staff Manager", "Sales Agent", and "Tour Guide". At the bottom of the right panel is a "Search" button. The window has standard Windows-style window controls (minimize, maximize, close) in the top right corner.

Staff ID:

Name:

Date of Birth:

Salary:

Submit

Staff ID:

Job: ☐ Staff Manager
☐ Sales Agent
☐ Tour Guide

Search

The screenshot shows a web application window titled "Remove Staff". The window has a red header bar with the title "Remove Staff" in white serif font. On the left side of the header is a "Back" button, and on the right is a "Logout" button. The main content area has a black background. On the left, there is a light gray form box with four input fields labeled "ID", "Name:", "Date of Birth:", and "Salary". Below these fields is a "Submit" button. On the right, there is another light gray form box with a "Staff ID:" label and an input field. Below this is a "Job:" label followed by three radio button options: "Staff Manager", "Sales Agent", and "Tour Guide". At the bottom of this box is a "Search" button. A red horizontal bar is at the very bottom of the window.

Remove Staff

Back Logout

Remove Staff

ID

Name:

Date of Birth:

Salary

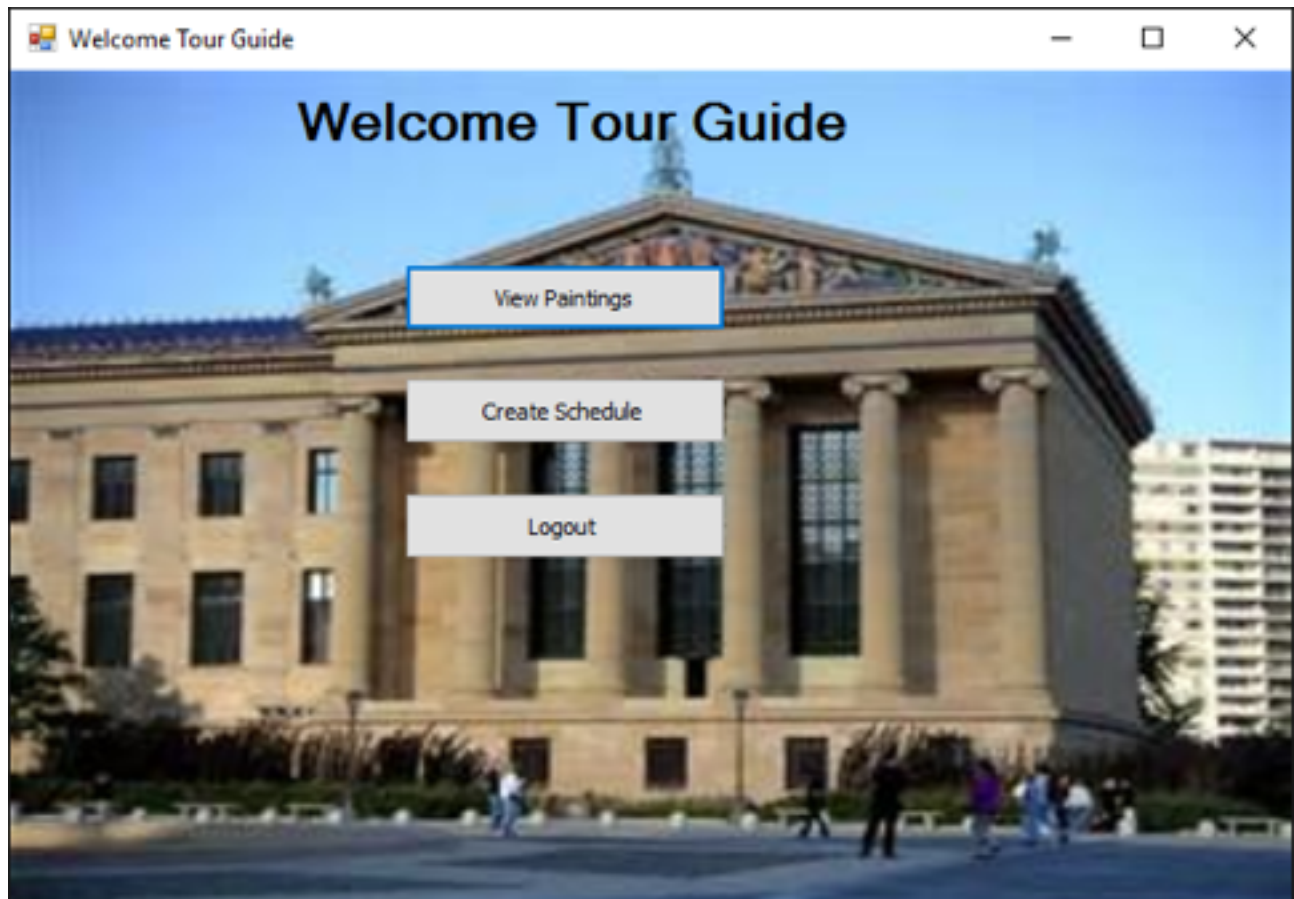
Submit

Staff ID:

Job: ☐ Staff Manager
☐ Sales Agent
☐ Tour Guide

Search

8.5. Tour Guide



The screenshot shows a web browser window titled "ViewPainting". The interface has a red header bar with a "Back" button on the left, the title "View Painting" in the center, and a "Logout" button on the right. The main content area has a black background. On the left, there is a gray box containing a "Painting ID:" label, a text input field, and a "Search" button. On the right, there is a larger gray box containing four labels and text input fields: "Name:", "Creation Date:", "Painter Name:", and "Date of Arrival:". The bottom of the page has a red footer bar.

ViewPainting

Back View Painting Logout

Painting ID:

Search

Name:

Creation Date:

Painter Name:

Date of Arrival:

