Istanbul Sabahattin Zaim University

Project Proposal of Visual Programming Class

Assignment #1

# Dormitory Management System

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## Abstract

It is essential to run a management system for schools, universities or facilities that provide accommodation service. This project consists of a dormitory management system which can be used in those environments. The main purpose is allocating a resident (will be accepted as *student*) to a room.

In total, there are three buildings whose rooms have different accommodation fees. There must be maximum one personnel in a building. As seniority, the dormitory owner has more authority than a dormitory personnel. And similarly, a dormitory personnel is more authorized than a student. Having authority can be defined as being able to perform more comprehensive functions.

## List of Objects

Comments by Akhtar Jamil

Did you seriously check even what will you do??

* You proposal does not contain any information about which room a person will leave, how many rooms are there in dormitory, how many beds, how many floors, payments? Will students leave free?

Add following items

Attendance (entry and exit from dormitory)

Payments

Rooms

Beds

Reservations

Billings

Reports

Penalties

Salary

In this project, there are basically three objects:

1. Dormitory Owner (why do you need owner in your program?)
2. Dormitory Personnel
3. Student

**Function List of Objects**

1. **Dormitory Owner**

|  |  |
| --- | --- |
| **Function Name** | **Description** |
| Log In | Log into the system as dormitory owner with an already-defined password |
| Add Personnel | Add new personnel to database |
| Search Personnel | Search a personnel from database |
| Assign Building | Place a personnel to a building |
| Pay Personnel | Pay a personnel salary and increase balance |
| Delete Personnel | Delete a personnel from database |
| Search Student | Search a student from database |
| View Payments | View a student’s payments |
| Logout | Log out from the system |

1. **Dormitory Personnel**

|  |  |
| --- | --- |
| **Function Name** | **Description** |
| Log In | Log into the system as personnel with a given password |
| View Self Balance | View own balance paid by the dormitory owner |
| Add Student | Add new student to database |
| Check Room | Check a room if available or not |
| Assign Room | Assign an available room to student |
| Search Student | Search a student from database |
| Update Student Information | Update a student’s information yet already added |
| View Roommate | View roommate/s of a student |
| View Payments | View a student’s payments |
| Delete Student | Delete a student from database |
| Logout | Log out from the system |

### Student

|  |  |
| --- | --- |
| **Function Name** | **Description** |
| Log In | Log into the system as student with a given password |
| Change Self Password | Change own password with a new defined one |
| Create Self Information | Create own information from scratch |
| View Self Information | View own information |
| Update Self Information | Update own information |
| Search Roommate | Search own roommate/s |
| Make Payment | Pay the dormitory fee |
| View Payments | View done payments |
| Log Out | Log out from the system |