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INTRODUCTION

The era of modernization is viewed in all the sectors. Gone are the days when every detail was manually recorded. In the modern times, man is equipped with technologies that are ahead of its time and hassle free. With the entry and increasing influence of the science in the traditional record maintaining, the tourism industry of the globe is celebrating a revolution in each moment. The new technologies have helped in utilizing every resource and turning it into a valuable asset overtime.

This system software is designed to meet the needs of a cruise ship including management of rooms on board. The system assigns passengers to rooms according to the allocations done on shore and opens an extra charge account for each passenger. Upon check in it is possible to join a few accounts into one per family or party.

Maintaining records is important and with this system we can easily search and update details. Easy to implement and use is one of the key features of this system.

The main goal of “The Sailing Bee” is maintaining the ship details, Employee details, package details, different amenities’ details which are related to the ships, maintaining the overall details like schedule and the timetable of the particular cruise ship, Employee work order details, amenity requirement details, list of all Employees work order details and generates the summary report of pay bill of the Passenger and salary for each Employee.

PROJECT CHARTER

<table>
<tr><td>Project Title :</td><td>Cruise Booking Management</td></tr>
<tr><td>Statement :</td><td>Book a Cruise Online</td></tr>
<tr><td>Objectives :</td><td>The main objective of this project is to develop a website to help customer book a cruise online.
This will also save the cost and time for booking for particular cruise.</td></tr>
<tr><td>Scope :</td><td>➢ Login module
➢ Home Page
➢ User Dashboard
➢ Admin Dashboard
➢ Details of a particular cruise
➢ Payment Gateway (future enhancement)</td></tr>
<tr><td>Milestones :</td><td>
<table>
<tr><th>Parameters</th><th>Start Date</th><th>Expected End Date</th><th>Actual End Date</th></tr>
<tr><td>Home Page</td><td></td><td></td><td></td></tr>
<tr><td>Login Module</td><td></td><td></td><td></td></tr>
<tr><td>Cruise Detail Page</td><td></td><td></td><td></td></tr>
<tr><td>User Details filling form</td><td></td><td></td><td></td></tr>
<tr><td>Booking</td><td></td><td></td><td></td></tr>
<tr><td>Search Module</td><td></td><td></td><td></td></tr>
<tr><td>Report</td><td></td><td></td><td></td></tr>
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</td></tr>
<tr><td>Date of Completion :</td><td></td></tr>
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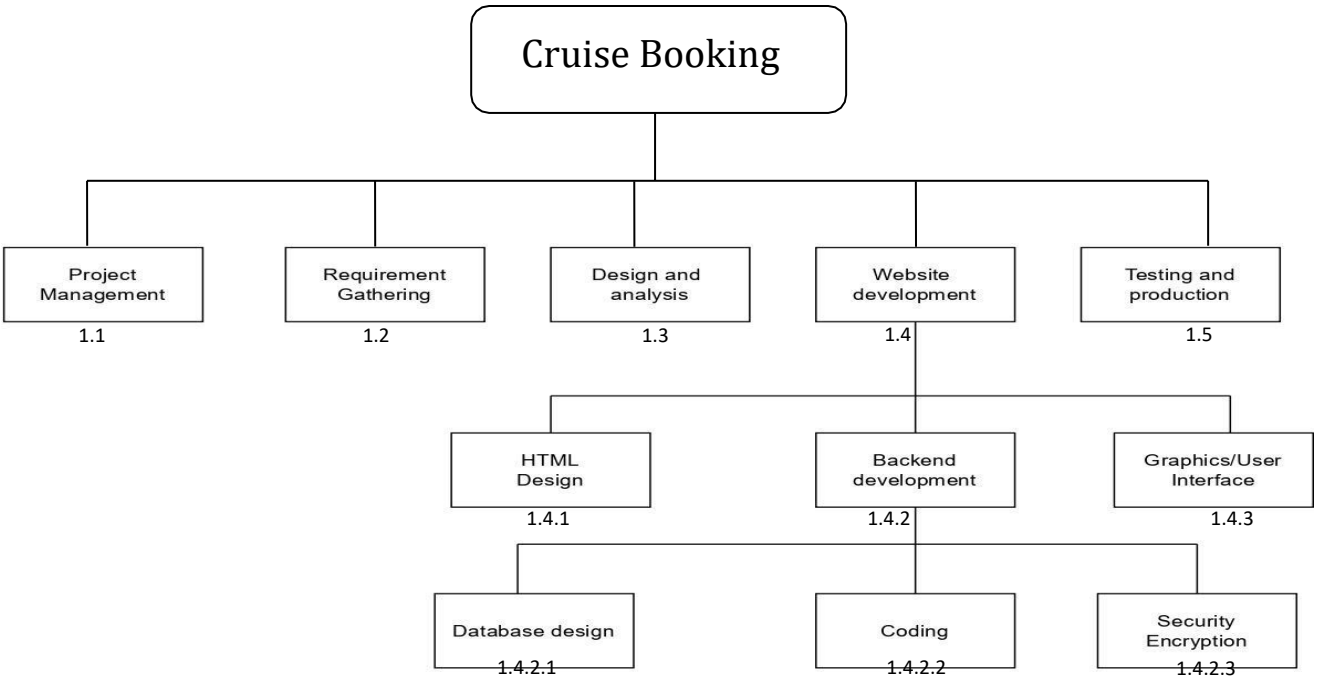
WORKBREAKDOWN STRUCTURE (WBS)



HARDWARE & SOFTWARE REQUIREMENT

HARDWARE AND SOFTWARE SPECIFICATION:

- **HARDWARE PLATORM**

MICROPROCESSOR : PENTIUM III AND ABOVERAM :
2 GB AND ABOVE

HDD : 500 GB AND ABOVE

- SOFTWARE PLATFORM

FRONTEND : HTML,CSS, PHP

BACKEND : MYSQL

OPERATING SYSTEM : WINDOWS 7 and Above

SCOPE OF THE PROPOSED SYSTEM

The project is basically meant to computerize the existing system for Order and so as to gain accuracy, processing speed, data Consistency, integrity, better error handling. The proposed system mainly covers the following points.