Back

Create Schedule

Logout

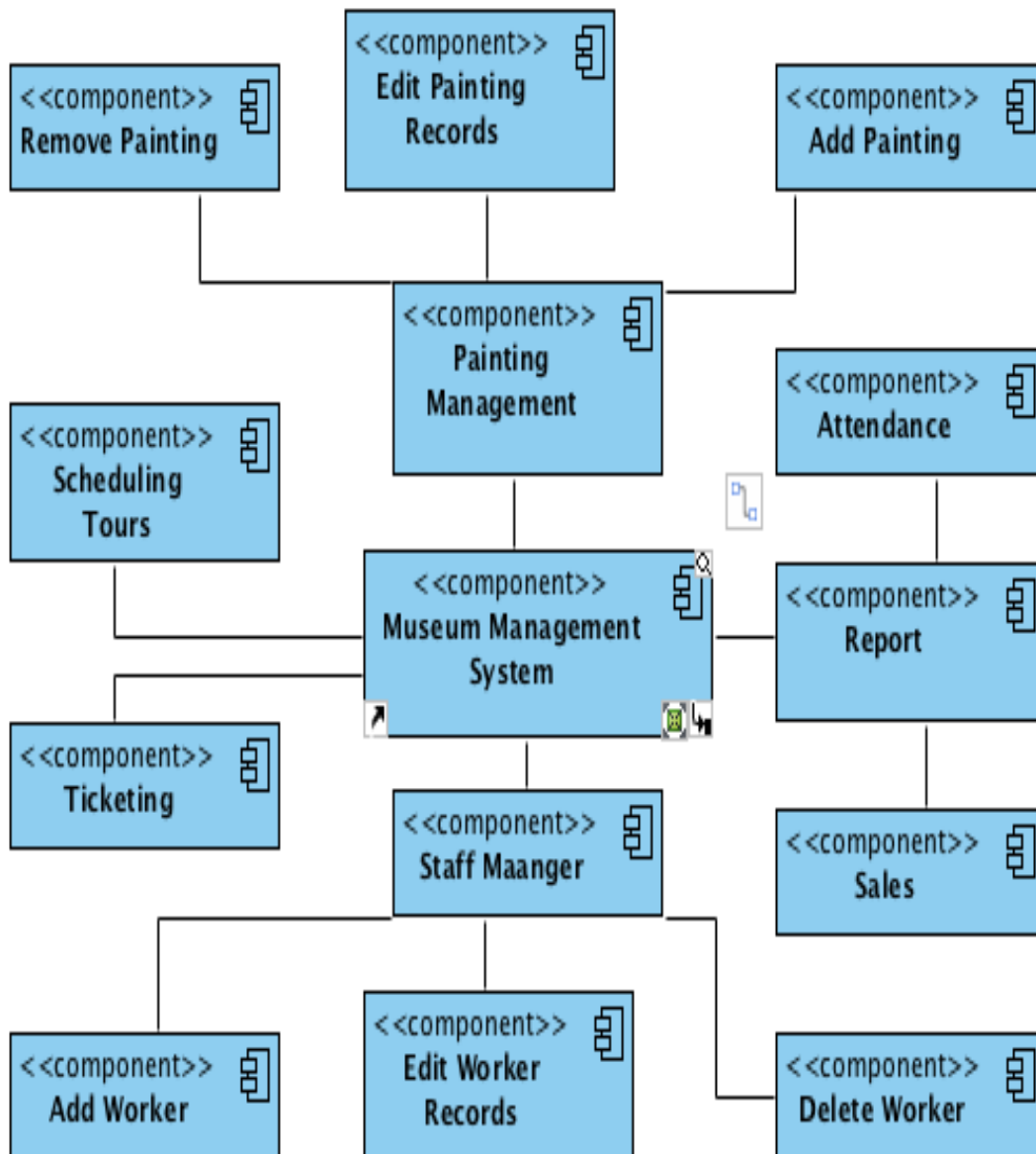
	ScheduleID	TourGuideID	Date	PaintingID
➤				

Submit

9. Component Design

9.1. Main Components

The main components are the painting management system, report, staff manager(Staff management system), ticketing , and scheduling tours.



9.1.1. Component 1

The painting management system is responsible for manipulating painting's information.
Pseudocode:

```
void addPainting(){
    enter the painting ID
    if the painting ID doesn't exist
        enter painting details
        add the painting details to the database
        print "Painting has been successfully added"

    else
        print "The painting already exists. Please try again"
}

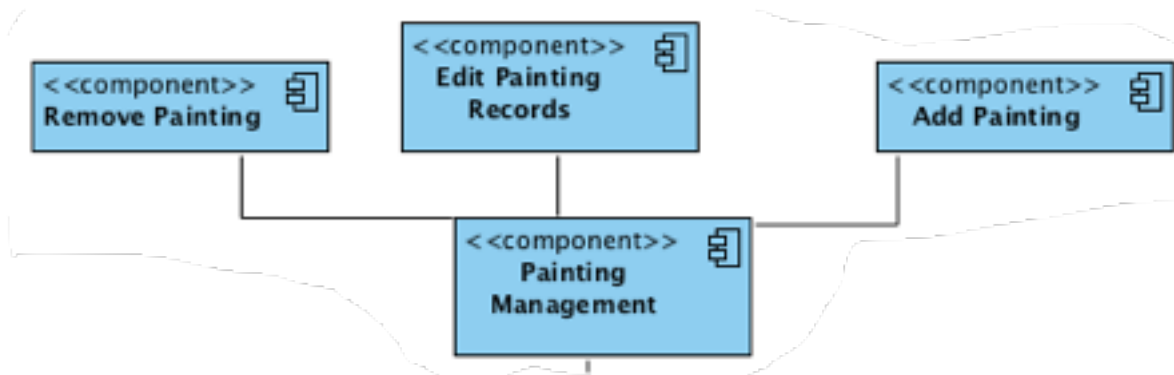
void editPainting(){

    enter painting ID
    if the painting ID exists
        enter painting details
        print "Painting has been successfully edited"

    else
        print "The painting doesn't exist. Please try again"
}

void removePainting(){
    enter painting ID
    if the painting ID exists
        remove painting from the database
        print "Painting has been successfully removed"

    else
        print "The painting doesn't exist. Please try again"
}
```



9.1.2. Component 2

The staff management system is responsible for manipulating staff's information.
Pseudocode:

```

void addStaff(){
    enter employee ID
    if the employee ID doesn't exist
        enter employee details
        add the employee details to the database
        print "Employee has been successfully added"

    else
        print "The employee already exists. Please try again"
}

void editStaff(){
    enter employee ID
    if the employee ID exists
        enter employee details
        print "Employee has been successfully edited"

    else
        print "The employee name doesn't exist. Please try again"
}

void removeStaff(){
    enter employee ID
  
```

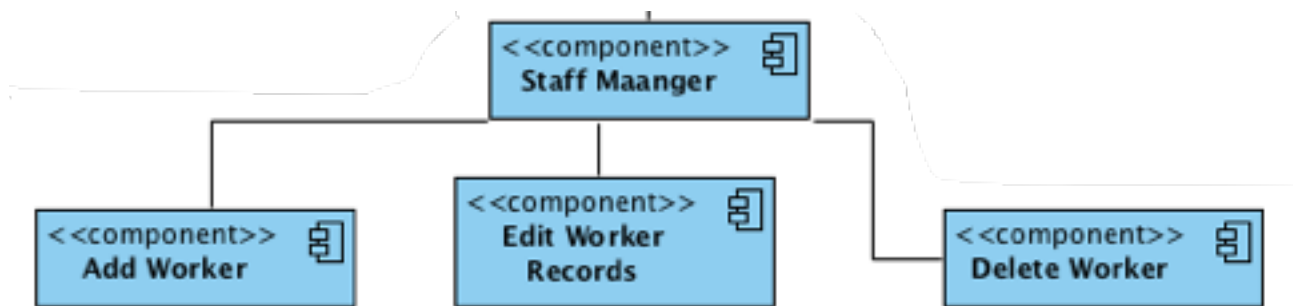
```

    if the employee ID exists
        remove employee from the database
        print "Employee has been successfully removed"

    else
        print "The employee doesn't exist. Please try again"

}

