

HOTEL MANAGEMENT SYSTEM PROJECT REPORT

Introduction

The hotel management system project is a software developed to maintain and manage the various hotel task and processes. Its main goals are to increase income, streamline operations, and eliminate human labor.

The primary goal of hotel management is to maintain a steady influx of visitors and guests, as well as to promote the hotel's extensive range of services and USPs and how they benefit visiting customers through marketing campaigns. This application allows the hotel management the ability to operate the entire system from a single online interface, giving them more power and flexibility.

Hotel Management System Project Abstract

The hotel management system aims to maintain and manage the various hotel tasks and processes. It is primarily responsible for hotel management in the database's core section. The system gives information on the various hotels that are available, as well as their current availability status. Guests can come to the website and register with the system by providing the required information. Each registered guest can request unit reservations. The guests are given information about the availability of the units because they have requested a specific time.

This application allows the hotel management the ability to operate the entire system from a single online interface, giving them more power and flexibility. Room booking, staff management, and other hotel management services are included in this project.

The manager can use the system to advertise available rooms. Customers may see and reserve rooms from the comfort of their own homes. Admin has the authority to approve or reject a customer's booking request. Other hotel services are also available for consumers to see and book. As a result, the system may be used by both consumers and management to control hotel activities on the go.

Hotel Management System Project Proposal

The Hotel Management System Project is proposed to give solutions to the major problems faced by various hotel management. This proposal for the hotel management system project has a collection of reasons why it should be developed and implemented. It includes a brief introduction of the project, problem statement, solution, and scope.

Problem Statement: Traditional hotel management does not include all functions, such as the location of the consumer, the amount of payment for the reservation, and what they are doing right now. The hotel is experiencing a number of issues that are affecting the hotel's reliability, performance, efficiency, and effectiveness in day-to-day operations.

The following are some of the significant issues:

- Customers' reservations are inefficient.
- They are unable to promote the services that they desire.
- Hotel information is inaccessible.
- Data insertion and retrieval are tough.
- Report generation is challenging.
- Information delays in the collection and processing of client data.

Solution: To address the aforementioned issues, creating a computerized hotel management system is proposed to effectively and efficiently manage hotel service. The Hotel Management System project can maintain and manage the various hotel tasks and processes. It is primarily responsible for hotel management in the database's core section. The system gives information on the various hotels that are available, as well as their current availability status. Guests can come to the website and register with the system by providing the required information.

Project Scope: The Hotel Management System software automates major hotel processes like COD generation, billing, and keeping track of daily transaction data. The database can be controlled and modified by the admin.

Hotel Management System Project Modules

- **Customer Management:** This module manages the activities happens in customer management. The customer management module helps the hotel admin with the securing of all the customer transactions and accommodation.
- **Services Management:** In order to compete with the other companies in hotel business, this module must be present in the system. This will save and monitor the services rendered by the employees to the customers. And the services were all based from what the hotel offers
- **Rooms and Accommodation Management:** This module will check and update all the rooms and accommodation status to provide the customers the quality services. It will also lighten the jobs of the hotel admin because this module records all the basic information and status of the hotel rooms.
- **Reservation Management:** Nowadays, people and most of the customers are fond of the reservations before they avail the services. It is because that they secure already the accommodation before they go to the hotel. With this module, the customer can choose the accommodation that they want and avail the services they desire.
- **Customer Transaction Monitoring:** This task requires a lot of effort to do, that is why it is essential to be present in the system. It will secure all the transactions made by the customers as well as the status of their transactions.
- **Employee Management:** Employee management refers to the endeavor to assist employees in doing their best work each day in order to meet the organization's wider goals. Employee management encompasses a wide range of jobs and responsibilities, but almost all of them may be categorized into one of five categories. Managers may gain insight into their employees via an employee management system, which allows them to better plan and manage work hours, lowering labor expenses and increasing productivity.

