MINI PROJECT

ON

BUILDING MANAGEMENT SYSTEM

DEPARTMENT OF INFORMATION TECHNOLOGY

VASANTDADA PATIL PRATISHATHAN'S COLLEGE OF ENGINEERING AND VISUAL ARTS

MUMBAI UNIVERSITY

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Mini Project Report

ON

BUILDING MANAGEMENT SYSTEM

Submitted in partial fulfilment of the requirements of the requirements for the degree of Bachelor of Engineering in
Information Technology Semester-III

By

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(AY 2022-23)

CERTIFICATE

This is to certify that the project entitled **"BUILDING MANAGEMENT SYSTEM"** is bonafide work of **K.suryanarayan Dora(034), Arvind Sonkar(025), Shani Sharma(027), Rahul Padwal(033)** submitted to University of Mumbai in partial fulfilment of requirement for the award of degree of **"Bachelor of Engineering in Information Technology-Semester-III"**

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Project Report Approval for S.E.

This project report entitled **"BUILDING MANAGEMENT SYSTEM"** by K. SURYANARAYN DORA, ARVIND SONKAR, SHANI SHARMA, RAHUL PADWAL is approved for the degree of **Bachelor of Engineering** in **Information Technology**.

Examiners

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ABSTRACT

In the world of today, a major change in technology can be seen as an advantage, a number of different fields from industrial & communication to household application can be automatically controlled. This paper presents a building management system (BMS) that is system which helps the member of society or building to do basic activities of society like check and pay your bill like water bill, maintenance bill of society at one place and track records of society activities like society events, problem related to society and many more. The main area of this BMS focuses on making basic needs of society members related to socialize activities and management of society records and events done easily.

Keywords: Maintenance, Complaints, Jswing UI.

ACKNOWLEDGEMENT

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CONTENTS

INTRODUCTION

1.1 INTRDUCTION DESCRIPTION

- Building management system manages the data of the citizens and events of society.

- BMS also manages the society fund which will be used in upcoming events.

- In BMS a person will be able to create a account if he/she is the society member and it will help to give the information of family members .

- It helps to pay maintenance bill if he/she has not paid and if paid it will show “PAID”.

- It also shows Water bill and Electricity bill options.

- In simple words, with help of BMS society work can done easily and in a systematic way .

2. LITERATURE REVIEW

2.1 EXISTING SYSTEM

- MY SCOCIETY CLUB

  It provides services like instant maintenance bill generation, smart notification through mobile apps,
  Pay maintenance bills by CC/DC/NB, Alert reminder on outstanding dues, Instant notices and circulars,fully integrated accounting system with automated trial balance.

- SOCIETY N MORE

  It reach out and iteract with society members from anywhere in a secured environment.

  Easy to access member and tenant database from anywhere.

  100% automagtion in billing with autodue reminder and online payment facility.

  Society document can be stored online for east access.

2.2 Limitation of Existing System and research gap.

- **High cost maintenance.**
  1. For maintenance of existing system more man power is required to the system because of that maintenance of existing system become so costly to maintain.
  2. It will burden to average person.

- **Non-availability of important facilities of average person.**

  1. For paying bill like electricity bill, water bill etc. It required external sources.
  2. There is not a facility for complains & suggestion.
  3. For complain of society or building required complicated process.

- **Complicated system.**
  1. The system is very complicated to use for each and every person.
  2. Due to unwanted and unusual option it becomes more complicated to do frequently required things.
  3. And because of that such unwanted things system lags and consume more time.

- **Paid application**

  Existing system charge extra money for their application for maintaining the app.

2.3 Problem statement and Objective

Problem Statement-

1. Lack of coordination between members
2. There is more consumption of time for basic work of society/building.
3. Wastage of man power for maintenance bill and other works of society.
4. To keep the data of members of society becomes complicated and time consuming and requires more man power.
5. Security problem.
6. Monitoring problem.
7. Complications in managing event.