- Master Maintenance

  Under this module the system maintains bill, payment & receipts.

- Enquiry Process

  Under this module the system maintains enquiry details of the passenger with their name, address, contact no., email.

- Feedback Process

  This module provides the information about the feedback of the passengers.

- Report Generation

  Daily, Monthly reports are generated.

- Cruise Process

  This module provides information about various booking processes.

- Maintaining Cruise details

  This system maintains ship details along with its description.

- Employee/Staff records

  Maintains onboard Staff records.

- Passenger Services

  Extra services like movies, food etc. can be included.

- Cancellation

  Any pre-booked rooms on the cruise may be cancelled.

- Schedule

  Maintaining schedule of daily activities.

- Packages

  Maintaining various Packages and discount details on tours.

- Billing Process

  Final billing process.

PROPOSED SYSTEM

- This product interacts with mainly two entities i.e. Passenger and Staff.
- The automated system with distributed architecture can support issues like

  - Non-availability of Amenities.
  - Inefficient staff and immediate Redressal
  - Emergency Situations and Rescue options

- The system maintains the details of all types of cruise ships.

Following are the objectives of the proposed system.

- To keep proper update record of master data such as staff details, cruise details,passenger details, amenities details.
- To keep proper update record of feedback details.
- To maintain record of passenger points to give them receipts and account details basedon their transaction.
- To calculate and compute transaction as it is based on various parameters.
- Transaction system includes day to day transaction, operations, accounting data andreceipts details.
- To generate various reports and statements in prescribed format.
- To facilitate the user to generate accurate, timely and neat reports.
- The details about the package and related schedule to passenger is provided in a shortperiod of time.
- All the Ship details, work order details, Passenger details are segregated and storedconsistently with unique Ids.
- Transaction system includes day to day transaction, operations, accounting data andreceipts details.
- To generate various reports and statements in prescribed format.
- To facilitate the user to generate accurate, timely and neat reports

FACT FINDING TECHNIQUES

A kind part of feasibility analysis is gathering information about the present system. These include the questionnaires, interviews, record review and observation. The analyst must know what information to gather,to make of it. The proper use of tools for gathering information is the key to success analysis.

I have used four fact finding techniques in our system analysis.

- Questionnaires
- Interviews.
- Record Reviews.
- Observation

- **Interview Techniques**

This technique is used to gather information from top people of "Cruise Booking System". Questions were asked regarding the manual procedure of the passenger bookings and staff training. By using Interview techniques, I knew what exactly their requirements were and how they carry out manual procedures?

What are the major inputs and outputs to the system?

- **Record Searching**

This technique helped me to know that how do they store data in their files. Which transactions affectwhich types of files? What type of updates they perform?

- **Observations**

This technique helped me to know the actual flow of the documents; the persons involved in the procedures, what steps they follow. I also came to know about the pros and cons of their manual system.

FEASIBILITY STUDY

As a part of preliminary investigation, the feasibility study was carried out. The proposed system was viewed fro three aspects.

Social Feasibility:-

Although generally there is always resistance, albeit initially to any change in the system, the system is aimed atrelieving the work load of the end users. The system has been developed keeping the staff, their work culture and their previous habits in their mind. The system is going to help the end users to perform the maintenance of the records and report generation with the least possible errors. Moreover the system is very user friendly. Thus,there is no reason for the project to be socially unfeasible.

Operational Feasibility:-

Proposed system has been developed keeping the point of view of existing employees. **Cruise BookingSystem** already has the staff with the required technical knowledge to operate the system. So, the need to recruit, select and train new employees to operate the system is not really felt. The system being highly graphically interactive, the need of highly trained technical staff is not required. Thus the system is operationally feasible.