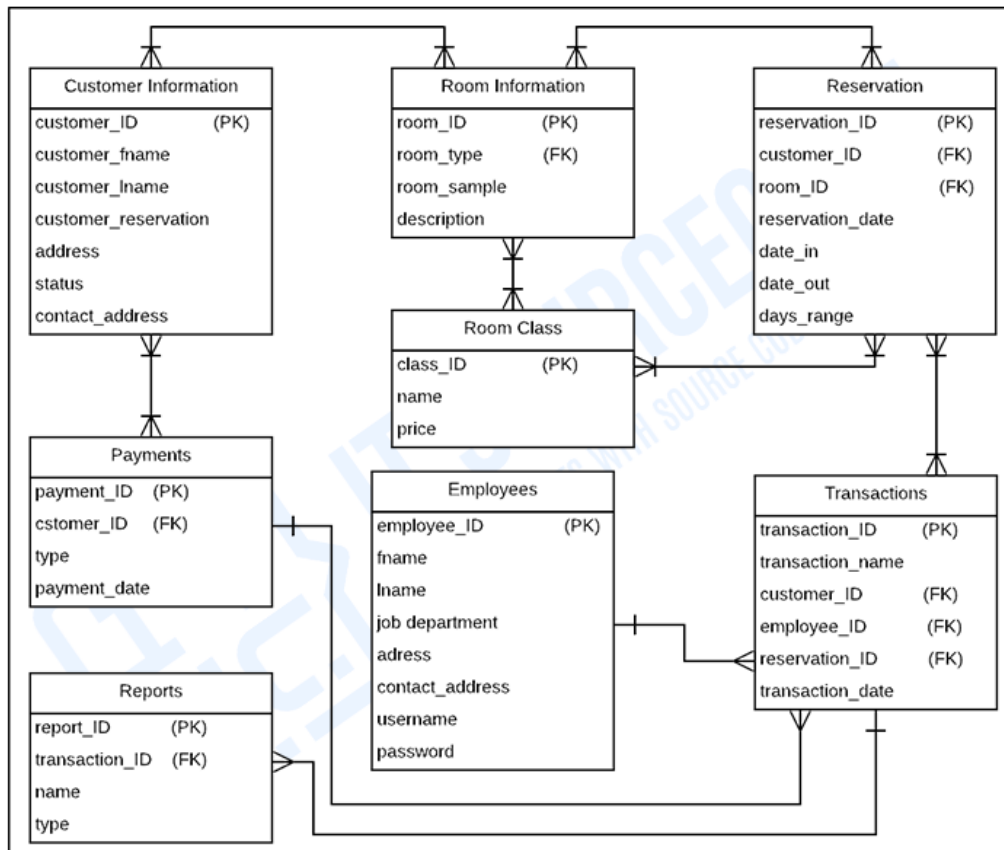
- **Expenses and Revenue Management:** This is crucial for the hotel management because it is the fluid of their business. It must be present to the system in order to secure all the records of the revenues and monitor the expenses made throughout the system.

Diagrams for Hotel Management System Project Methodology Report

Here are the Hotel Management System Diagrams for you to keep as your blueprint documentation in creating Hotel Management System Project.

[Hotel Management System ER Diagram](#) - This hotel management system database was made based on hotel requirements. The system can encode customer information. Hotel admin can have access to the customer status and information for the important transactions. They can handle the data needed in managing customer and employee files as well as the transactions made by the customer and staff.

The features included in the hotel management system ER diagram were the security and monitoring of the customer records, transactions, and status. These features were also listed and recorded in reports that served as the history of transactions done in the system.