Objective-

Our objective is to overcome all the above problems by creating an Application which will be userfreindly for everyone.

2.4 Scope-

- New features.
    1. In future there are various extra feature can be added according to the future need.
    2. As continuous monitoring of system is happening therefore in future problem of members can be solve for faster.

3.PROPOSED SYSTEM

3.1 Details of Hardware and Software

- Software-

  1.JAVA
  a) Java Swing
  b) J Panel
  c) J Frame
  d) J Button
  e) J Textfill

  2.SQL

  In our project SQL is used for Java Database Connectivity

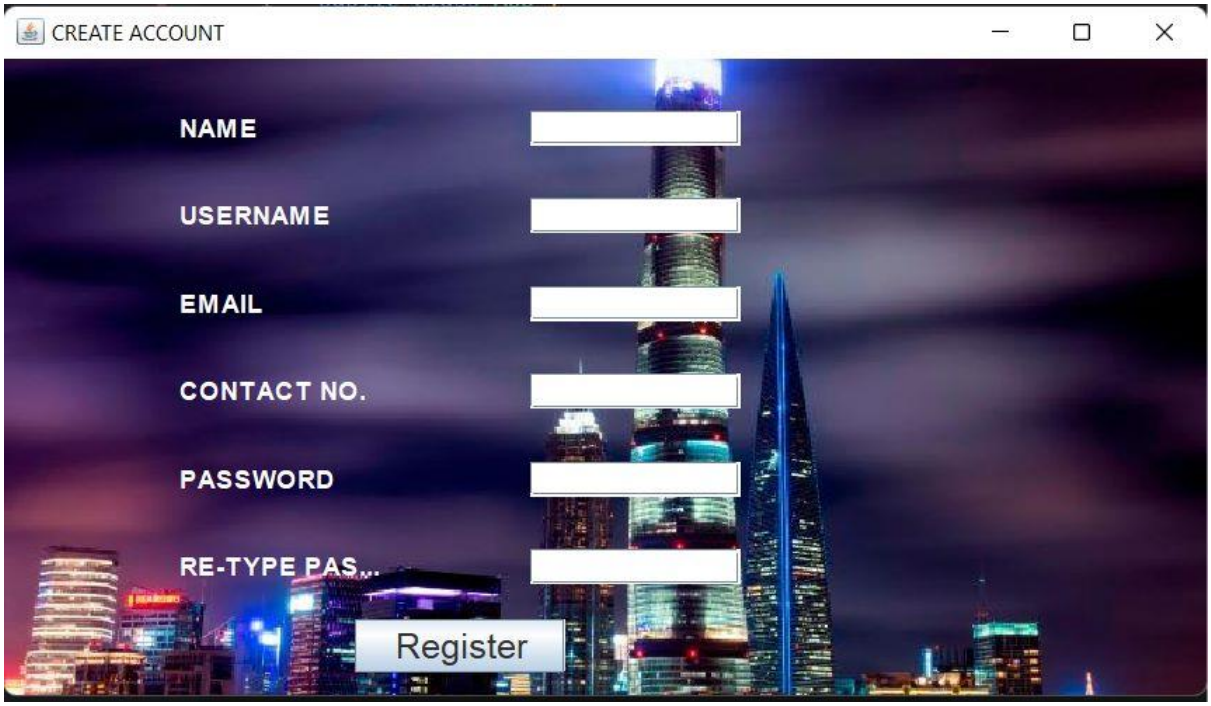
For a good platform we are using **Visual Studio** compiler for our Application/Website

- HARDWARE-
  As our Website/Application is purely based on Software, we are not using any hardware object.