Technical Feasibility:-

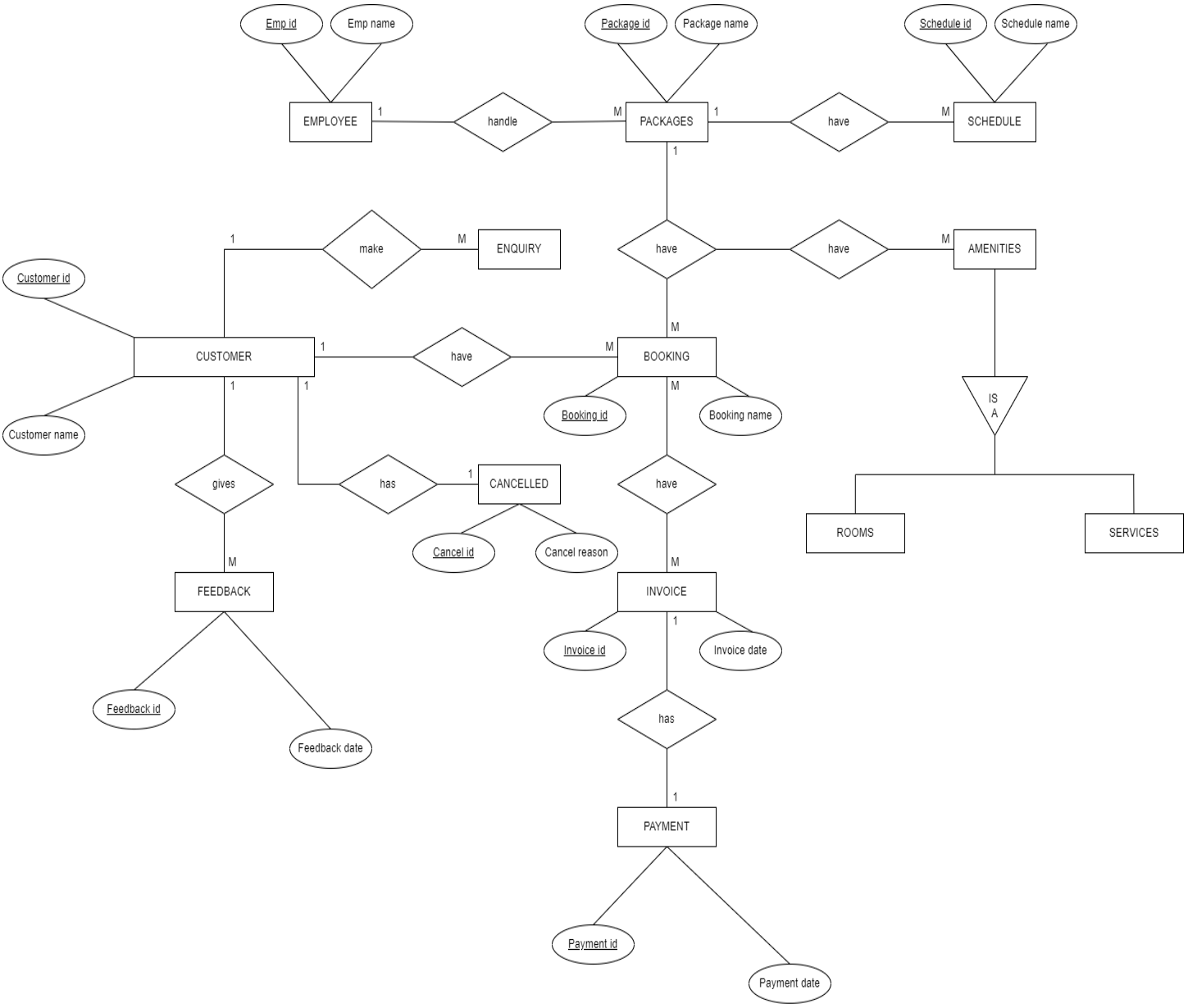
The proposed system will be built using PHP as frontend and My SQL as backend which fits in the hardwareconfiguration specified by the organization. Thus, new system will not be cost bearing for the organization

Economical Feasibility:-

Keeping in view all the other parts of feasibility, it automatically reflects the system also seems to be economically feasible. It will reduce the organization’s hardware and software expenses to some extent.

SYSTEM DESIGN

ENTITY RELATIONSHIP DIAGRAM(ERD)



FILE DESIGN

Bill

Field Name	Data Type	Size	Constraint	Description
Bid	Number	4	Primary Key	Bill ID
Pid	Number	4	Foreign Key	Passenger ID
Pname	Number	25	Not null	Passenger Name
Bkid	Varchar	15	Foreign Key	Booking Id
Billdate	Varchar	15	Not null	Bill Date
tax	Number	10	Not null	Tax
Total	Number	15	Not null	Total amount(exclusive of tax)
payable_amt	Number	15	Not null	Amount Payable

Enquiry

Field Name	Data Type	Size	Constraint	Description
Eid	Number	4	Primary Key	Enquiry ID
Edate	Date/Time	8	Not null	Date of Enquiry
Ename	Varchar	25	Not null	Name
Address	Varchar	25	Not null	Address
Contact	Number	10	Not null	Contact
Email	Varchar	20	Not null	Email ID

Customer Registration for Booking

Field Name	Data Type	Size	Constraint	Description
Pid	Number	4	Primary Key	Passenger ID
Pname	Varchar	25	Not null	Passenger Name
Paddr	Varchar	25	Not null	Passenger Address
Gender	Varchar	15	Not null	Gender
Pstate	Varchar	20	Not null	State
Pcountry	Varchar	20	Not null	Country
Pin	Number	6	Not null	Pincode
Pcity	Varchar	20	Not null	City
Contact	Number	10	Not null	Mobile
Email	Varchar	20	Not null	Email ID

Booking

Field Name	Data Type	Size	Constraint	Description
Bkid	Number	4	Primary Key	Booking ID
Pkid	Number	4	Foreign Key	Package ID
cruise_id	Number	4	Foreign key	Cruise ID
Cruise Name	Varchar	20	Not null	CruiseName
Pid	Number	4	Foreign Key	Passenger ID
Pname	Varchar	25	Not null	Passenger Name

Package

Field Name	Data Type	Size	Constraint	Description
Pkid	Number	4	Primary Key	Package ID
cruise_id	Number	4	Foreign Key	Cruise ID
Pkdate	Date/Time	8	Not null	Package Date
Source	Varchar	15	Not null	Starting Location
Destination	Varchar	15	Not null	Ending Location
ar_time	Date/Time	8	Not null	Arrival Time
no_of_days	Number	20	Not null	No of days in Package
Amt	Number	4	Not null	Package Amount

Feedback

Field Name	Data Type	Size	Constraint	Description
Fid	Number	4	Primary Key	Feedback ID
Pid	Number	4	Foreign Key	Passenger ID
Pname	Varchar	25	Not null	Passenger name
Satisfied	Varchar	20	Not null	Satisfactory or Not
Remarks	Varchar	20	Not null	Feedback
Fdate	Date/Time	8	Not null	Feedback Date

Amenities Charges

Field Name	Data Type	Size	Constraint	Description
Aid	Number	4	Primary Key	Amenity ID
Aname	Varchar	25	Not null	Amenity Name
Pid	Number	4	Foreign Key	Passenger ID
Pname	Varchar	25	Not null	Passenger Name
Description	Varchar	20	Not null	Description
Rate	Number	4	Not null	Rate of Amenity
Adate	Date/Time	8	Not null	Date