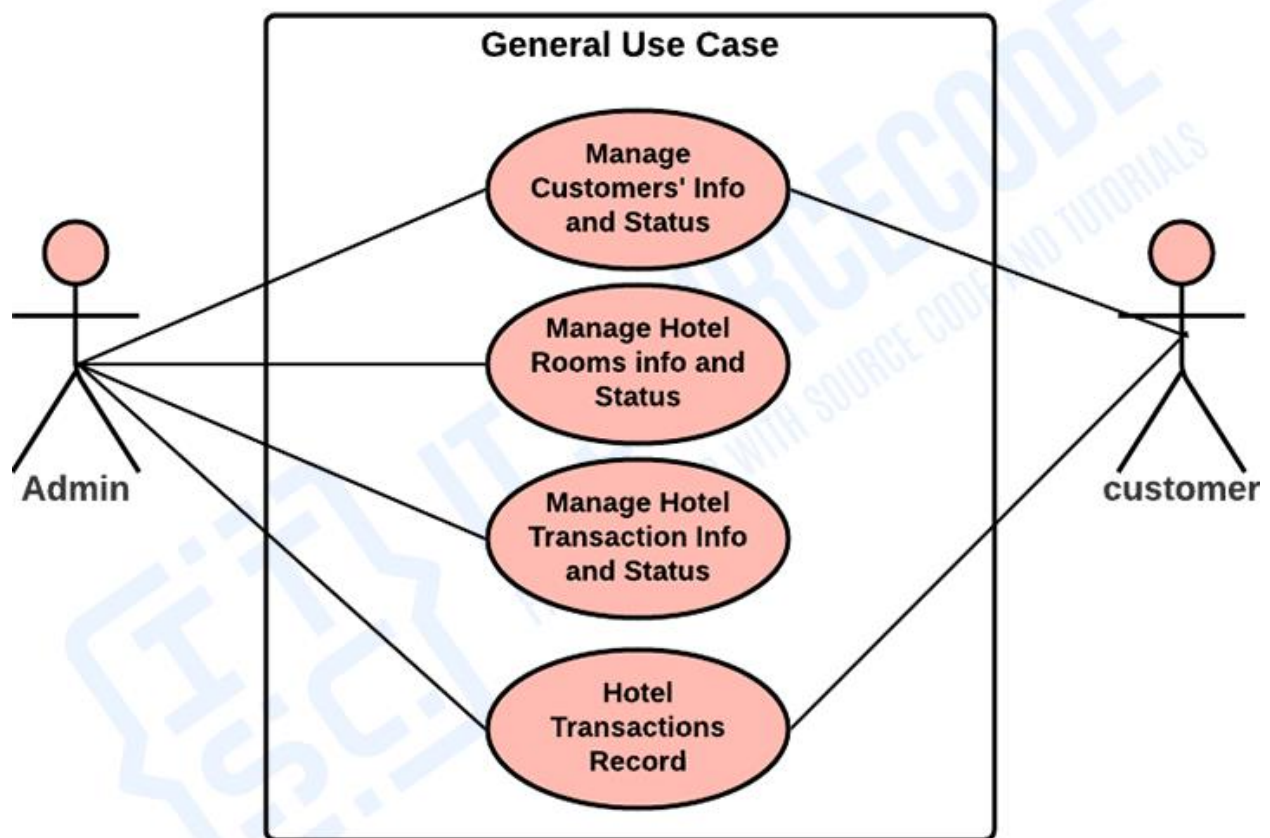


Hotel Management System ER Diagram

Hotel Management System Use Case Diagram - A [use case diagram](#) is a visual representation of how a user might interact with a program. A use case diagram depicts the system's numerous use cases and different sorts of users. The circles or ellipses are used to depict the use cases.

By creating the use case of the Hotel Management System, you must determine first the possible features to identify the flow of the system. After that, you can now create the blueprint or core of the system function.

