

# **JAVA PROJECT DISCRIPTION**

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**Project Name: Hostel Information Management System**

## **1. Planning**

Hostel Management Information System is software solutions used within hostels, in order to carry out key managerial tasks and oversee operations. In this article, you can learn about what these systems are, how they work, why they are so useful, what their main features are, and how much they cost.

The main aim and objective of Hostel Management Information System is to record student information in hostels using digital system.

- The problem we need to solve, it's handling analogy system where we use papers and hard copies to record information, This system leads to lose of data and it is not accessible easy compared to the digital system.

## **2. Design**

As I have said above, our program it is used to store information about student and hostels.

Our design phase shows the appearance of project and how user can interact with system.

Our project has difference pages such as:

- Login form: we have two division Admin and User

- ✓ Admin login: in our project when admin log into system as admin he/she may go to **the main menu page**,
- ✓ User login: when user log in the system he/she may go to the **Register page** where he/she can **Add** or **cancel** the record or information.
- ✓ User can also create an account when click on **Signup**.

- Admin Form: in this page Admin can perform four functions:
  - Save**: admin can add record to the system.
  - update**: admin can change information of student.
  - delete**: admin can remove record from the system.
  - cancel**: admin can cancel the record.
- **Signup page**: user can create new account
- **Register page**: user can **Save** record to the system and **cancel** the record.
- **User page**: admin can **Add, Delete, Update** room numbers and names, in this page user also can **cancel** the record.

#### **Functional requirements:**

- ❖ USER can login the system and be able to **create account**, **add** record and **cancel** the record and then logout.
- ❖ Admin should be able to login system **adds, delete, update** and **cancel** the student information and hostels information, and then also he can make **attendance** and **report** and then **logout**.

#### **❖ Technical requirement:**

- Security, accessibility, flexibility, maintainability
- ✓ The user interacts with the system by login into the system and create user account.

### **3. Development**

For building our project in side of front end we used **Apache NetBeans** for designing our interface.

While on back end we used **java programming language** for integrating our interface to the server side (local storage).

**There are another tools we used in development of project such as:**

**Tools:** Computer and Network

**Operating system:** window 10,

**Server:** Xampp,

**Databases:** MySQL databases,

**Libraries:** mysql\_Connector, jCalender.

Also we use Java Development Kit(JDK).

### **4. Testing**

Testing help to ensure that the project is free from errors where we use incorrect data in order to check security is working properly.

**In our** system when login system with incorrect username and password you get message say that “**Username and Password Not Match**”.

Testing also it's necessary to ensure the project is meeting to the objective, compatible with devices platform and satisfy end-user need.

Our system doesn't allow duplication of data.

### **5. Deployment**

This final stage of project development where it's involve in installation of project with different platform devices and training customer how it's work.

For installing project there are some tools we need to install in order to run project.

- ✓ Apache NetBeans
- ✓ Java Development Kit(JDK)
- ✓ Xampp Server

### ❖ Conclusion:

In summary I can say that our project called Hostel Information Management System it is designed to record information of student and rooms using digital system. the problem we need to solve when we design our software is, using analogy system when we record information on papers and hard copies.

So, Admin and User both they can login the system everyone have task to perform, Admin can (**Add, Update, delete and Cancel** the information of **students and hostel or rooms**), for Users they can (login **system, create new account** and **add or cancel information related to them**)

**Therefore, we** use different tools and technologies to develop our project like computer hard ware and software, programing language(Java), libraries(mysql\_connector), database (MySQL), operating system (window 10) .....

**If** we need to ensure that project is free from error, we use incorrect data in order to check security is working properly.

Finally, we can install our project in computer and train the user how it works and make maintenance when there is any improvement we need to integrate in our project.

