Istanbul Sabahattin Zaim University

Project Proposal of Visual Programming Class

Assignment #1 (Revised)

Dormitory Management System

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Introduction

In general terms, the aims of this dormitory management system are to register a resident, enroll to a room, make payments, show billing and end accommodation. For such database functions as adding, storing, using and deleting data; MySQL will be used. For user interface, C# Windows Forms will be used.

In total, there are three buildings whose rooms have different accommodation fees and features. More details are given below:

	Building 1	Building 2	Building 3
Amount of Rooms	20	20	20
Amount of Beds/Room	1	2	3
Payment/Month	1000 ₺	750 ₺	500 ₺

List of Objects

The project mainly consists of following entities.

1) Register
2) Arrival
3) Login
4) Registry Settings
5) Departure
6) Student Balance
7) Payments
8) Billings

Detailed Functions

1. Register

Define Student Number	Enter student number
Define Name Surname	Enter name and surname
Password	Create password
Register	Register if the student number, name, surname and password fields are filled

2. Arrival

Accommodation Duration	Enter the duration (in terms of month) that the room will be allocated to the student
Choose Building	Select one of 3 buildings: Building 1, Building 2, Building 3
Building Availability	Check if one of any rooms in the selected building is full or not
Choose Room	Select one of 20 rooms in the chosen building
Room Availability	Check if the selected room is full or not
Choose Bed	Pick any 1 bed in the chosen room

3. Login

Student Number	Enter student number
Name Surname	Enter name and surname
Select Building	Choose the building that the student resides in
Room Number	Enter the room number that the student accommodates in the related building
Password	Enter the password
Login	Log in if the entered student number, building, room number and password is true

4. Registry Settings

Main Residence Address	Enter the main residence address
Phone Number	Enter the phone number
Update Address	Update the main residence address
Update Phone Number	Update the phone number
Change Password	Change the password
Logout	Log out from the system

5. Departure

Leaving Date	Enter the leaving date of a student from the dormitory
Check Penalty	If the student leaves before the promised time, he/she pays 50% extra for the time spent
Empty Room	Empty the reserved room
Delete Student	Delete a student from the database

6. Student Balance

Bank Account	Enter the details of the bank account which a student will transfer money to the balance
Type Amount	Enter the amount of money to be loaded
Upload Money	Upload money to balance

7. Payments

Calculate Payment	Calculate the payment depending on chosen building, room and duration of accommodation, as well as the penalty if any
View Payments	Display done and remaining payments
Pay Fee	Pay the calculated fee and decrease balance

8. Billings

Search Student	Search student from database by student number
View Information	Display student's information (student number, name and surname, building number, room number, main residence address, phone number)
View Arrival & Departure Dates	Display student's arrival and departure dates
View Payments	Display done and remaining payments