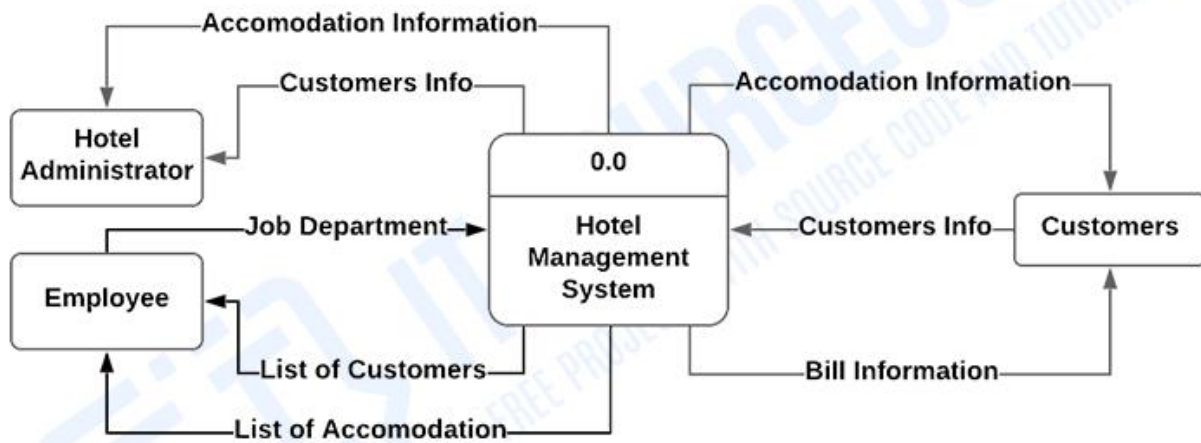
HOTEL MANAGEMENT SYSTEM



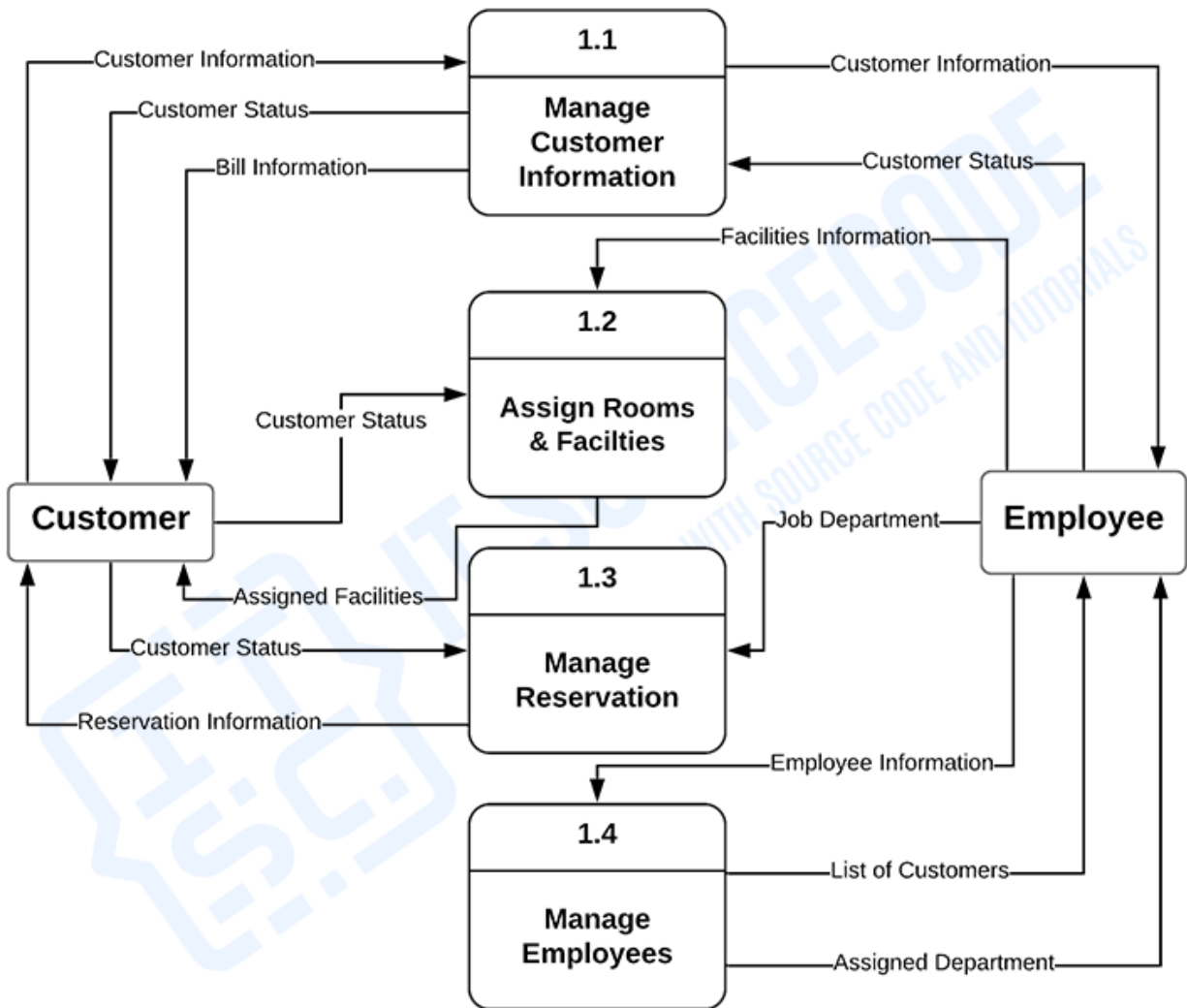
USE CASE DIAGRAM

Hotel Management System Use Case Diagram

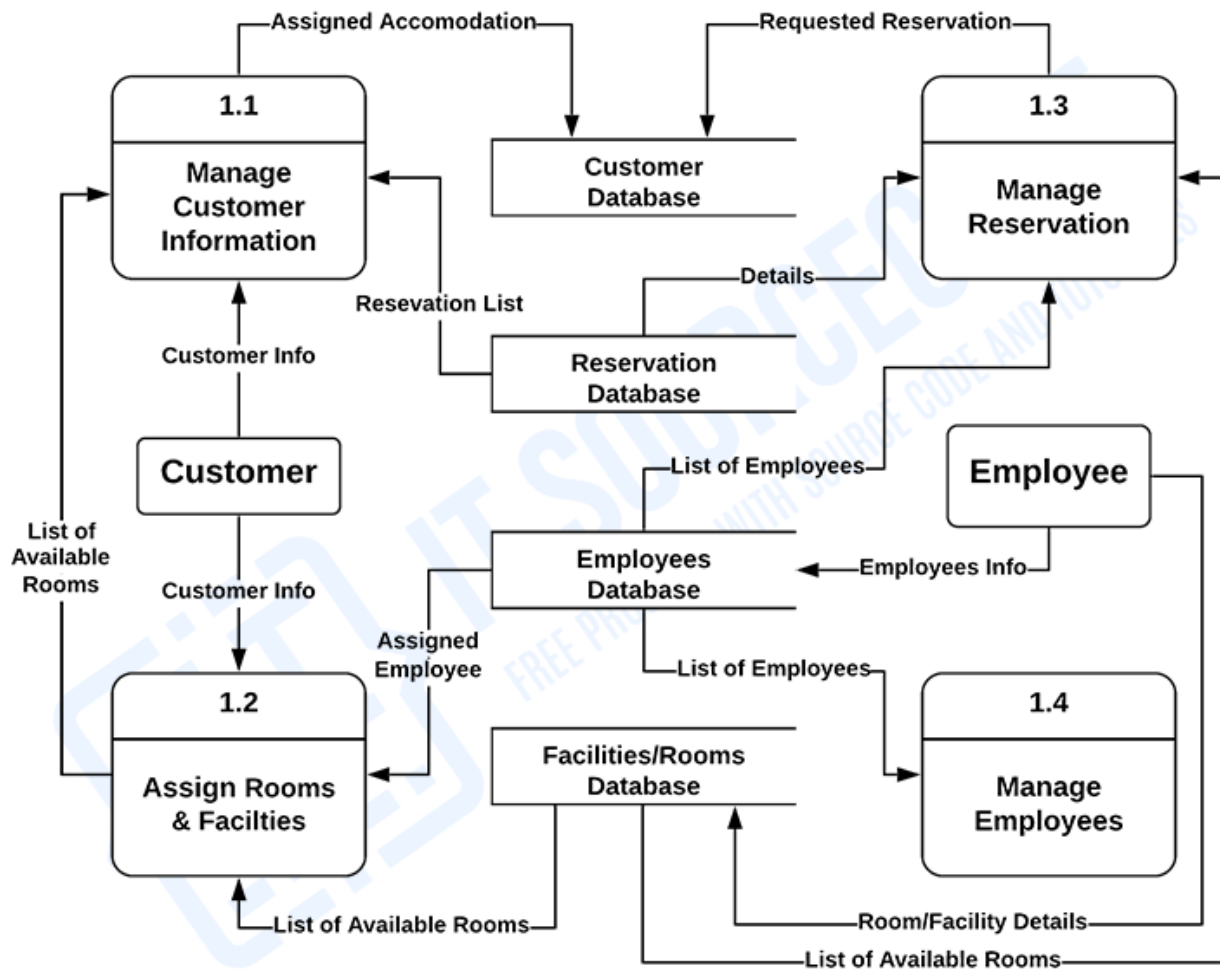
[Hotel Management System DFD Levels 0 1 2](#) - represents the flow of [data](#) and the [transformations](#) in the Hotel Management System. In the DFD, input, processing, and output are used to represent and define the overall system. Hotel Management System helps you find how the system reacts with the user and handles data that the system is receiving from the customers.



