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HOUSE MANAGEMENT SYSTEM

Software Development II (CSE 2100)

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ABSTRACT

The project titled “House Management System” is a library management software for monitoring and controlling transactions in the library. This project will be developed in Netbeans 8.2 and database management will be handled by MySQL. This software mainly focuses on basic operations in a library as well as some special features like facility of user login and facility of administrative login. New users can open a user account quite easily after filling up a registration form provided with username and password. It also has a facility where the House-owners after logging in their account can see the list of their apartment and the list of the tenants. Owners can see the information of their tenants. Owner will be able to check who paid their rents or who didn't. Owner can announce any notice if necessary. They can check the report box if any renter has any complaint about any situation.

It also has a facility where the tenant can also open a user account easily. That account will be approved by the house owner. After logging in their account, they can see the details of the apartment. They must fill up their information. The tenants will have the options to contact with the owner. In notice box they will be able to see the notice announced by the owner. The main feature is that a renter can pay their rent, electricity bill, gas bill and service charge before the due date.

Overall the key purpose of this project is to provide a friendly environment to the owners as well as the renters to maintain the house the best way possible and help reduce the human efforts. It can help users to manage the transaction or record more effectively and timesaving.

Software Platform:

- The project will be developed using JavaFX
- Netbeans 8.2
- MySQL server

Identification of functional requirements:

Renter Login:

This feature allows users to login to the system. A user can log in to the system by providing username and password. After proper verification of the username and password, valid users will be allowed to enter into the system. A username and password mismatch will not allow someone to enter into the home page and the user will be asked to re-enter his/her username and password. The user can also view his profile and edit his profile information.

- **Owner Login:**

This feature allows an admin to login to the system by providing username and password. After proper verification of the username and password, admins will be allowed to visit the administrative home page. Username and password mismatch will not allow an admin to enter into the system. He can also view the renter's profile.

- **New User Registration:**

This feature allows any member from the institution to create an account for himself. This option will be available at the start of the program. A new member has to fill up a registration form providing his name, Id, department, contact no, username and password. After providing valid information a new user can create an account for himself and later he will be allowed to enter into the system.

☐ **Owner's Section:**

- **Profile:**

All the information about the owner will be in this section. Users will be able to see and edit as well.

- **Pending request:**

The renters need to be approved by the owner to create a new valid account. If any renter registers an account the owner will get a notification in this pending request. And he will be able to accept or deny that account.

- **Apartment list:**

All the flats that are rented will be visible in this section. The owner will be able to see the information of the renters and check if they paid the rent or not. The owner can send any message to the renters if needed.

- **Rent Calculation:**

In this section, it will show the calculation of all rent and due. The owner can know how much money he got and how much is due.

- **Notice:**

The owner can announce any notice if needed. In this notice box he can announce a notice and that will show in the inbox of all renters. If the owner wants to increase the rent, he can announce a notice for that. In this section the owner will be able to see if anyone has reported

about any situation. It will be easy for him to take necessary actions and increase the facilities of the house.

☐ **Renter's Section:**

- **Profile:**

After the renters log in, they can see a profile page where they can see their information. They can see the rules and regulations as well. They can edit that information.

- **Contact Owner:**

In this section, the renters can contact the owner if they have anything to say. If the renters want to leave the house, they can contact the owner through this.

- **Inbox:**

The notice that the owner has announced, will be visible in this section. The renter can not reply or edit in this section.

- **Bill Payment:**

This is the main part of this management system. The renters can pay all the bills in this section. They can pay through any mobile banking like Rocket, bKash etc. They can pay the rent and service charge through this process. They can pay the electricity bill, gas bill as well. This method is easier and timesaving for the user.

- **Report Box:**

If the renter has anything to say he can send his message through this report box. If he has anything to complain about or give some suggestion, he can use the report box.

Having identified the major functional requirements, we assign an identifier to each of them for future reference and verification. Following table shows the list:

Table 01: Identifier and priority for software requirements

#	Requirement	Priority
R1	Renter Login	High
R2	Owner Login	High
R3	New User Registration	High
R4	Profile	High
R5	Pending Request	High
R6	Apartment List	High
R7	Rent Calculation	High
R8	Notice	Low
R9	Contact Owner	High
R10	Inbox	Medium
R11	Bill Payment	High
R12	Report Box	Low