3.2.1 Design Detail

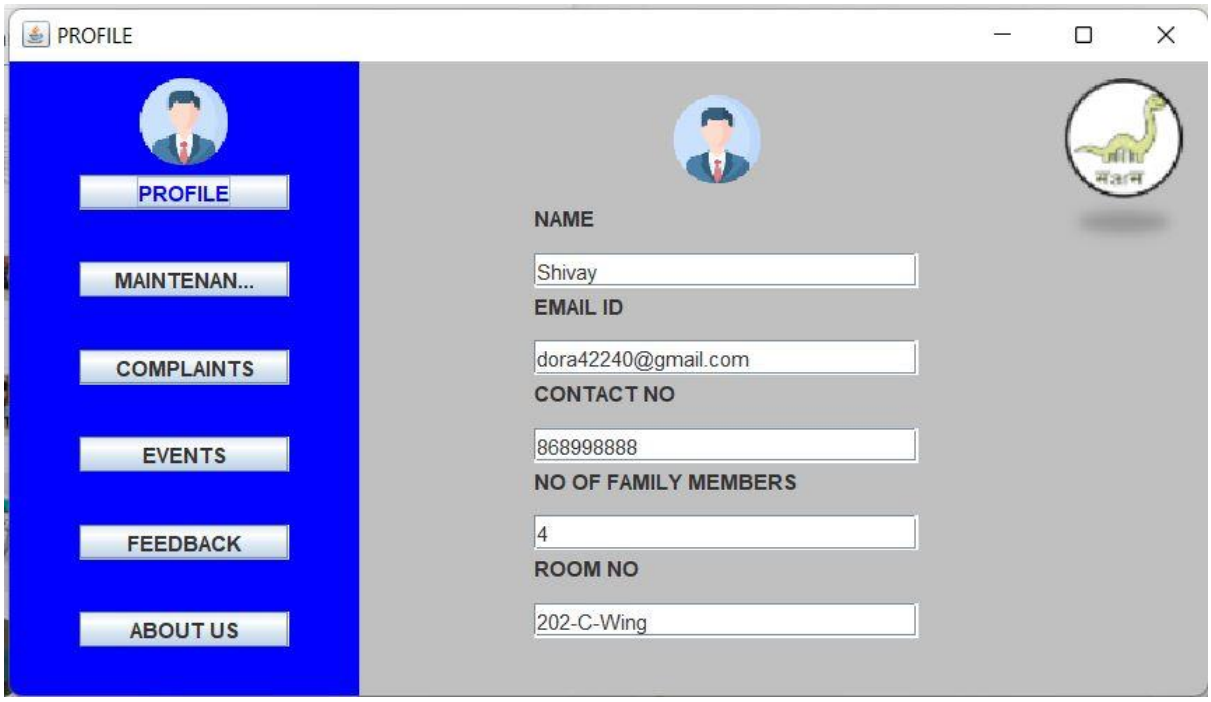
- **Here are some image of our system.**

Registration page:

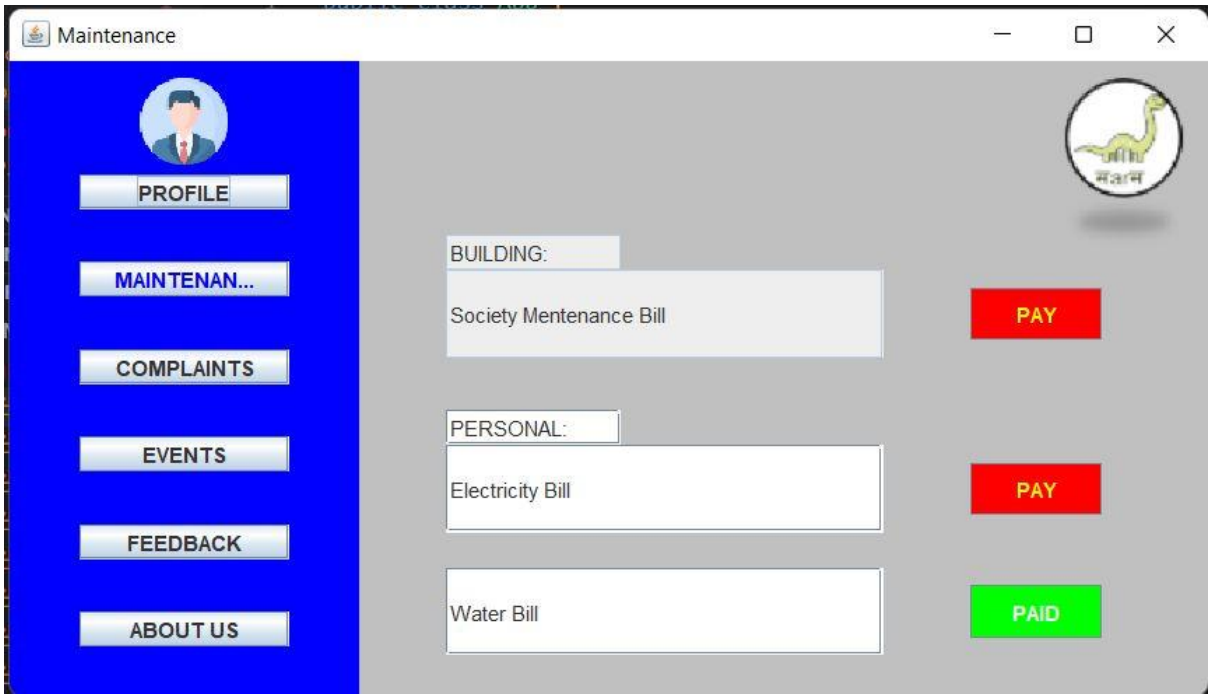


Login page:

Profile page:



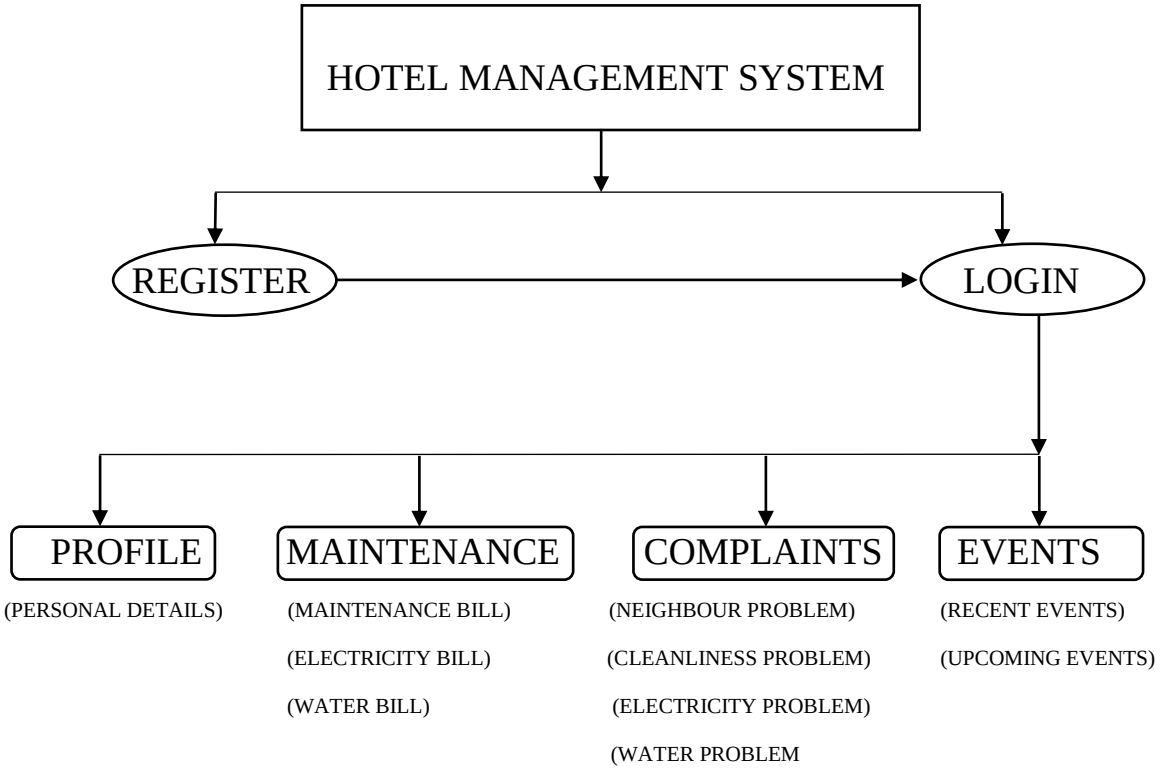
Maintenance page:



3.2.2 System Architecture

Attendance Management System

3.2.3 Flow Chart



3.3 Methodology/Procedure

1.Create an account.