Payment

Field Name	Data Type	Size	Constraint	Description
Payid	Number	4	Primary Key	Payment ID
Pid	Number	4	Foreign Key	Passenger ID
Pname	Varchar	25	Not null	Passenger Name
Pdate	Date/Time	8	Not null	Payment Date
Paymode	Varchar	15	Not null	Payment Mode
Chequeno	Number	15	Not null	Cheque Number
Bankname	Varchar	15	Not null	Bank Name
Amount	Number	20	Not null	Total Payment Amount

Cancellation

Field Name	Data Type	Size	Constraint	Description
Canid	Number	4	Primary Key	Cancellation ID
Cdate	Date/Time	8		Cancellation Date
pid	Number	4	Foreign Key	Passenger ID
Pname	Varchar	25		Passenger Name
Bkid	number	4	Foreign Key	Booking Id
Cdesc	Varchar	15	Not null	Description

Schedule

Field Name	Data Type	Size	Constraint	Description
sch_id	Number	4	Primary Key	Schedule ID
Pkid	number	4	Foreign Key	Package Id
ship_id	Number	4	Foreign Key	Ship ID
Sdate	Number	4	Not null	Starting Date
Edate	number	4	Not null	Ending Date
Ndays	Number	4	Not null	No. of Days

Employee

Field Name	Data Type	Size	Constraint	Description
Id	Number	4	Primary Key	Staff ID
Jdate	Date/Time	8	Not null	Joining Date
ename	Varchar	25	Not null	Staff Name
econtact	Number	10	Not null	Contact No.
email	Varchar	15	Not null	Email
address	Varchar	25	Not null	Address
designation	Varchar	15	Not null	Post of Staff on cruise
Bsal	Number	5	Not null	Basic salary

DATA DICTIONARY

Field Name	Data Type	Size	Constraint	Description
Adate	Date/Time	8	Not null	Date
Address	Varchar	25	Not null	Address
Aid	Number	4	Primary Key	Amenity ID
Amount	Number	20	Not null	Total Payment Amount
Amt	Number	4	Not null	Package Amount
Aname	Varchar	25	Not null	Amenity Name
ar_time	Date/Time	8	Not null	Arrival Time
Bankname	Varchar	15	Not null	Bank Name
Bid	Number	4	Primary Key	Bill ID
Billdate	Varchar	15	Not null	Bill Date
Bkid	Number	4	Primary Key	Booking ID
Canid	Number	4	Primary Key	Cancellation ID
Cdate	Date/Time	8	Not null	Cancellation Date
Cdesc	Varchar	15	Not null	Description
Chequeno	Number	15	Not null	Cheque Number
Contact	Number	10	Not null	Contact
Cruise Name	Varchar	20	Not null	CruiseName
cruise_id	Number	4	Foreign Key	Cruise ID

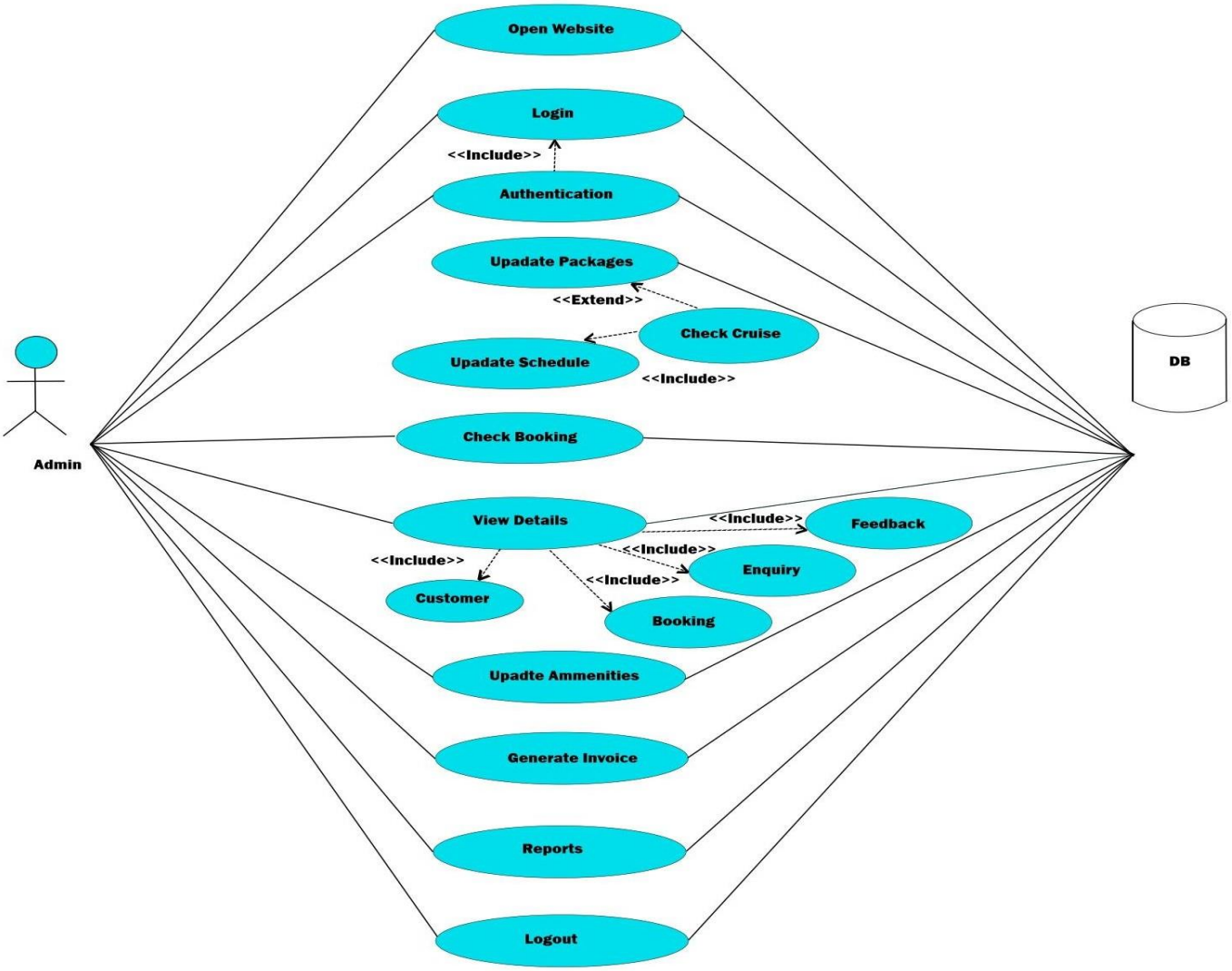
Edate	Date/Time	8	Not null	Date of Enquiry
Eid	Number	4	Primary Key	Enquiry ID
Email	Varchar	20	Not null	Email ID
Ename	Varchar	25	Not null	Name
Fdate	Date/Time	8	Not null	Feedback Date
Fid	Number	4	Primary Key	Feedback ID
Gender	Varchar	15	Not null	Gender
Ndays	Number	4	Not null	No. of Days
no_of_days	Number	20	Not null	No of days in Package
pac_id	Number	4	Primary Key	Package ID
Paddr	Varchar	20	Not null	Passenger Address
payable_amt	Number	4	Not null	Amount Payable
Payid	Number	4	Primary Key	Payment ID
Paymode	Varchar	15	Not null	Payment Mode
Pcity	Varchar	15	Not null	City
Pcountry	Varchar	15	Not null	Country
Pdate	Date/Time	8	Not null	Payment Date
pid	Number	4	Foreign Key	Passenger ID
Pin	Number	6	Not null	Pincode
Pkdate	Date/Time	8	Not null	Package Date
Pkid	Number	4	Primary Key	Package ID
Pname	Varchar	25	Not null	Passenger Name

