Student Auditorium Management System

PRODUCT PERSPECTIVE

The SAMS is designed to replace the manually driven school's auditorium management system and introduce automation and efficiency.

The SAMS will enable the SM to manage and enlist the social and cultural events conducted in auditorium and their details, Fix the prices of the ordinary and balcony seat for booking and assign seats to functionaries, VIPs as complementary gift.

The spectators can book their ticket from authorized SP and get their tickets printed with details. The SP can login in to SAMS and all their transactions are recorded. The spectators and SM can query details regarding show timing, booking and payment status respectively.

MAJOR FUNCTIONS

The Students' Auditorium Management Software (SAMS) consists of the following major functions:

1. Release and maintaining the information of various shows conducted in the auditorium.

2. Price fixing and Allocating Balcony and Ordinary seats for sale or offer as complementary gifts to functionaries or VIPs.

3. Booking of tickets by spectators from authorized sale manager.

4. Printing of tickets with show details and ticket number.

MAJOR FUNCTIONS

The Students' Auditorium Management Software (SAMS) consists of the following major functions:

5. Cancellation of Tickets and Refund.

6. Querying the different class of available seats by spectator.

7. Create Log-in accounts for authorized sale persons.

8. Recording all the transaction of sales person using person ID.

9. Querying the percentage of seats booked, amount collected on each class for any show, amount collected by each sales person by show manager.

USER CHARACTERISTICS

❖ **SHOW MANAGER**

The Auditorium has a SM with responsibility of management of every show conducted in the auditorium, fix the prices of each class of ticket and assign tickets to functionaries and VIPs. He also monitors the SP.
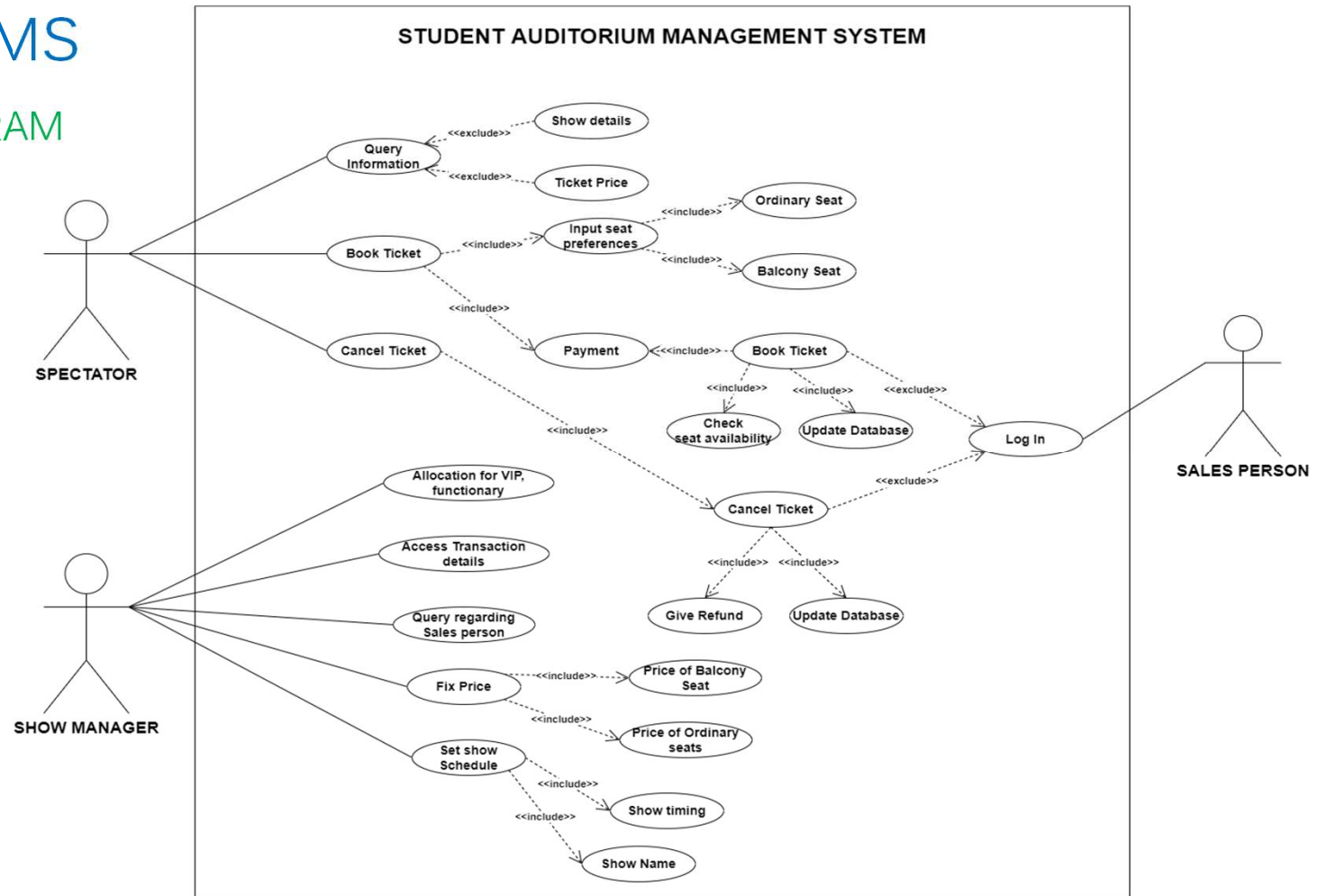
❖ **SALES PERSON**