2.Login.

3.Check your profile.

4.Chek your maintenance.

5.Register complain.

6.Do the preparation of upcoming events

7.Give us a feedback for improvements.

3.4 Result And Discussion

RESULT-

- IN this way we have created BUILDING MANAGEMENT SYSTEM.
- We have added some important functions like we have added upcoming events which are going to be celebrated in the society
- We have given access to pay bills like maintenance, electricity and water bills.
- And Secretary will have access of all the details of society members.

4. CONCLUSION

There is always a room for improvements in any apps. Right now, we are just dealing with some operations. There are several management system which serve similar purpose as this project, but these apps were rather difficult to use and provide confusing interfaces. A positive first impression is essential in human relationship as well as in system computer interface. This project hopes to develop a management system with high quality user interface. In future we may be extended to include features.

5.REFERENCES

- **Used these websites for learning Various Java swing implementations.**

- **Java point web.**

https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.javatpoint.com/java-tutorial&ved=2ahUKEwjugfyR5pb7AhUbSmwGHQXjDKgQFnoECBkQAQ&usg=AOvVaw2WyHO0_1Ll6BRrmgTF41wc

- **Geeksforgeeks**

https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.geeksforgeeks.org/introduction-to-java-swing/amp/&ved=2ahUKEwjp1YDA5pb7AhXDSGwGHflEAY8QFnoECAkQAQ&usg=AOvVaw0ClRnRC3vpkdSh27QSqkTH

- **Used these youtube videos for learning various java swing implementations and backgroung image setups and JDBC connections etc.**

- **MUKUL SAINI SKILLS CHANNEL**

Source code:

- **MAIN**

```
public class App {
   public static void main(String[] args) throws Exception {
      Wel w = new Wel();
      //LoginForm1 Log = new  LoginForm1();
      //CreateAccount Cr = new CreateAccount();
      /*BackgroundImageJFrame Bg = new BackgroundImageJFrame();
      Maintenance Maint = new Maintenance();
      Complaint comp = new Complaint();
      Events Even = new Events();
      Profile Pro = new Profile();
      Welcome Wel = new Welcome();
      JDBC Jaa = new JDBC();*/
      //about ab = new about();
   }
}
```

- **PROFILE**

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class Profile extends JFrame{
    public Profile(){
        JFrame frame=new JFrame();

        frame.setSize(700,400);
        frame.setLocation(100,100);
        frame.getContentPane().setBackground(Color.LIGHT_GRAY);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setTitle("PROFILE");
        Container c=frame.getContentPane();
        c.setLayout(null);

        JPanel p1=new JPanel();
        p1.setBounds(0,0,200,400);
        p1.setBackground(Color.BLUE);
        p1.setLayout(null);
        c.add(p1);

        JButton btn1= new JButton("PROFILE");
        btn1.setBounds(40,65,120,20);
        p1.add(btn1);
        btn1.setForeground(Color.BLUE);
```