Pstate	Varchar	15	Not null	State
Rate	Number	4	Not null	Rate of Amenity
Remarks	Varchar	20	Not null	Feedback
Satisfied	Varchar	20	Not null	Satisfactory or Not
Sdate	Number	4	Not null	Starting Date
Source	Varchar	15	Not null	Starting Location
tax	Number	4	Not null	Tax
Total	Number	8	Not null	Total amount(exclusive of tax)
Description	Varchar	20	Not null	Description

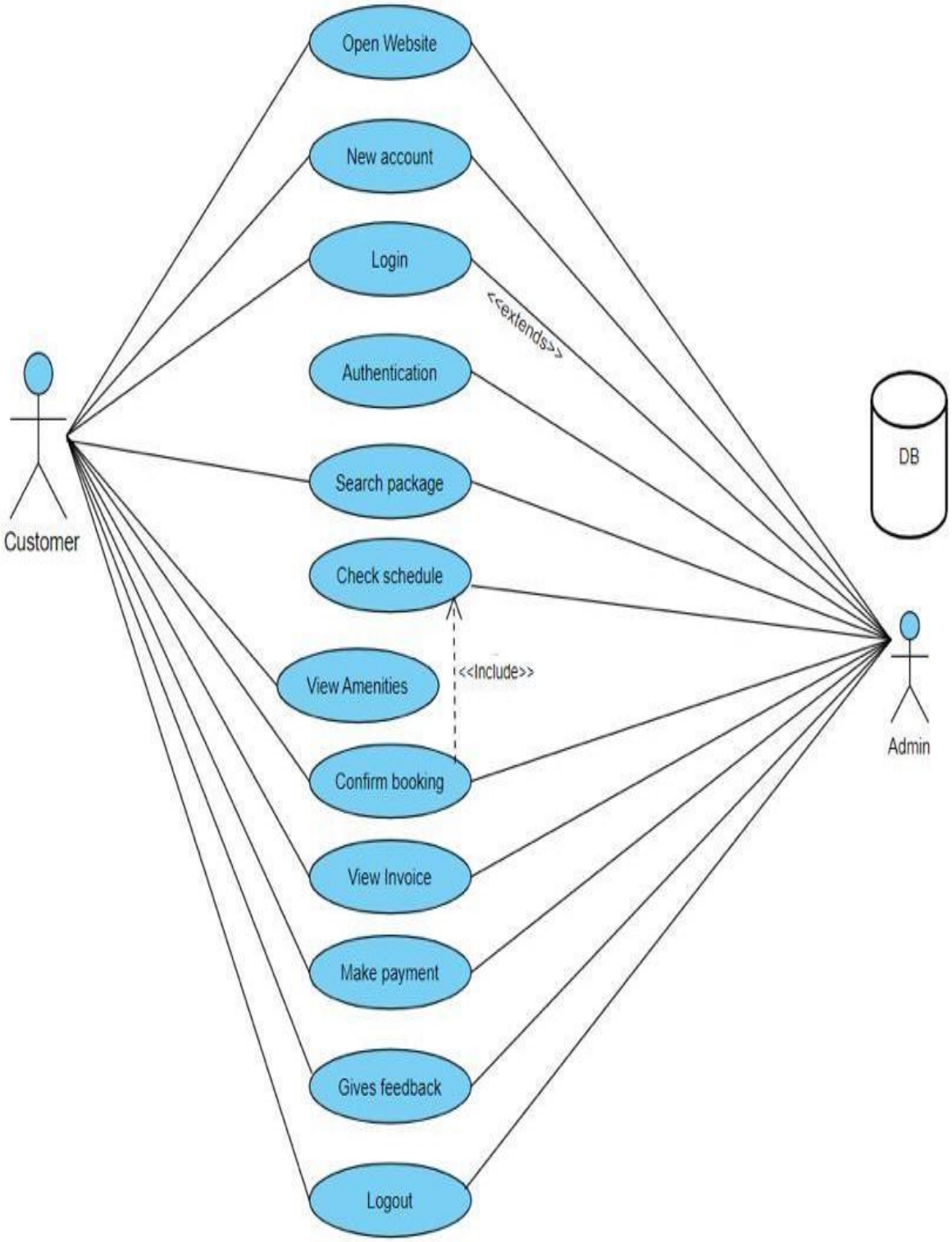
UML DIAGRAMS

USE CASE DIAGRAMS

Use Case Diagram for Admin :

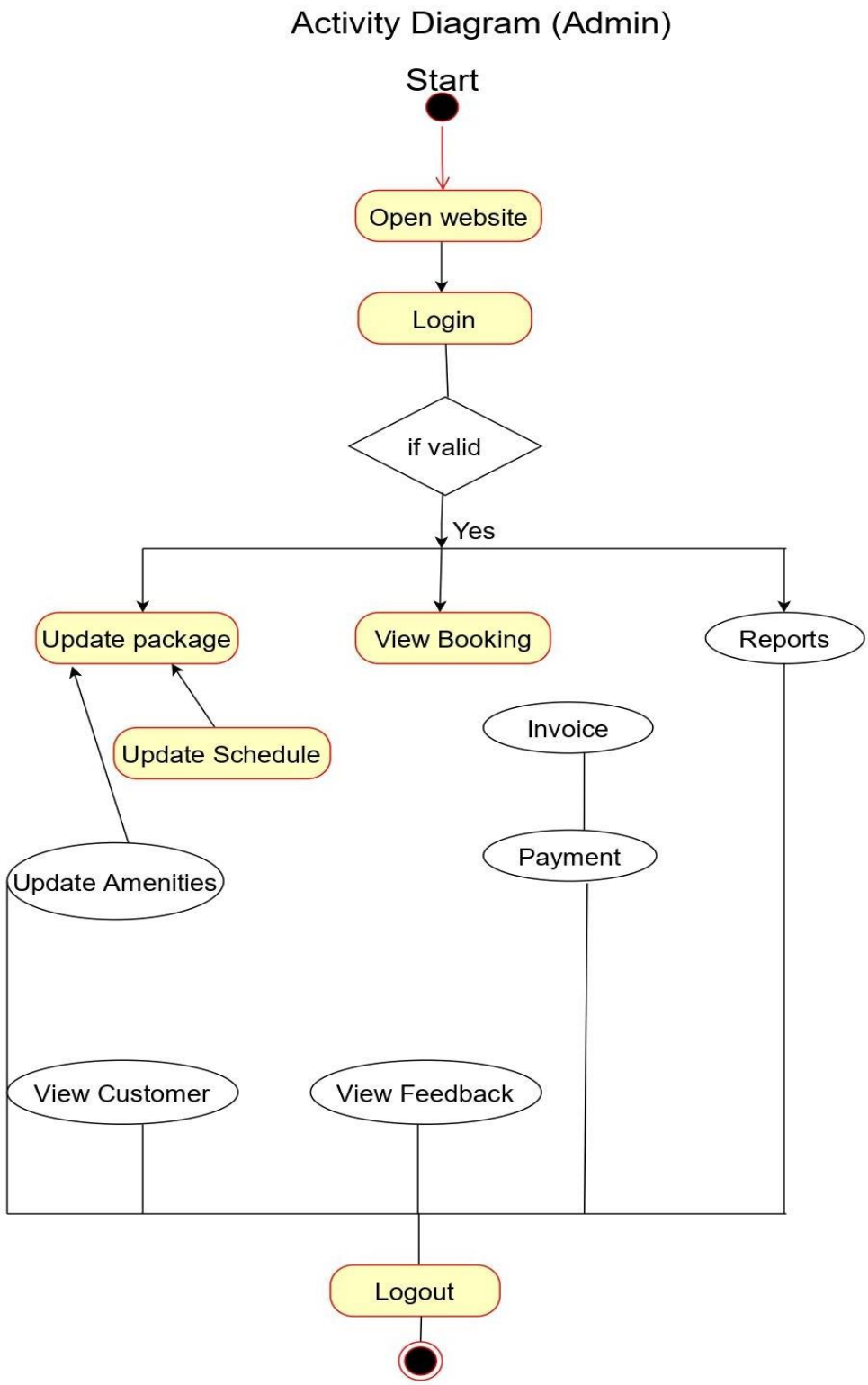


Use Case Diagram for Customer :

