

ATMIYA UNIVERSITY

RAJKOT



A

Report On

HEALTH ADVISOR

Under subject of

PROJECT

B.TECH Semester– VII

(Computer Engineering)

Submitted by:

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Academic Year

(2022-23)

CANDIDATE'S DECLARATION

We hereby declare that the work presented in this project entitled "HEALTH ADVISOR" submitted towards completion of project in **7th Semester** of B.Tech. (Computer Engineering) is an authentic record of our original work carried out under the guidance of "**Prof. rupal shilu**".

We have not submitted the matter embodied in this project for the award of any other degree.

Semester:

7th Place: Rajkot

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Dave om (190002020)

Bhuva jay (190002012)

ATMIYA UNIVERSITY RAJKOT



CERTIFICATE

Date:

This is to certify that the “HEALTH ADVISOR” has been carried out by **Dave om** under my guidance in fulfillment of the subject Project in COMPUTER ENGINEERING (7th Semester) of Atmiya University, Rajkot during the academic year 2022.

Prof.janak maru

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Prof.rupal shilu

(Head of Department)

ATMIYA UNIVERSITY RAJKOT



CERTIFICATE

Date:

This is to certify that the “HEALTH ADVISOR” has been carried out by **Bhuva jay** under my guidance in fulfillment of the subject Project in COMPUTERENGINEERING (7th Semester) of Atmiya University, Rajkot During the academic year 2022.

Prof. janak maru

(Project Guide)

Prof.rupal shilu

(Head of the Department)

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Dave om (190002020)

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ABSTRACT

As the name specifies “HOSTEL MANAGEMENT SYSTEM” is a software developed for managing various activities in the hostel. For the past few years the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accom-modation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel and software’s are not usually used in this context. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually.

Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system Which is more user friendly and more GUI oriented. We can improve the efficiency of the system, thus overcome the drawbacks of the existing system.

- Less human error
- Strength and strain of manual labour can be reduced
- High security
- Data redundancy can be avoided to some extent
- Data consistency
- Easy to handle
- Easy data updating
- Easy record keeping
- Backup data can be easily generated

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INTRODUCTION

In our current era of automated systems with it being either software or hardware, it's not advisable to be using manual system. Hostels without a management system are usually done manually. Registration forms verification to other data saving processes are done manually and most at times, they are written on paper. Thus a lot of repetitions can be avoided with an automated system.

The drawbacks of existing systems lead to the design of a computerized system that will help reduce a lot of manual inputs. With this system in place, we canim prove the efficiency of the system, thus overcome the drawbacks of the existing manual system. This system is designed in fav our of the hostel management which helps them to save the records of the students about their rooms and other things. It helps them from the manual work from which it is very difficult to find the record of the students and the mess bills of the students, and the information of about the those ones who had left the hostel years before. This system gives an idea about how a student and fee details, room allocation, mess expenditure are maintained in a better way.

The hostel management system will also contain special features like how many students are in a room, student's id and free rooms or space available. The administration has a unique identity for each member as well as students details.

PROJECT OVERVIEW

The hostel management system is web based software to provide college students accommodation to the university hostel more efficiently. This project also keeps details of the hostellers and applied students. It is headed by Warden. He will be the administrator. This document is intended to minimize human works and make hostel allocation an easier job for students and hostel authorities by providing online application for hostel, automatically select the students from the waiting list and mess calculation, complaint registration, noticeboard etc. etc. Students will get approval notification in their mails. Hostellers can view notice board, hostel fee and mess menu by login into the online system

PROBLEM STATEMENT

There are a lot of drawbacks in keeping and maintaining a hostel. Especially with a manual system. Since most hostels are being run by only one hostel manager, the number of students in a room are sometimes not known by the officer. He has to go room by room to ensure that a room is occupied or not. Sometimes people may be owing in the hostel and they are saved on papers or huge notebooks, and sometimes receipts. If the books should go missing or stolen, one would never be able to know if a student is owing or not. Room allocation also becomes a problem as the officer might not know which rooms are available or not. And some hostels have a lot of rooms or have more storeys and it would be very tedious to go through all storeys in search of a free room for an applicant. Also the officer might not know the number of students in a room or know if a room is full or not.