Hotel Management System DFD Level 0

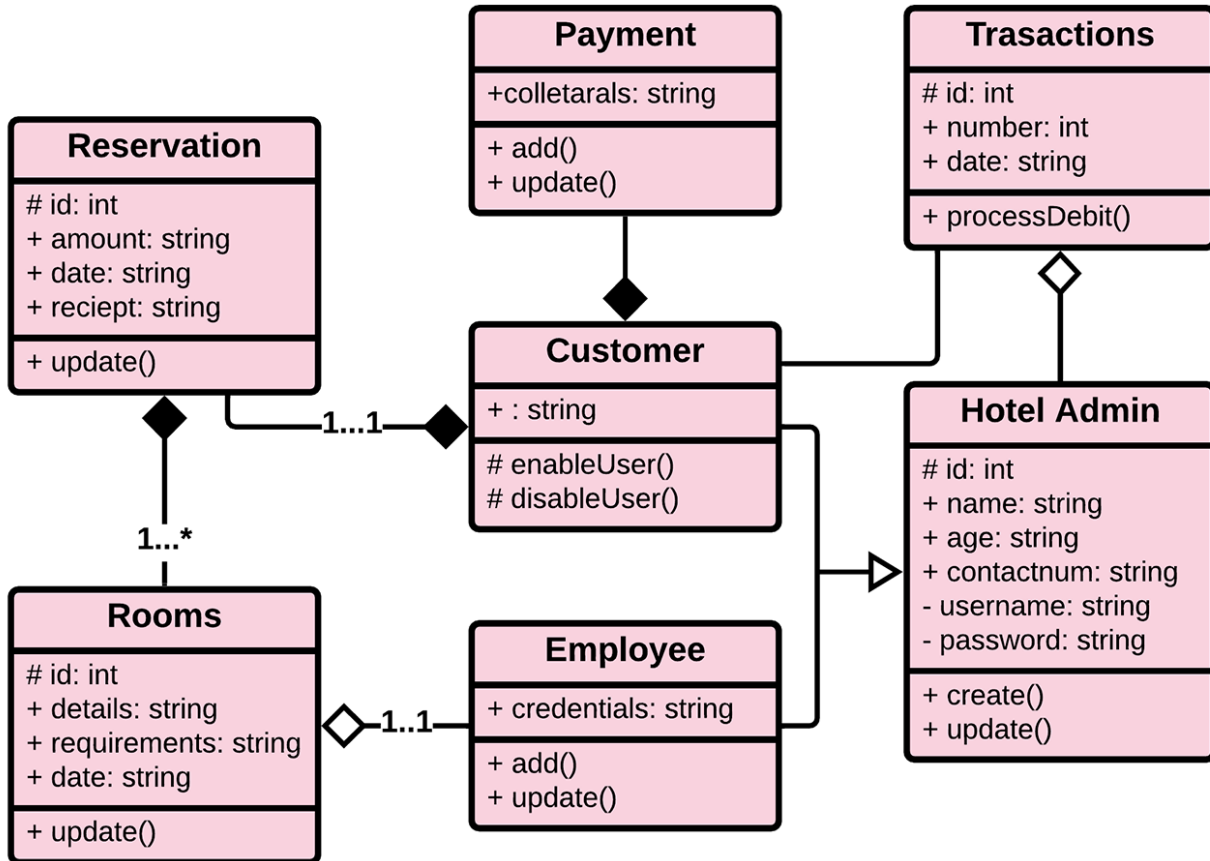


Hotel Management System DFD Level 1



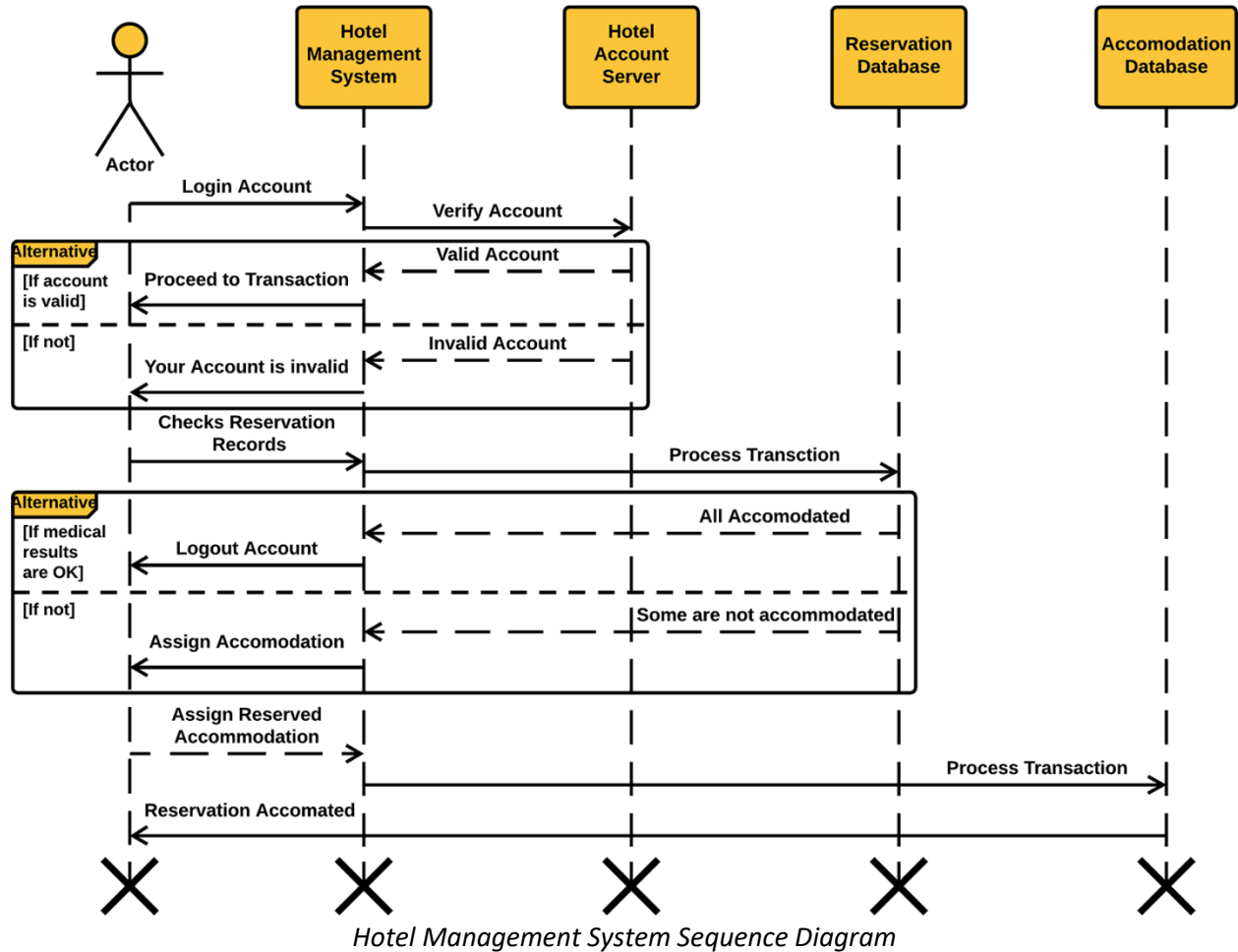
Hotel Management System DFD Level 2

Hotel Management System Class Diagram - is a designed diagram that shows the system's relationships and classes. This UML Class Diagram is made to guide programmers along with the Hotel management system development. It contains the class attributes, methods as well as the relationships between classes. These mentioned contents make sure that your Hotel management system development must in line with what should be its functions.