```



9.1.3. Component 3

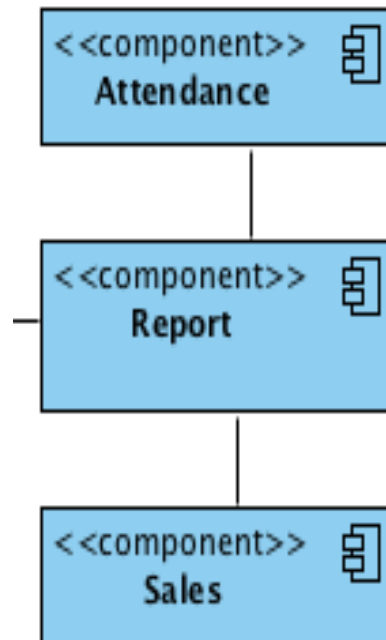
The report management system is responsible for managing attendance and sales report.
Pseudocode:

```

void showSalesReport(){
    show ticketID
    show SalesAgentID
}

void showAttendanceReport(){
    show name
    show month
    show ID
    show Percentage
}

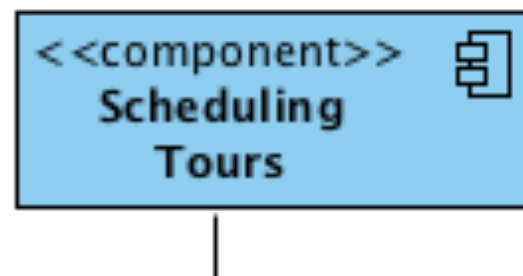
```



9.1.4. Component 4

This component is for creating scheduling tours.
Pseudocode:

```
void createSchedule(){  
    enter ScheduleID  
    enter TourGuideID  
    enter date  
    enter PaintingID  
}
```



9.1.5. Component 5

This component is for selling tickets to the public.

Pseudocode:

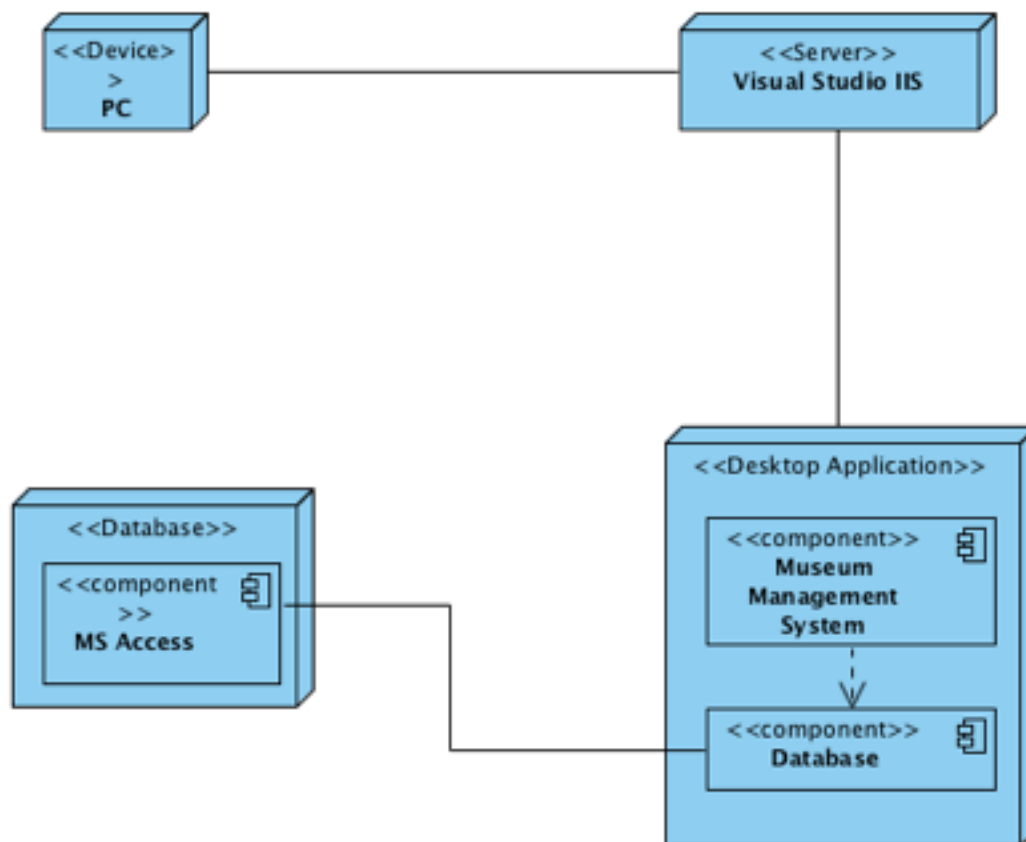
```
void buyTicket(){  
    enter number of tickets  
    enter cash or credit card  
    if cash  
        wait for sales agent to confirm payment  
    else  
        if credit card payment is successful  
            print "Payment is successful"  
        else  
            print "Payment is unsuccessful. Please try again."  
}
```



10. Deployment Design

10.1. Deployment Diagram

The application will be deployed on a PC which will be used on the Visual Studio IIS server. The server will hold the management system, which will use the Microsoft Access database as its source of data.



11. Test Data

11.1. Test Data Set 1

Registrar table specifies that there can be only one Registrar in the table holding the id '222', as there can be only one registrar responsible for the care of the paintings.

RegistrarID	RName	Date of Birth	Salary
222	Ahmad	10/10/1990	20

11.2. Test Data Set 2

Staff Manager table specifies that the painting id must be between the ranges of 333333330-333333339. Also all attributes must exist in order to add a record.

SMID	Date of Birth	Salary	STName
333333330	02/02/1992	90000	Jack
333333331	10/10/1982	10000	Khaled
333333332	02/02/1980	20123	Ali
333333333	15/04/1988	15000	Abu
333333334	05/09/1970	35000	Edward
333333335	26/11/1976	25000	Frank

11.3. Test Data Set 3

Sale Agent table specifies that the painting id must be between the ranges of 444444440-444444449. Also all attributes must exist in order to add a record.