OBJECTIVES

- To make it easier for data collection, storage and referencing reliable.
- To maintain the students as hostellers and waiting list students separately.
- To process allotment list.

DISADVANTAGES

- More human power
- More strength and strain of manual labour needed
- Repetition of same procedure.
- Low security.
- Data redundancy.
- Difficulty to handle.
- Difficulty to update data.
- Record keeping is difficult.
- Backup data can be easily generated

PROPOSED SYSTEM

This project is aimed at developing a system for keeping records and showing information about or in a hostel. This system will help the hostel officer to be able to manage the affairs of the hostel. This system will provide full information about a student in the hostel. It will show rooms available or not and number of people in a particular room. This will also provide information on students who have paid in full or are still owing. This system will also provide a report on the summary detail regarding fees and bills students are owing. Also included is a user module for employees or the hostel officer. There will also be an administrator module which will be accessed by the administrator and has the ability to delete, add and edit employee records. This system will be developed based on Software Development Life Cycle (SDLC) with PHP and My SQL server. PHP is good for the development and design of web based programs whiles My SQL is good for databases because of its security and its advanced features and properties.

➤ TECHNICAL FEASIBILITY

The technical feasibility in the proposed system deals with the technology used in the system. It deals with the hardware and software used in the system whether they are of latest technology or not and if it happens that after a system is prepared, a new technology arises and the user wants the system based on that technology. This system uses windows platform, apache server, sql for database, php as the language and html or xml as user interface. Thus HOSTEL MANAGEMENT SYSTEM is technically feasible.

➤ ECONOMIC FEASIBILITY

Economic analysis is the most frequently used method for evaluating the effectiveness of a new system. More commonly known as cost/benefit analysis. Php, html, xml and sql database are easily available on internet.

➤ OPERATIONAL FEASIBILITY

The project has been developed in such a way that it becomes very easy even for a person with little computer knowledge to operate it. This software is very user friendly and does not require any technical person to operate. Thus the project is even operationally feasible.

REQUIREMENT ANALYSIS AND SPECIFICATION

Functions and features delivered to the end users. The end users of the proposed system are:

➤ USER MODULE

This helps the administrator and user to login to homepage only if password and user name matches.

➤ CHANGE PASSWORD MODULE

Allows the user to change the password.

➤ STUDENT MODULE

This module is used to store student details i.e. information like profile details, contact information, educational details etc. Users can search according different criteria such as name, course, room number etc.

➤ ROOM ALLOTMENT MODULE

This deals with allocation of room to students according to education details, section or course. Rooms will be allocated to students and an ID will be generated for it. It will display details students staying in the room or rooms. When a student leaves the room after the semester, the left date will be also saved.

➤ ROOM FEES MODULE

This displays fee records, student dues status and balance amount status. It is also used to record new students rent every semester.

➤ MESS BILL MODULE

This module keeps track of all transactions related to mess. The mess item expenditure for each student is calculated every month and mess bill for each student is calculated and displayed.

➤ **REPORT GENERATION MODULE**

This is provided to view summary detail regarding hostel fees and bills. Students can check hostel fees and bill details by entering the unique hostel ID.

➤ **SETTINGS MODULE**

In this module, only the administrator can access. Administrator has a unique account with much special access and permissions over normal users. Module allows add, edit, delete and employee records, building block information, room details, course details etc.

Hardware Configuration

- Pentium IV Processor
- 512 MB RAM
- 40GB HDD
- 1024 * 768 Resolution Color Monitor

Note: This is not the “System Requirements”.