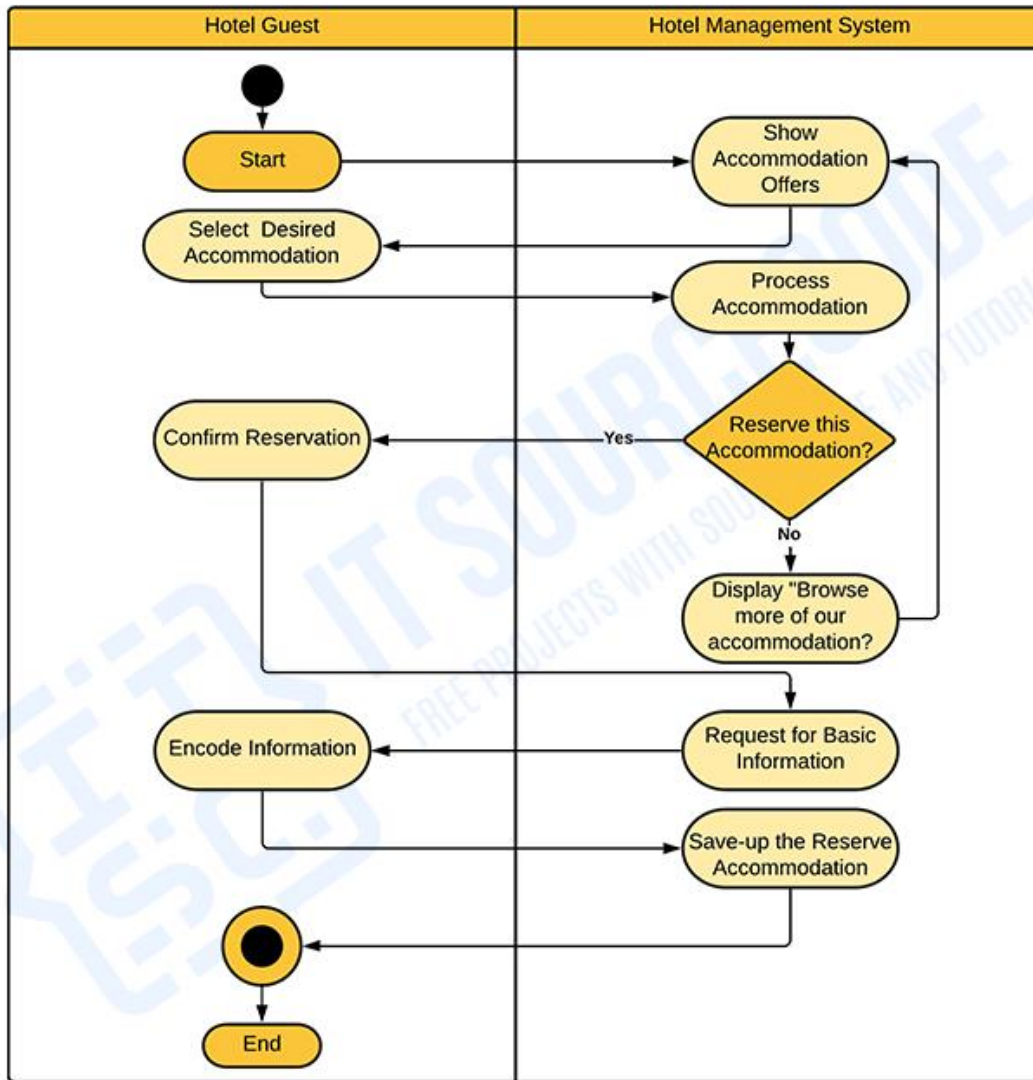
Hotel Management System Class Diagram

Hotel Management System Sequence Diagram - is a UML model that shows the sequence of events that should be present in the Hotel Management. This diagram gives enlightenment and guides the programmers and developers on how should they build the system. The idea presented in a sequence diagram will give efficiency to Hotel Management system development.



[Hotel Management System Activity Diagram](#) - is an illustration of the hotel management software towards its users. This designed activity diagram is used to make an explanation of how would your proposed Capstone Project will interact with its users. To have a clear definition of Hotel management System behavior, the UML activity diagram uses swim lanes, actors, and arrows. This is to give yourself, the readers, and users a clearer vision of your software or project treatment.

HOTEL MANAGEMENT SYSTEM



ACTIVITY DIAGRAM

Hotel Management System Activity Diagram