SPs are responsible for booking and cancellation of tickets on the request of spectator.

❖ **SPECTATOR**

Spectator query information about show details and seat availability. He books tickets through authorized sales persons and can cancel it with adequate refund.
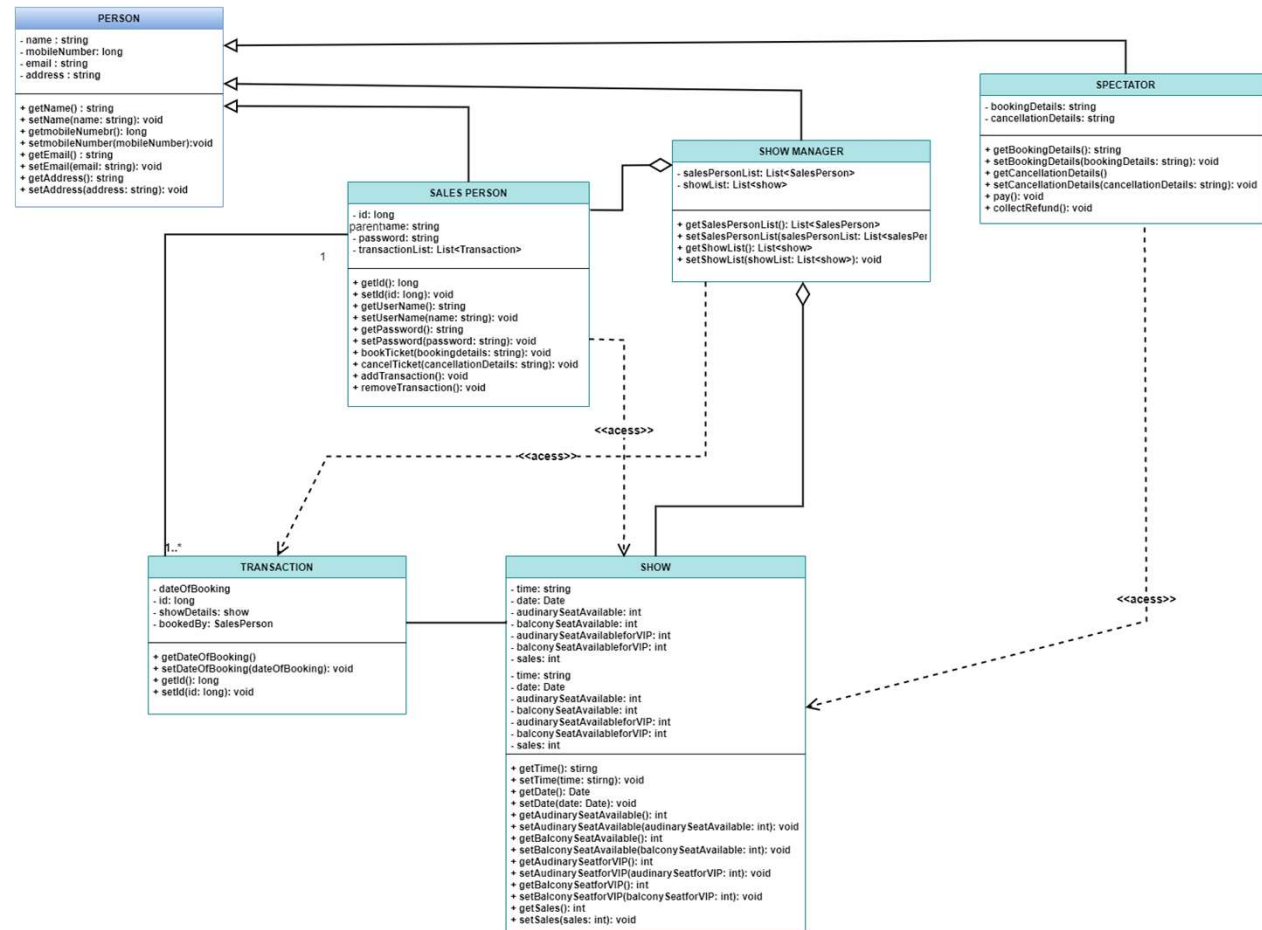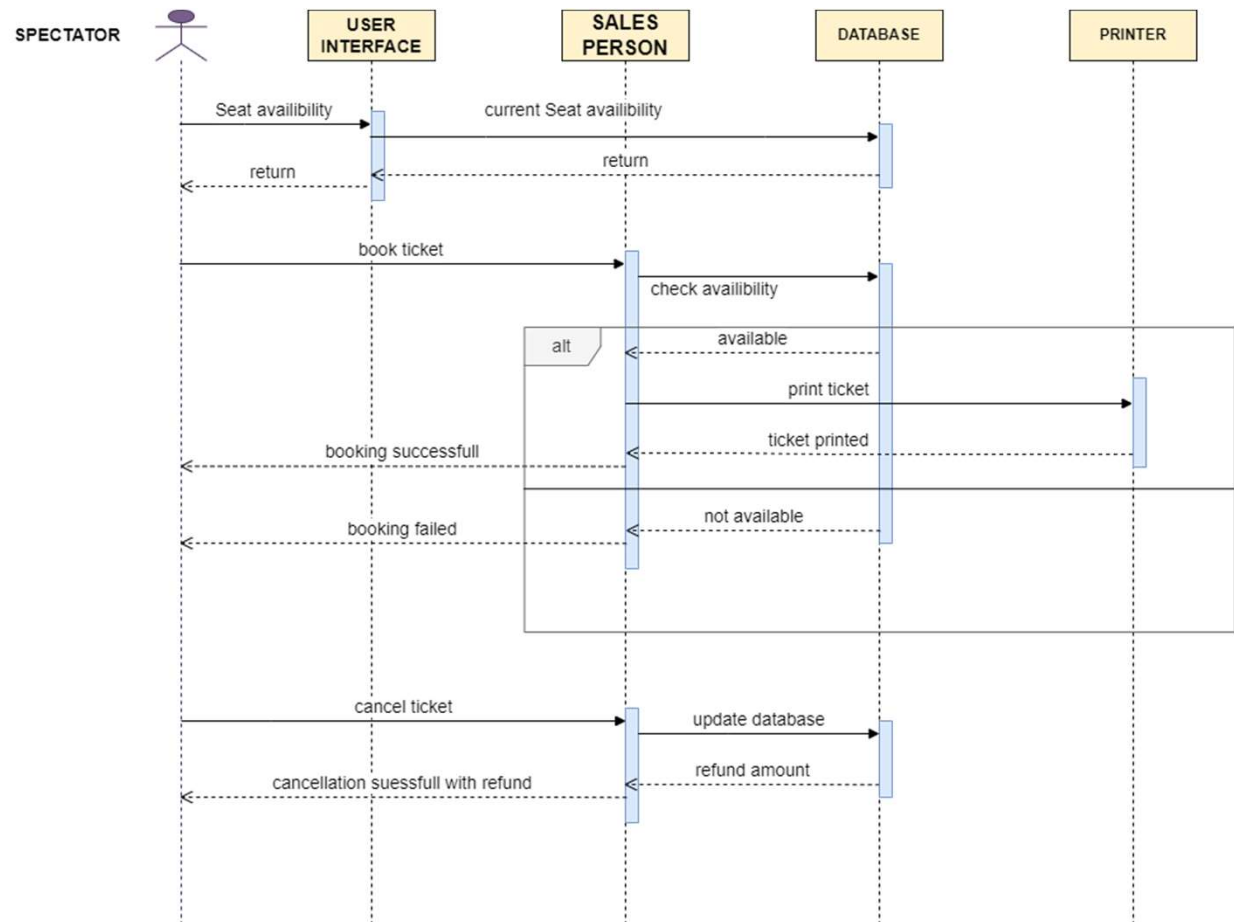
UML DIAGRAMS