SalesID	SName	DateofBirth	Salary
444444440	ahmad	10/10/2010	3000
444444441	Ali	08/07/1993	2000
444444442	Mahmoud	02/02/1992	900
444444443	John	04/03/1990	2100
444444444	Sarah	07/11/1993	3400
444444445	Lisa	03/12/1990	1500
444444446	Julia	05/29/1991	3890

11.4. Test Data Set 4

Tour Guide specifies that the painting id must be between the ranges of 555555550-555555559. Also all attributes must exist in order to add a record.

TGID	TGName	DateofBirth	Salary
555555550	Jennifer	05/05/1994	1000
555555551	Selena	27/02/1995	900
555555552	Lopez	10/03/1993	800
555555553	Christina	21/12/1992	780
555555554	Amanda	24/10/1989	1200
555555555	Angelina	03/07/1991	850

11.5. Test Data Set 5

Ticket table specifies that the painting id must be between the ranges of 666666660-666666669. Also all attributes must exist in order to add a record.

TicketID ▾	Ticket Price ▾	SDate ▾	SalesID ▾
666666660	20	20/20/2016	444444441
666666661	40	21/20/2016	444444440
666666662	35	21/20/2016	444444444
666666663	10	22/10/2016	444444442
666666664	5	23/10/2016	444444443

11.6. Test Data Set 6

Sales Report table specifies that the painting id must be between the ranges of 222222220-222222229. Also all attributes must exist in order to add a record.

SAReporID ▾	SADate ▾	Quantity ▾	Price ▾	SalesID ▾
222222220	02/02/2012	10	50	444444440
222222221	12/02/2012	10	50	444444440
222222222	05/04/2011	10	50	444444440
222222223	10/02/2012	7	35	444444440
222222224	10/02/2011	5	25	444444440
222222225	10/04/2011	10	50	444444440
222222226	08/02/2011	3	15	444444440
222222227	10/05/2011	4	20	444444440
222222228	06/06/2016	4	20	444444444

11.7. Test Data Set 7

Painting table specifies that the painting id must be between the ranges of 11111110-11111119. Also all attributes must exist in order to add a record.

PaintingID ▾	PName ▾	CreationDate ▾	PainterName ▾	DateofArrival ▾	RegistrarID ▾
11111110	The Scream	02/03/1992	Edvard Munch	04/05/1931	222
11111111	Monalisa	15/10/1902	Leonardo DaVinci	30/01/1920	222
11111112	The Last Supper	04/11/1900	Malek	02/03/1915	222
11111113	Starry Night	01/01/1904	Van Gogh	01/01/1907	222
11111114	The Kiss	27/06/1931	Gustav Klimt	04/07/1932	222