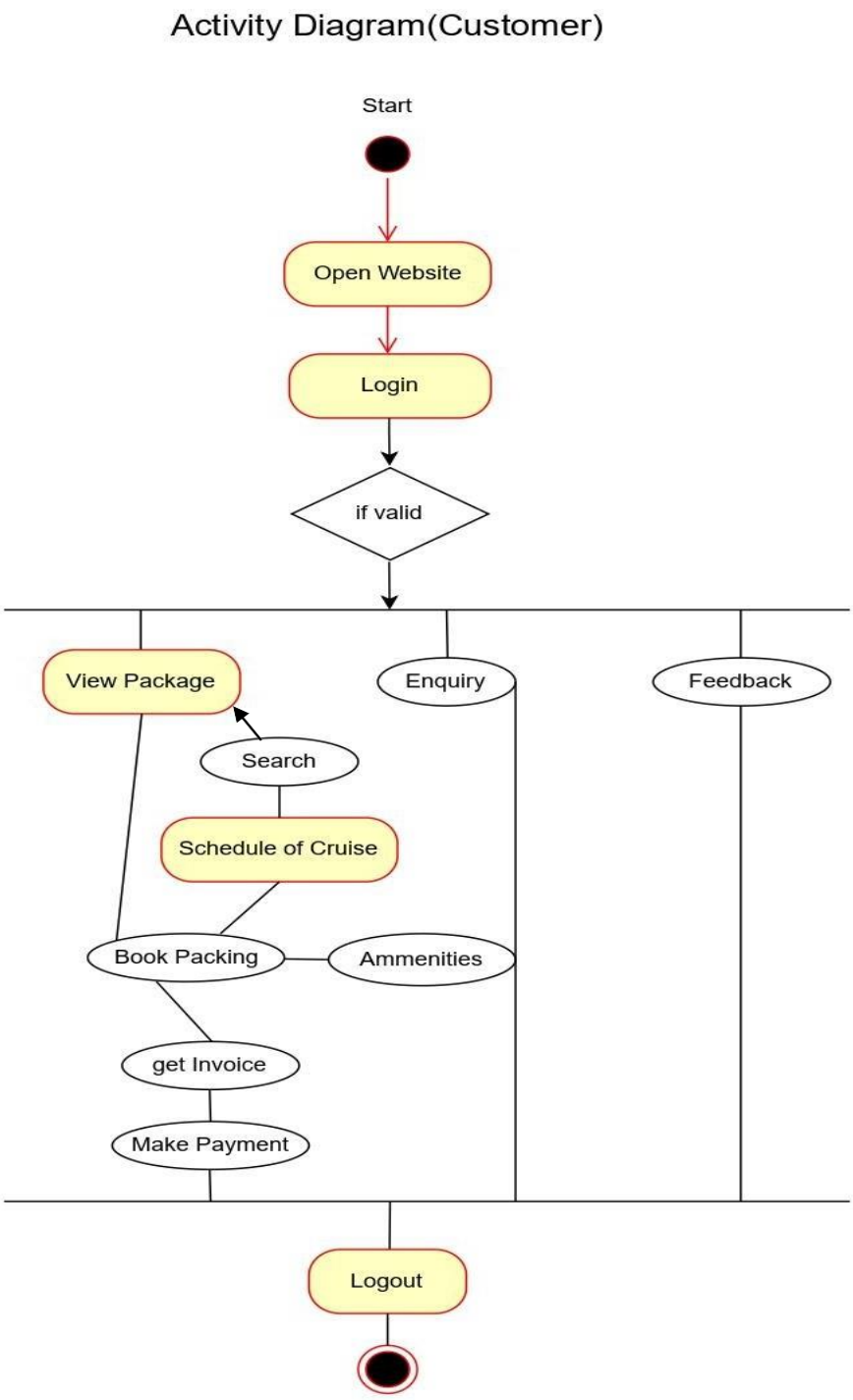


ACTIVITY DIAGRAMS

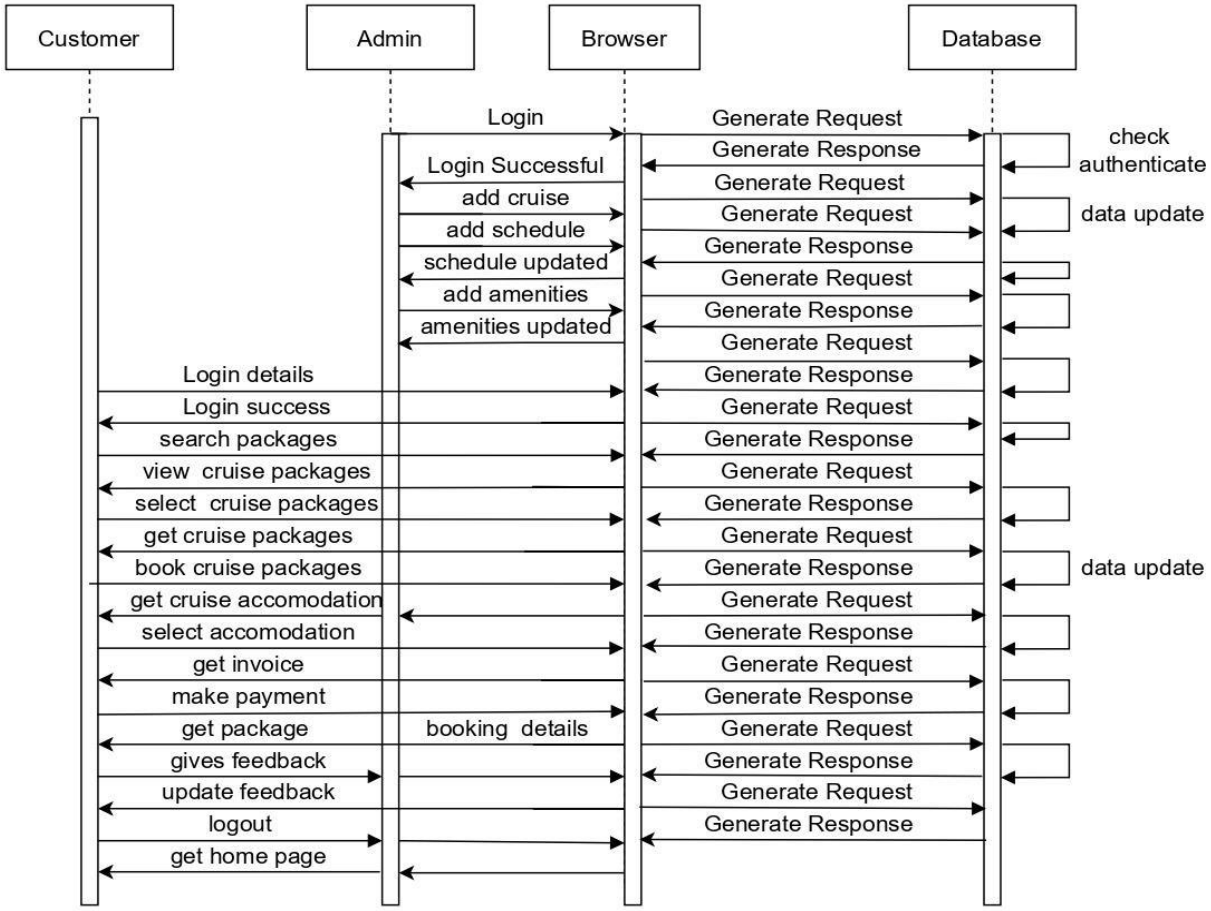
Activity Diagram for Admin :