❖ USE CASE DIAGRAM
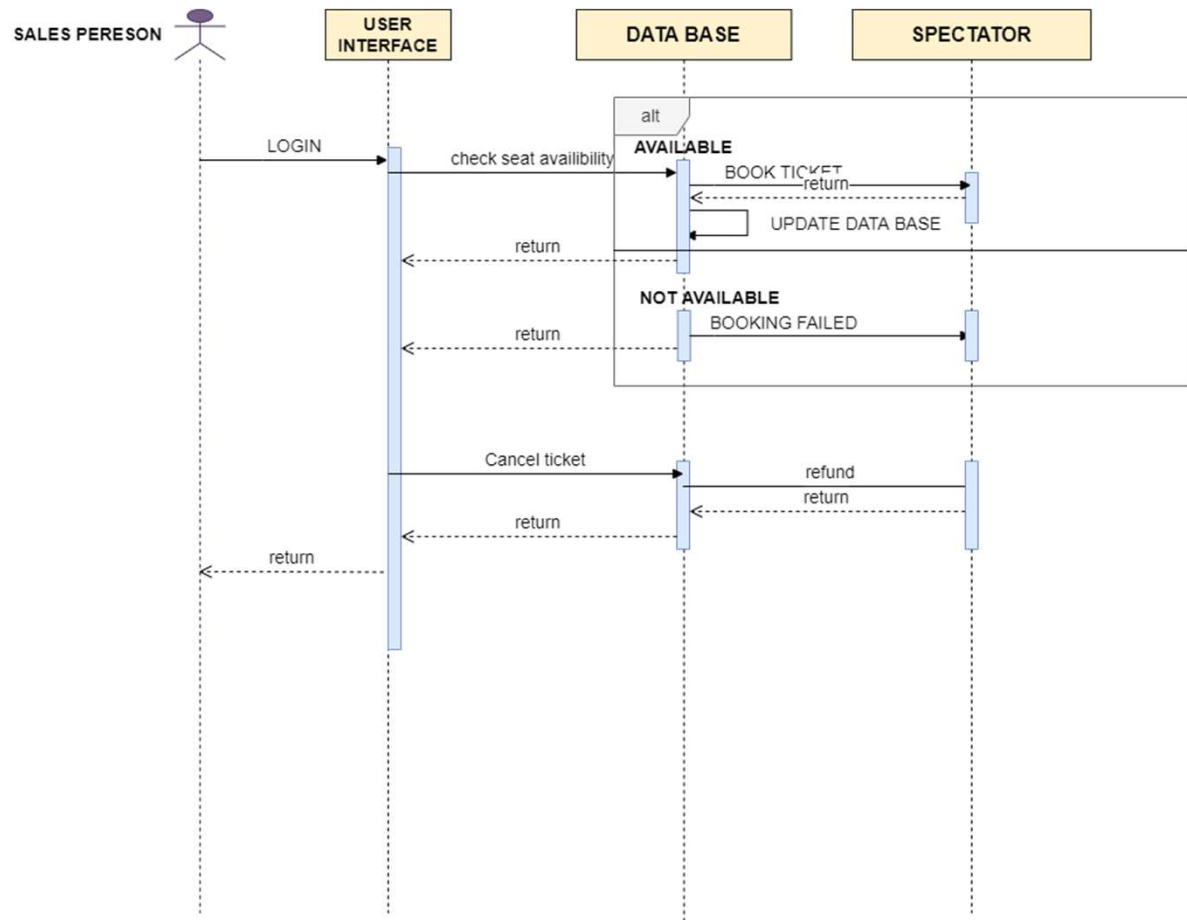
UML DIAGRAMS

❖ CLASS DIAGRAM

PERSON

- name : string
- mobileNumber: long
- email : string
- address : string

+ getName() : string
+ setName(name: string): void
+ getmobileNumebr(): long
+ setmobileNumber(mobileNumber):void
+ getEmail() : string
+ setEmail(email: string): void
+ getAddress(): string
+ setAddress(address: string): void

SPECTATOR

- bookingDetails: string
- cancellationDetails: string

+ getBookingDetails(): string
+ setBookingDetails(bookingDetails: string): void
+ getCancellationDetails()
+ setCancellationDetails(cancellationDetails: string): void
+ pay(): void
+ collectRefund(): void

SHOW MANAGER

- salesPersonList: List<SalesPerson>
- showList: List<show>

+ getSalesPersonList(): List<SalesPerson>
+ setSalesPersonList(salesPersonList: List<salesPer
+ getShowList(): List<show>
+ setShowList(showList: List<show>): void

SALES PERSON

- id: long
parentname: string
- password: string
- transactionList: List<Transaction>

+ getId(): long
+ setId(id: long): void
+ getUserName(): string
+ setUserName(name: string): void
+ getPassword(): string
+ setPassword(password: string): void
+ bookTicket(bookingdetails: string): void