Software Configuration

- OS : Windows 7,8,10
- PHP Triad (PHP, MySQL, Apache, and PHPMyAdmin)

Database Document Schema

- Student account creation

Field Name	Data Type	Description
Room no.	Int	A unique no given to student
Name	Varchar	Name of the student.
Index no.	Int	Age of the student
Date_admission	Date	Date of birth of the student
Sex	Varchar	Sex of the student
Reservation	Varchar	Caste of the student

- Administrator Login

Field Name	Data Type	Description
Username	Int	Username of the student
Pass	Varchar	Password of the student

➤ Application form

Field Name	Data Type	Description
Index no	Int	A unique no given to student
Name	Varchar	Name of the student.
Age	Int	Age of the student
dd_birth	Date	Date of birth of the student
Sex	Varchar	Sex of the student
Reservation	Varchar	Reservation if any
Dept	Varchar	department

Course	Varchar	Course of study
Semester	Int	Semester of study
Course_nature	Varchar	Type of course
Date_admit	Date	Date of course admission
Date_end	Date	End of course
Date_host_admit	Date	Date of hostel admission
Local Address	Longtext	Address of student
Permanent Address	Longtext	Address of guardian
Distance	Int	Distance from home

➤ Allotment

Field Name	Data Type	Description
Room no.	Int	A unique no given to student
Name	Varchar	Name of the student.
Index no.	int	Age of the student
Date_admission	date	Date of birth of the student
Sex	Varchar	Sex of the student
Reservation	Varchar	Caste of the student

➤ Vacating and Editing

Field Name	Data Type	Description
Room no.	Int	A unique no given to student
Name	Varchar	Name of the student.
Index no.	int	Age of the student
Date_admission	date	Date of birth of the student
Sex	Varchar	Sex of the student
Reservation	Varchar	Caste of the student

➤ Notice Board

Field Name	Data Type	Description
Title	varchar	The title of the notice
Contents	varchar	It includes the different notice descriptions.

SYSTEM ANALYSIS

Existing System

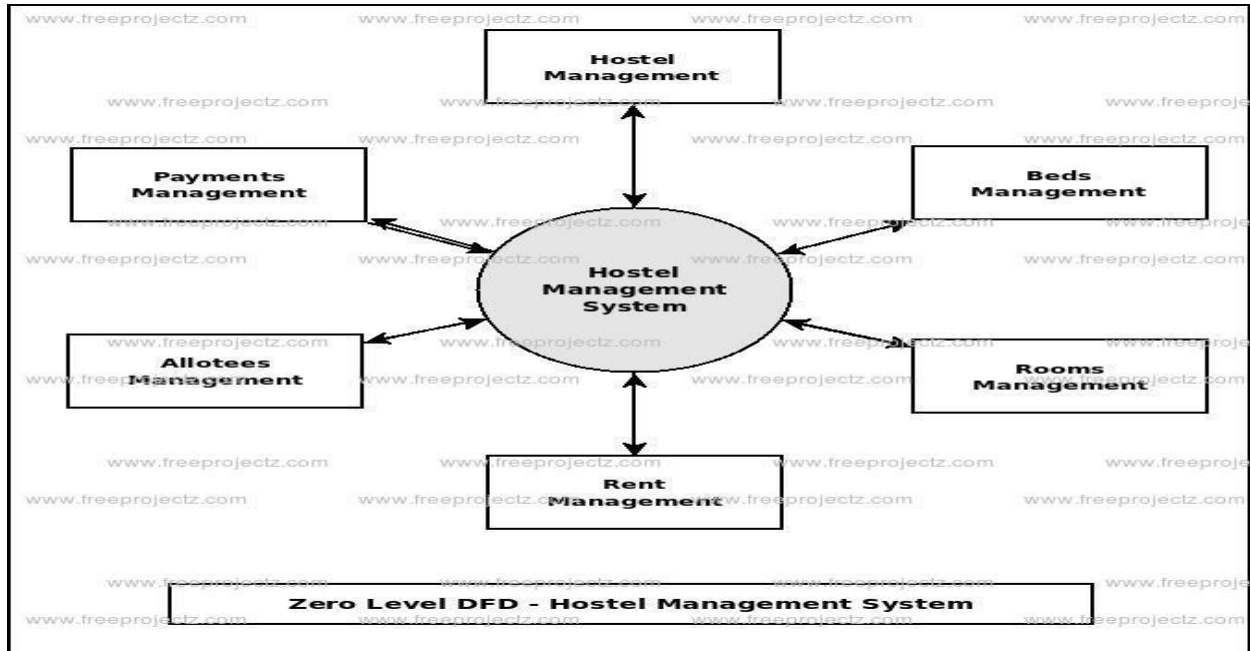
For the past few years the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel and software's are not usually used in this context. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually.