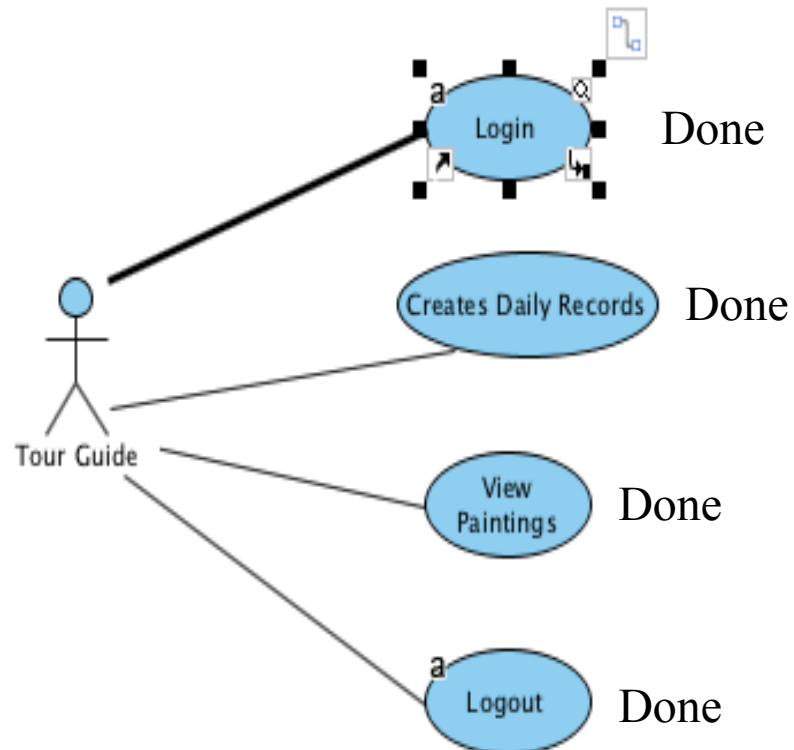
11.8. Test Data Set 8

Attendance Report Table

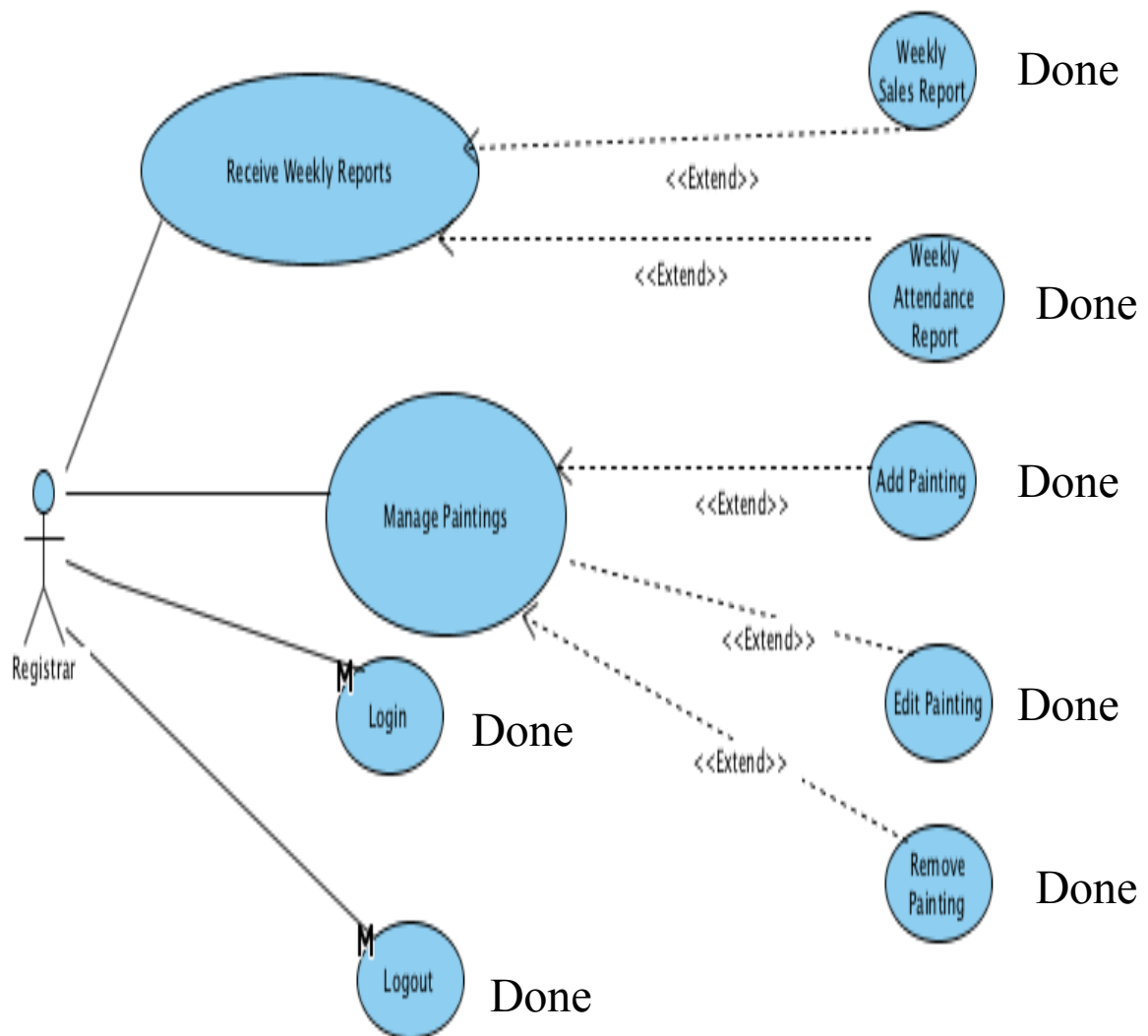
ATReportID ▾	ATDate ▾	SMID ▾	RegistrarID ▾	ATName ▾	TGID ▾	SalesID ▾	Attended_ ▾
8881	07/04/2016	33333331	222	James			
8888	06/04/2016	33333330		Khaled			Y

