



Cover page

Project title: Smart Building... Academic Year: 2022

Group Members: Noura Nail Moen Darwazeh Department Name: Computer Engineering

Bara'a Qasem Abdullah Bouzia

Project Type Software or **Hardware** (Choose one)

Supervisor Name: Eng. Emad Natsheh

Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

Abstract Body:

Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**



Project's Abstract:

Modern technology has made great changes in our modern lives. Before technology, human did not know many modern means in their life, but rather relied on simple primitive tools. Then, over the years, these technologies gradually developed until we reached the height of technological progress. So in this project, we want to focus on the smart building with a smart entrance, as when the user reaches the entrance, he must enter a password through the keypad and it appears on the LCD screen. If the password is correct, the door is opened, and if it is wrong, it is not opened, and it also contains a smart elevator that allows entry to the residents of the building , the problem with the non-smart elevator is that payment of subscription is required to enter the elevator, and there are many users who use it, but there is a difference in the amount of elevator demand, so it does not make sense for all users to pay the same amount, so we want to solve that by using a card that the user purchases as it is charged with a certain number of steps. Whenever the user uses the elevator and ascends a floor, the number of steps decreases by one, and when the card becomes empty from steps, it gives a notice to its owner to know that it is empty and need shipping. On the other hand, there is a smart parking that allows residents only to park their cars by using a mobile application and also contains an LCD screen that shows the number of empty places in the parking so that whenever a car enters, the number of empty places decreases, this parking is divided into two parts , one for the residents of the building to park their cars, and another for the guests so that the guest is not allowed to park his car in the resident's place and when the parking is full of cars , the parking door will not open . Another feature that informs if there is a gas leakage occurs without anyone knowing to prevent dangers.