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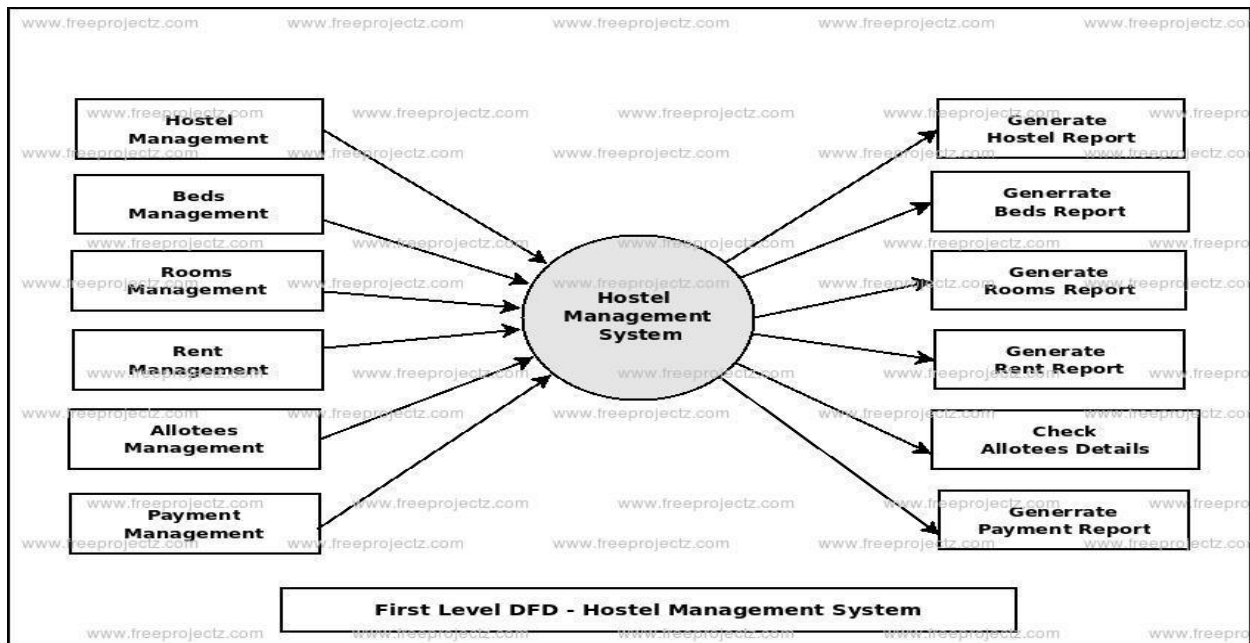
- more human error.
- more strength and strain of manual labour needed.
- Repetition of the same procedures.
- low security.
- Data redundancy.
- difficult to handle.
- difficult to update data.
- record keeping is difficult.
- Backup data can be easily generated.

Data flow Diagram(DFD)