12. Acceptance Test

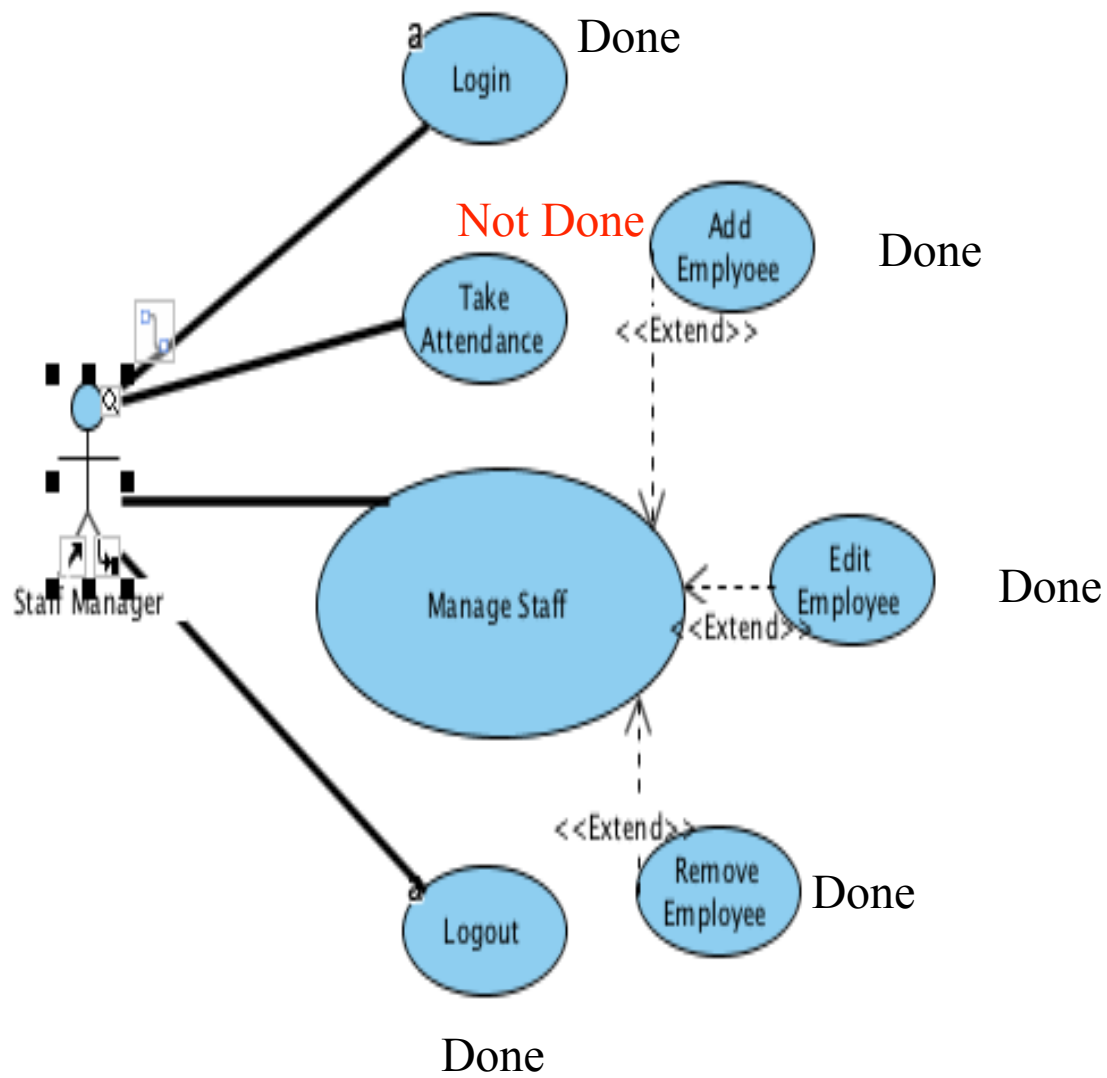
12.1.Acceptance Test 1



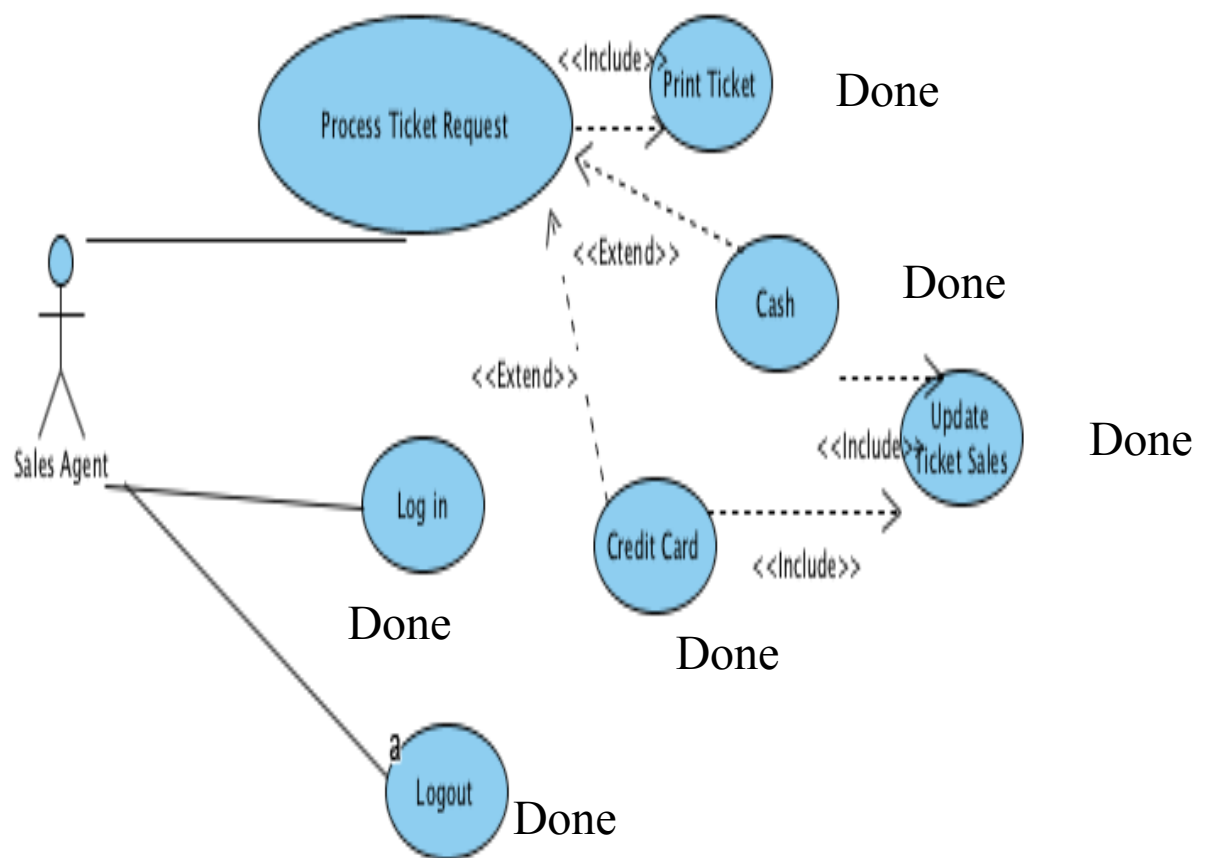
12.2.Acceptance Test 2



12.3.Acceptance Test 3

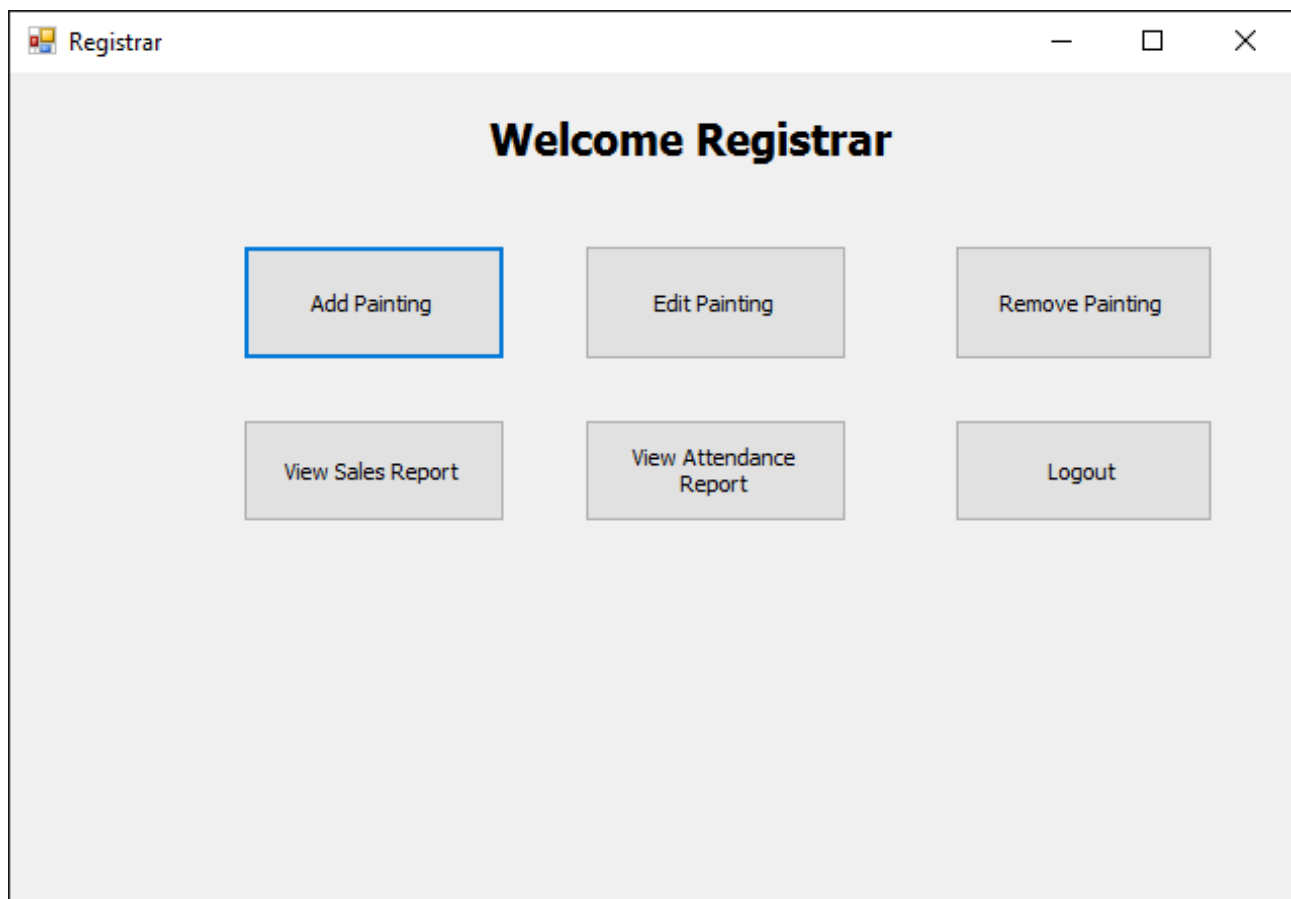


12.4.Acceptance Test 4



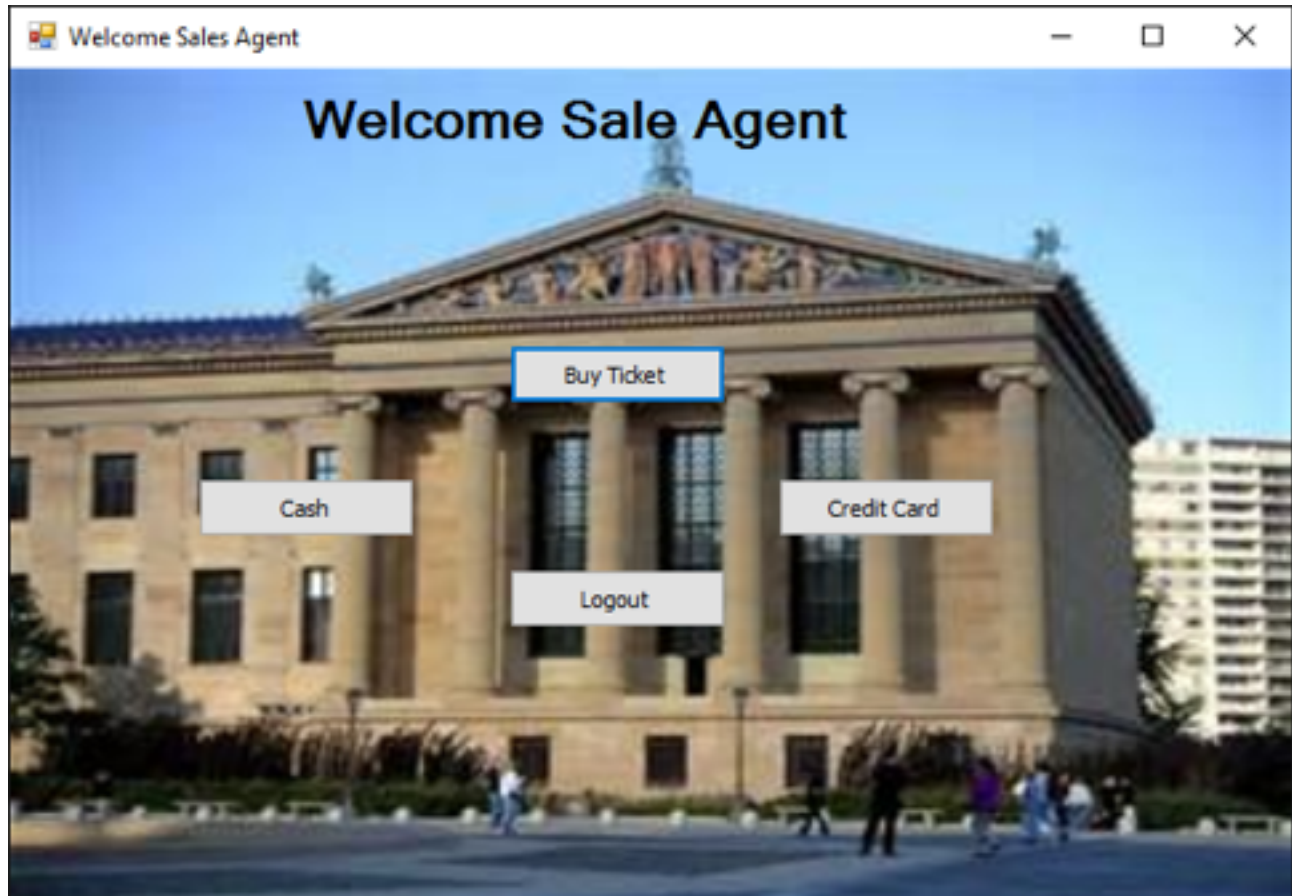