+ cancelTicket(cancellationDetails: string): void
+ addTransaction(): void
+ removeTransaction(): void

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1..*

TRANSACTION

- dateOfBooking
- id: long
- showDetails: show
- bookedBy: SalesPerson

+ getDateOfBooking()
+ setDateOfBooking(dateOfBooking): void
+ getId(): long
+ setId(id: long): void

SHOW

- time: string
- date: Date
- audinarySeatAvailable: int
- balconySeatAvailable: int
- audinarySeatAvailableforVIP: int
- balconySeatAvailableforVIP: int
- sales: int

- time: string
- date: Date
- audinarySeatAvailable: int
- balconySeatAvailable: int
- audinarySeatAvailableforVIP: int
- balconySeatAvailableforVIP: int
- sales: int

+ getTime(): stirng
+ setTime(time: string): void
+ getDate(): Date
+ setDate(date: Date): void
+ getAudinarySeatAvailable(): int
+ setAudinarySeatAvailable(audinarySeatAvailable: int): void
+ getBalconySeatAvailable(): int
+ setBalconySeatAvailable(balconySeatAvailable: int): void
+ getAudinarySeatforVIP(): int
+ setAudinarySeatforVIP(audinarySeatforVIP: int): void
+ getBalconySeatforVIP(): int
+ setBalconySeatforVIP(balconySeatforVIP: int): void
+ getSales(): int
+ setSales(sales: int): void