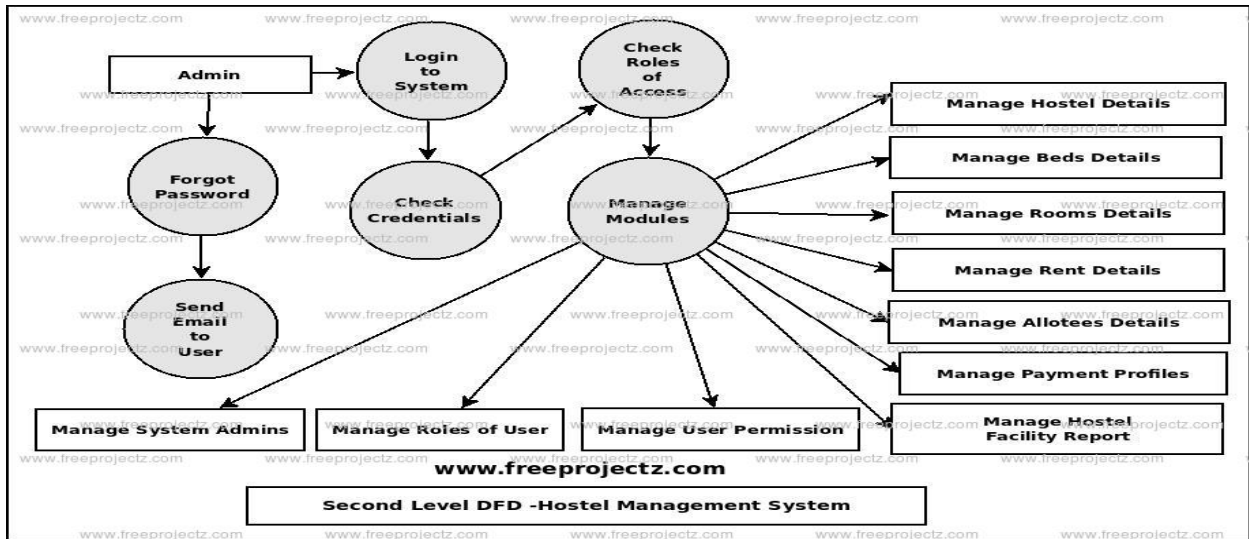
➤ 0 Level DFD



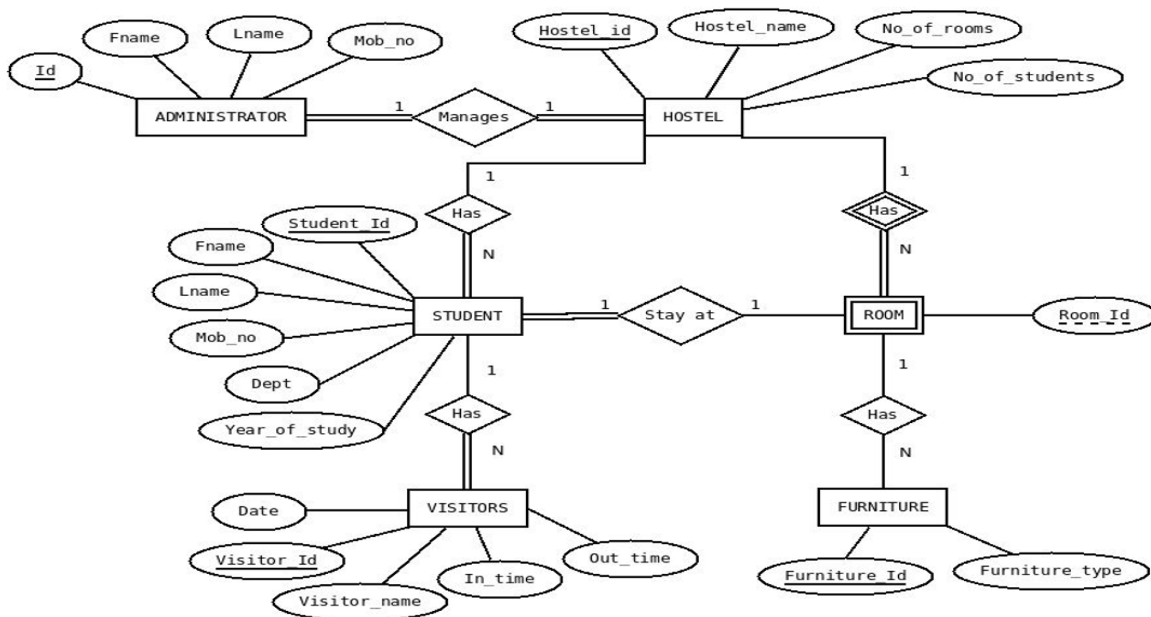
➤ 1 Level DFD



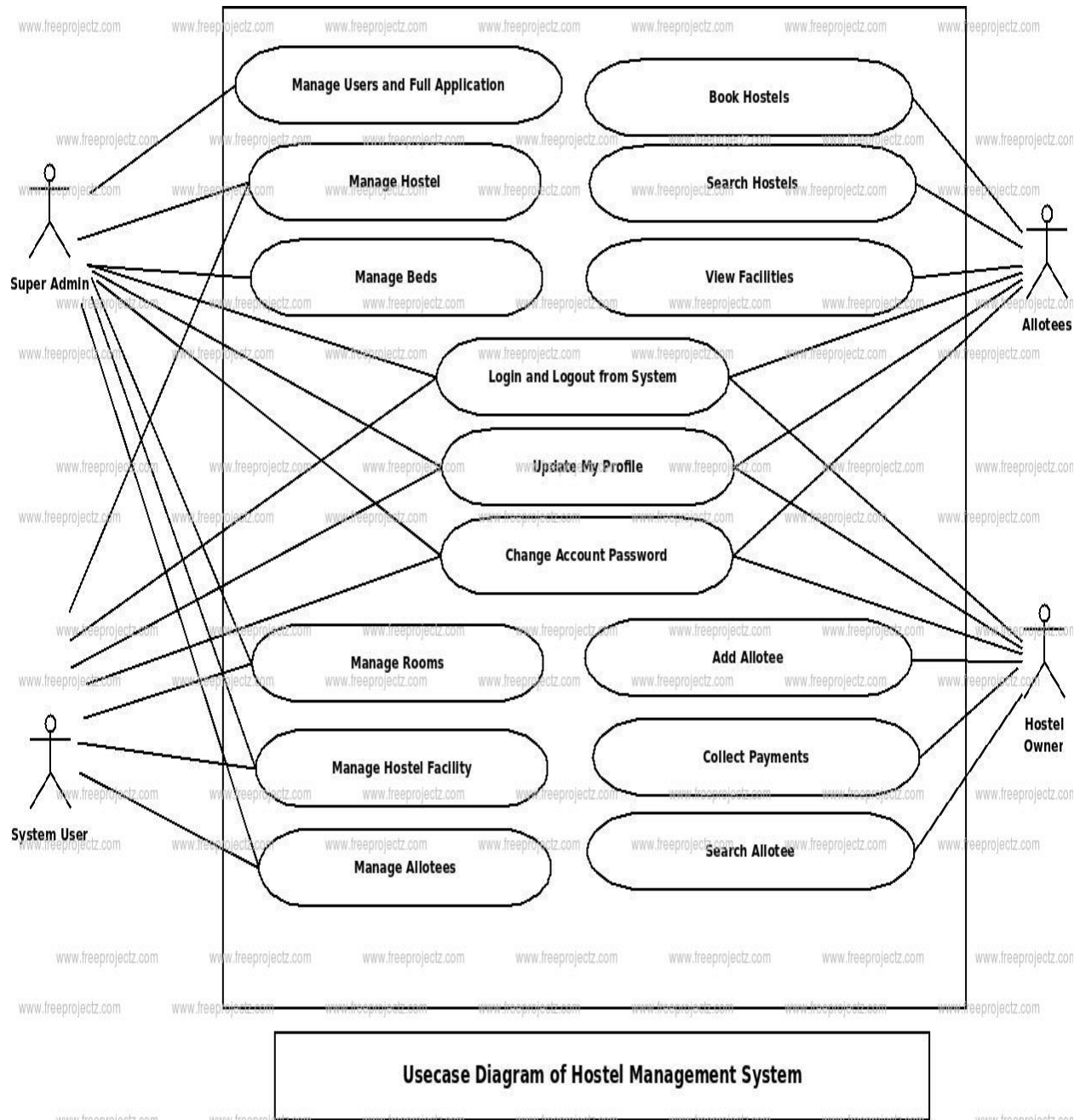
➤ 2 Level DFD



ER-Diagram



Use Case Diagram



System Testing

System testing is the stage of implementation, which is aimed at ensuring that the system works accurately and efficiently before live operation commences. Testing is the process of executing the program with the intent of finding errors and missing operations and also a complete verification to determine whether the objectives are met and the user requirements are satisfied. The ultimate aim is quality assurance.