13. Sample Screens

13.1.Registrar



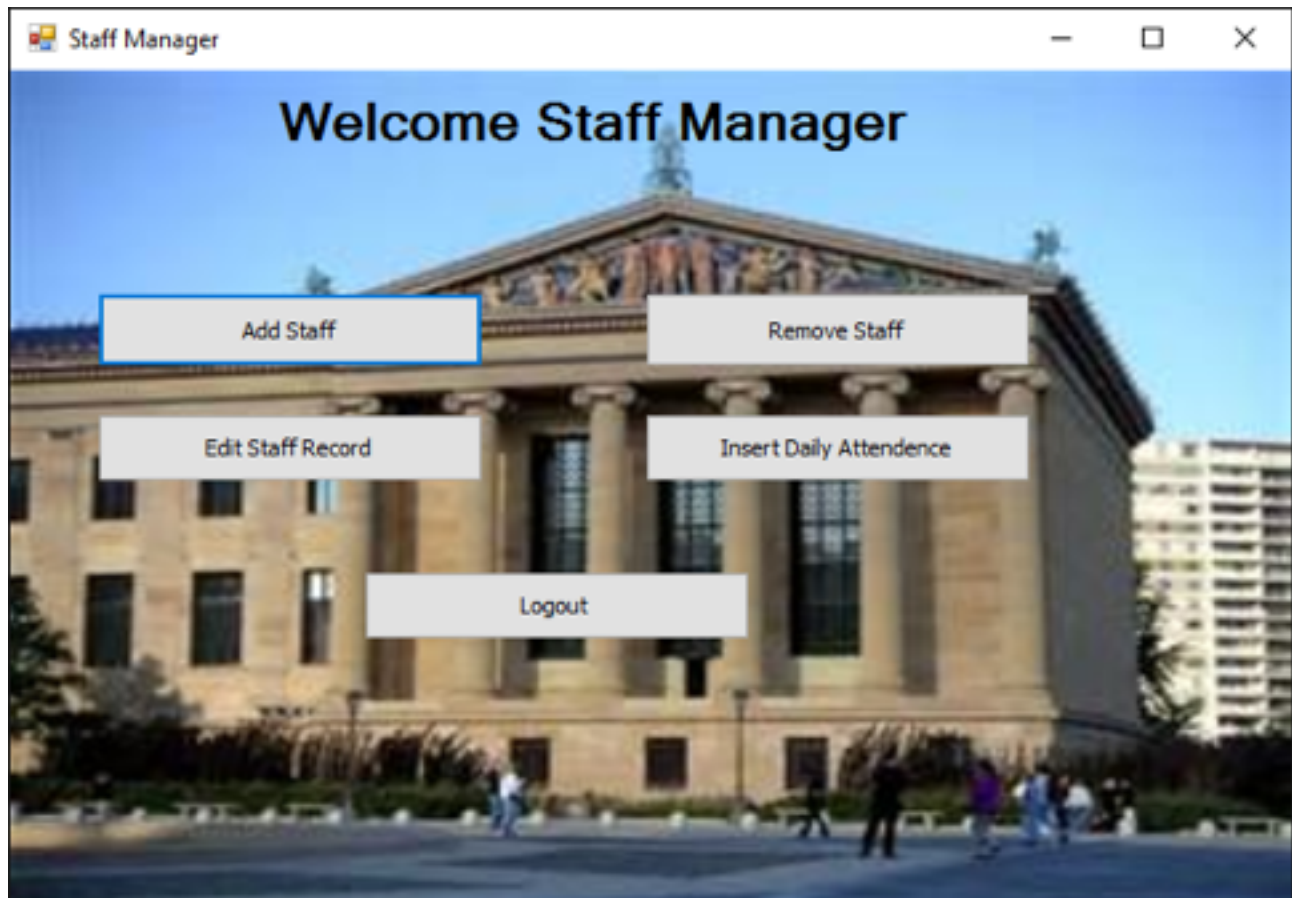
When the registrar signs in, the above window appears, which allows him to manage paintings that are in the database, or add new ones. Also he can view the sales report, or the attendance report.

