

Project Implementation and Details:

Project : SoSafe Security system

Tools:

Java

Swing

UML

TEAM:

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The project is implemented in 2 modules.

Module 1 consists of building layout, install location for sensors, customer information and bill generation.

Module 2 consists of the control panel, sensor creation and sensor activation, schedule and timer, log generation, system security and simulation of the breakin/fire incident

Assumptions:

Future Scope:

- For future scope we have used sensor factory, so that if new system gets added like senior security, then accordingly new sensors could be added without any changes in current code.

Sensor Installation:

- While installing the sensors, the installation is done subsection wise i.e. if 1 subsection is chosen for installation, all the rooms in that subsection will be having one sensor each.

But, once the sensors are installed, it is upto the user as to which sensors he/she wants to activate.

Sensors can be activated room-wise (e.g. 1,2,3 ...), section-wise(e.g. 1 or 2), type-wise(fire/security) or All.

Schedules and timers:

- There are 3 types of schedules available with the system

AllDays, WeekDay and WeekEnd

e.g.

User chooses start-date 1st Oct and end-date as 30th Oct and start-time as 7am and end-time as 10pm

For AllDays : Sensors will be activated *daily* at 7am and deactivated at 10pm during given period of dates

For WeekDay : Sensors will be operated from *Monday – Friday* only at given start and end time during given period of dates

For WeekEnd : Sensors will be operated on *Weekends* only at given start and end time during given period of dates

New schedule can be added as new strategy.

User Creation:

- When system is initialized, default Admin user is created with id “00” and details are written into a file.

New users can be added using AddUser and Save button on control panel of the system.

Press AddUser

Enter usernamepasscode(e.g. 017896, here username is 01)

Press Save

These user details are also maintained in the same file.

Activated Sensor List on Control panel:

- The lists on control panel for Activated temp and motion sensor list need to be refreshed after any relevant operation is done to come in effect.

Project Files:

- The bills and log files are generated in the default workspace folder.