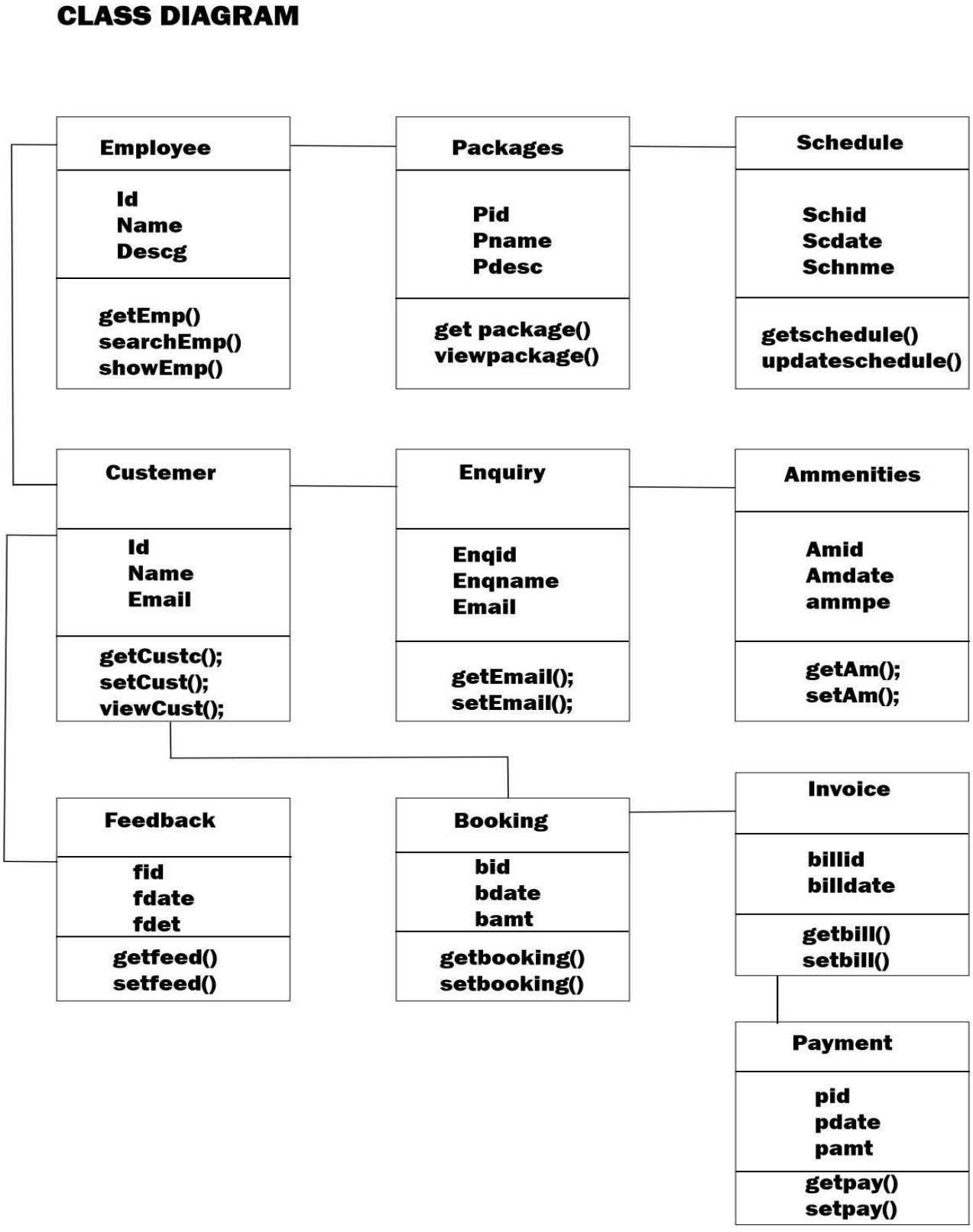
Activity Diagram for Customer :



SEQUENCE DIAGRAM



CLASS DIAGRAM



FORM DESIGN (WITH INPUT VALUES)

ADVANTAGES AND LIMITATIONS:

ADVANTAGES:

- ✓ Increase profitability
- ✓ **Increase goodwill**
- ✓ Storage of huge amount data
- ✓ **Save time**
- ✓ Reduce manpower
- ✓ **Provide quick access**
- ✓ Increase efficiency
- ✓ **Reduce drawback of manual system**
- ✓ **Reduce paper work**

Limitation:

- ➢ Current system handled by only one user
- ➢ **Orders cannot be placed by Customer**

FUTURE SCOPE AND ENHANCEMENT:

- ❖ System can be provided with backup facility
- ❖ An administration module can be designed to keep track of various types of deleted transactions and accordingly updated data and consistency of database.
- ❖ Various payment modes can be made available.

Thank You