13.2.Sales Agent



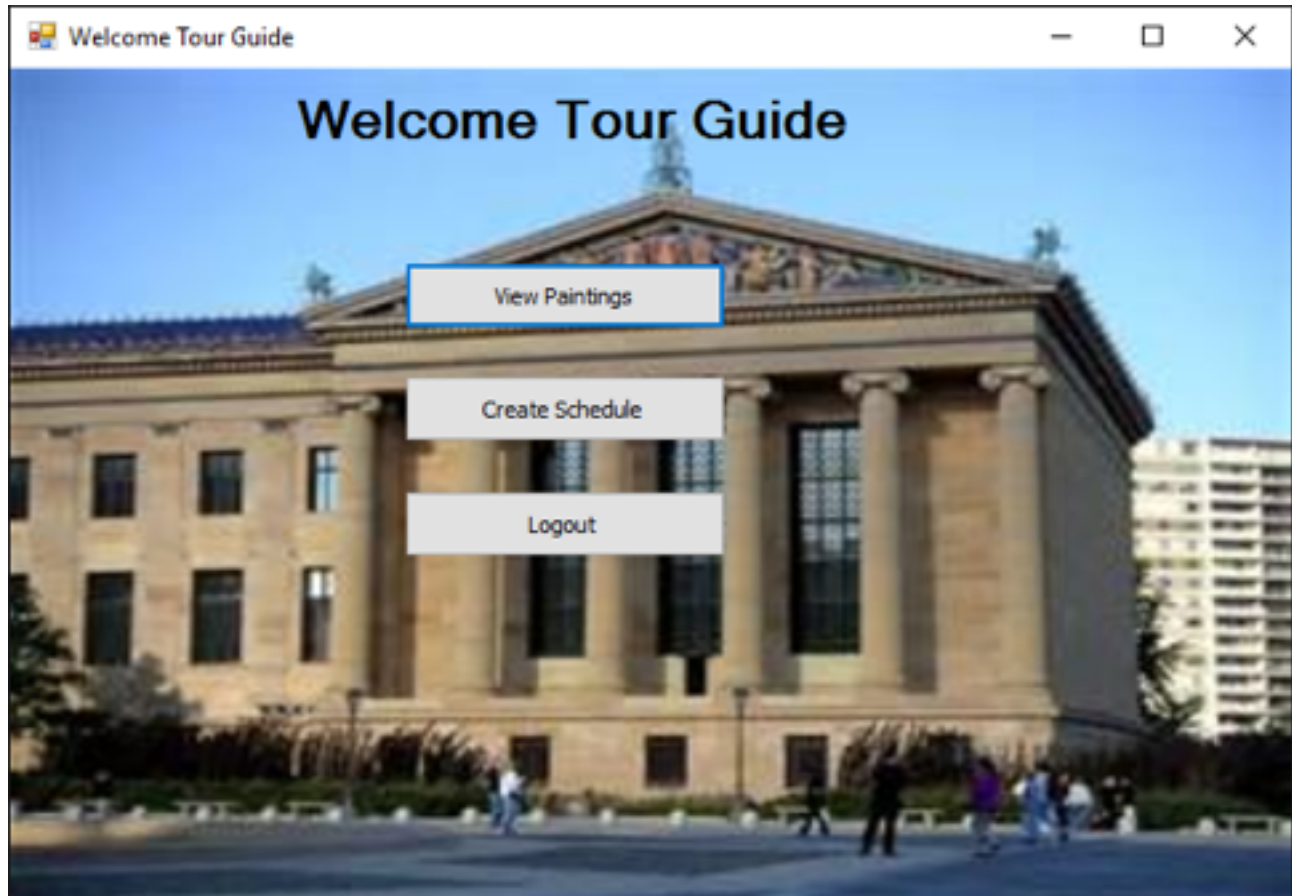
When the sales agent signs in, the window shown above appears, which allows him to process the ticket payments, either in cash or credit card.

13.3.Staff Manager



When the staff manager signs in, the window shown above appears, which allows him to manage the staff in the system, and manage their attendance.

13.4.Tour Guide



When the tour guide signs in, the window shown above appears. This window enables the tour guide to access paintings, and create schedules.

14. Conclusion

14.1. Summary of Results

In conclusion the Museum Management System is a software that allows the users to manipulate data of paintings in the museum, and the staff that work in it. The system can be used by the Registrar, who is responsible for managing the Paintings in the museum and viewing reports. Next is the staff manager, who is responsible for managing the staff who are working in the museum. Next is the sales agent, who is responsible for selling tickets, and preparing the sales report. Finally is the tour guide, who is responsible for viewing painting information, and creating schedules. All in all, the system did almost everything that was stated in the requirements except a few ones.

14.2. Problems Encountered

Of the problems we have faced, dealing with information within tables was the hardest. We had issues with reading information from a table into the museum's database. Other problems were problems regarding constraints with our information, where some of our information was sensitive that it had to be put within limits for the user to adhere to.

14.3. Limitations and Future Enhancements

The software has performed almost all of the requirements presented. However, it was unable to transfer data from the tables in the system to the museum's database. That will be worked on and improved in the future. Also the system didn't have high portability. This will be enhanced in the future to allow its use on multiple platforms.

15.

User Guide

<This section is **Optional**. Write a user guide on how to use the system and place it here.>