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UML DIAGRAMS

❖ SEQUENCE DIAGRAM

UML DIAGRAMS

❖ SEQUENCE DIAGRAM

UML DIAGRAMS

❖ SEQUENCE DIAGRAM

SHOW MANAGER

DATABASE

update show details

return

get sales personslist

return

fixprice

return

SAMPLE OUTPUT

❖ HOME SCREEN

The home page of the SAMS prompts the user To log in into the system as per their role i.e. Spectator, Sales Person or Show Manager

```
*************************************************************
                STUDENT AUDITORIUM MANAGEMENT SYSTEM
*************************************************************


------------------------------HOME PAGE---------------------

Input As:
1. Show Manager
2. Sales Person
3. Spectator
4. Exit

Enter your role (1/ 2/ 3/ 4): 
```

SAMPLE OUTPUT

❖ SHOW MANAGER

Show manager Enter the Details of the sales persons And Adds the show details.

```
-------------------SHOW MANAGER PORTAL----------------------------

1. Get Sales Person List
2. Add new Sales Person
3. Fire Sales Person
4. Get Show List
5. Add new Show
6. All transactions Till Now
7. Log Out

Enter your choice : 2

Enter name of Sales Person            : Yogesh

Enter email of Sales Person           : yogesh.saini4002@gmail.com

Enter Mobile Number of Sales Person   : 8852983794

Enter address of Sales Person         : Siker,Rajasthan-332713

 SUCCESSFULLY ADDED
-------------------SHOW MANAGER PORTAL----------------------------

1. Get Sales Person List
2. Add new Sales Person
3. Fire Sales Person
4. Get Show List
5. Add new Show
6. All transactions Till Now
7. Log Out

Enter your choice : 5

Enter Title of The Show                   : Smile-2

Enter Number of Gernal Audinary Seats     : 50

Enter Number of Gernal balcony Seats      : 50

Enter Number of VIP Audinary Seats        : 25

Enter Number of VIP Balcony Seats         : 25

Enter Price for Audinary Seat for the show   : 250

Enter Price for Balcony Seat for the show    : 250

 SUCCESSFULLY ADDED
```

SAMPLE OUTPUT

❖ SPECTATOR

Spectator Booking tickets, Providing his/ her Preferences and Query the Booking details.

```
1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out

Enter Your Choice : 3

Choose Show from the list : 1
1. Audinary
2. Balcony
Choose seat type : 2

Booking.........
-------------------------------------------------------
|           Congrats!!!! Booking Confirmed.           |
-------------------------------------------------------

Your Ticket
Id                      : 1001
Show Name               : Smile-2
Booked by Sales Person  : Yogesh
price Paid              : 250

1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out

Enter Your Choice : 1

Id                      : 1001
Show Name               : Smile-2
Booked by Sales Person  : Yogesh
price Paid              : 250

1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out

Enter Your Choice : █
```

SAMPLE OUTPUT

❖ SPECTATOR

Ticket Cancellation.

```
----------------------SPECTATOR PORTAL-------------------------------

Enter Username : Sahil

Enter Password : DreamJob@123

logging in ...

1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out

Enter Your Choice : 4

 Cancelling ......
Cancelled
we will initiate the refund process within 24 hrs acoording to our refund policy.
1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out
```

SAMPLE
OUTPUT

❖ SPECTATOR

Ticket Cancellation &
Query the Show information.

```
----------------------SPECTATOR PORTAL--------------------------------

Enter Username : Yogesh

Enter Password : DreamJob@12345

logging in ...

1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out

Enter Your Choice : 1

----------------------------------------------------------
|                   You have No booking !!!               |
----------------------------------------------------------

1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out

Enter Your Choice : 2


Show Number               : 1
Title                     : Smile-2
Audinary Seats Available  : 50
Balcony Seats Available   : 49
Price Audinary Seat       : 250
Price Balcony Seat        : 250

1. Show My bookings
2. check shows
3. book show
4. cancell ticket
5. Log out

Enter Your Choice : 4

----------------------------------------------------------
|                   You have No booking !!!               |
----------------------------------------------------------
```

Thank You!