Tests are carried out and the results are compared with the expected document. In the case of erroneous results, debugging is done. Using detailed testing strategies a test plan is carried out on each module. The various tests performed in “Network Backup System” are unit testing, integration testing and user acceptance testing.

➤ Unit Testing

The software units in a system are modules and routines that are assembled and integrated to perform a specific function. Unit testing focuses first on modules, independently of one another, to locate errors. This enables, to detect errors in coding and logic that are contained within each module. This testing includes entering data and ascertaining if the value matches to the type and size supported by java. The various controls are tested to ensure that each performs its action as required.

➤ Integration Testing

Data can be lost across any interface, one module can have an adverse effect on another, sub functions when combined, may not produce the desired major functions. Integration testing is a systematic testing to discover errors associated within the interface. The objective is to take unit tested modules and build a program structure. All the modules are combined and tested as a whole. Here the Server module and Client module options are integrated and tested. This testing provides the assurance that the application is well integrated functional unit with smooth transition of data.

➤ User Acceptance Testing

User acceptance of a system is the key factor for the success of any system. The system under consideration is tested for user acceptance by constantly keeping in touch with the system users at time of developing and making changes whenever required.

Conclusion

To conclude the description about the project : The project, developed using PHP and MySQL is based on the requirement specification of the user and the analysis of the existing system, with flexibility for future enhancement. The expanded functionality of today's software requires an appropriate approach towards software development.


This hostel management software is designed for people who want to manage various activities in the hostel. For the past few years the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel and software's are not usually used in this context.

This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually. Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.

Web-Ss

localhost/HostelManagement-PHP/admin/dashboard.php

Gmail YouTube Maps YouTube

 **HOSTEL MANAGEMENT**

Hello, admin

Dashboard

Good Morning, admin!

12 Registered Students

9 Total Rooms

6 Booked Rooms

9 Featured Courses

FEATURES

- Register Student
- View Student Acc.
- Book Hostel
- Hostel Students
- Manage Rooms
- Manage Courses

Show 10 entries Search:

#	Student's Email	Last Activity
1	liamoore@mail.com	2022-04-03 21:21:34
2	liamoore@mail.com	2022-04-03 21:18:35
3	nancy@mail.com	2022-04-03 20:30:46

localhost/HostelManagement-PHP/admin/view-students-acc.php

Gmail YouTube Maps YouTube

HOSTEL MANAGEMENT Hello, admin

Dashboard

FEATURES

- Register Student
- View Student Acc.**
- Book Hostel
- Hostel Students
- Manage Rooms
- Manage Courses

Student's Account

Displaying all the registered student's account.

Show 10 entries Search:

#	Reg. No.	Student's Name	Gender	Contact	Email	
1	CA003	Richard J. Summers	Male	1325658800	richards@mail.com	<input type="checkbox"/>
2	CA004	Ross S. Daniels	Male	6958545850	ross@mail.com	<input type="checkbox"/>
3	CA005	Colin B Greenwood	Male	7541112050	colin@gmail.com	<input type="checkbox"/>
4	CA006	Jennifer J. Frye	Female	7895555544	jennifer@mail.com	<input type="checkbox"/>
5	CA007	Bonnie J. Lamar	Female	4580001014	bonnie@mail.com	<input type="checkbox"/>

localhost/HostelManagement-PHP/admin/register-student.php

Gmail YouTube Maps YouTube

HOSTEL MANAGEMENT Hello, admin

Dashboard

FEATURES

- Register Student**
- View Student Acc.
- Book Hostel
- Hostel Students
- Manage Rooms
- Manage Courses

Student Registration Form

Registration Number

First Name

Middle Name

Last Name

Gender

Contact Number

Email ID

Password

Confirm Password