```
/*btn1.addActionListener(new ActionListener(){
   public void actionPerformed(ActionEvent e){
      Profile Pro = new Profile();
   }
});*/
JButton btn2=new JButton("MAINTENANCE");
btn2.setBounds(40,115,120,20);
p1.add(btn2);
btn2.addActionListener(new ActionListener(){
   public void actionPerformed(ActionEvent e){
      Maintenance Maint = new Maintenance();
      btn2.setForeground(Color.BLUE);
   }
});
JButton btn3=new JButton("COMPLAINTS");
btn3.setBounds(40,165,120,20);
p1.add(btn3);
btn3.addActionListener(new ActionListener(){
   public void actionPerformed(ActionEvent e){
      Complaint comp = new Complaint();
      btn3.setForeground(Color.BLUE);
   }
});
JButton btn4=new JButton("EVENTS");
btn4.setBounds(40,215,120,20);
p1.add(btn4);
btn4.addActionListener(new ActionListener(){
   public void actionPerformed(ActionEvent e){
      Events Even = new Events();
      btn4.setForeground(Color.BLUE);
   }
});
JButton btn5=new JButton("FEEDBACK");
btn5.setBounds(40,265,120,20);
p1.add(btn5);
btn5.addActionListener(new ActionListener(){
   public void actionPerformed(ActionEvent e){
      btn5.setForeground(Color.BLUE);
   }
});
JButton btn6=new JButton("ABOUT US");
btn6.setBounds(40,315,120,20);
p1.add(btn6);
btn6.addActionListener(new ActionListener(){
   public void actionPerformed(ActionEvent e){
      about ab = new about();
      btn6.setForeground(Color.BLUE);
   }
```

```
});

JTextField t1=new JTextField("Shivay");
t1.setBounds(300,110,220,20);
                JTextField t2=new JTextField("dora42240@gmail.com");
t2.setBounds(300,160,220,20);
                        JTextField t3=new JTextField("868998888");
t3.setBounds(300,210,220,20);
                        JTextField t4=new JTextField("4");
t4.setBounds(300,260,220,20);
JTextField t5=new JTextField("202-C-Wing");
t5.setBounds(300,310,220,20);

c.add(t1);
c.add(t2);
c.add(t3);
c.add(t4);
c.add(t5);

JLabel l1=new JLabel("ROOM NO");
JLabel l2=new JLabel("NAME");
                        JLabel l3=new JLabel("EMAIL ID");
                        JLabel l4=new JLabel("CONTACT NO");
JLabel l5=new JLabel("NO OF FAMILY MEMBERS");
l2.setBounds(300,80,200,20);
                        l3.setBounds(300,130,200,20);
                        l4.setBounds(300,180,200,20);
                        l5.setBounds(300,230,200,20);
l1.setBounds(300,280,200,20);
c.add(l1);
c.add(l2);
                        c.add(l3);
                        c.add(l4);
                        c.add(l5);

ImageIcon Img = new ImageIcon("C:\\Users\\Surya\\Desktop\\img\\profile.png");
JLabel profile = new JLabel();
p1.add(profile);
profile.setIcon(Img);
profile.setBounds(75,10,50,50);
frame.setVisible(true);

JLabel profile1 = new JLabel();
frame.add(profile1);
profile1.setIcon(Img);
profile1.setBounds(380,20,50,50);
frame.setVisible(true);
```

```
            ImageIcon Im = new ImageIcon("C:\\Users\\Surya\\Desktop\\img\\logom.png");
            JLabel logo = new JLabel();
            frame.add(logo);
            logo.setIcon(Im);
            logo.setBounds(600,10,75,99);
            frame.setVisible(true);


            frame.setVisible(true);
          }
        }
```

LOGIN:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
class LoginForm1{
   public LoginForm1(){
        JFrame frame=new JFrame();
        frame.setSize(700,400);
        frame.setLocation(100,100);
        frame.getContentPane().setBackground(Color.LIGHT_GRAY);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setTitle("LOGIN FORM");
        Container c=frame.getContentPane();
        c.setLayout(null);


        JButton l1=new JButton("USERNAME");
        JButton l2=new JButton("PASSWORD");
        l1.setBounds(200,100,130,20);
        l2.setBounds(200,150,130,20);
        c.add(l1);
        c.add(l2);
```

```
        JTextField t1=new JTextField();
        t1.setBounds(300,100,120,20);
        c.add(t1);

        JPasswordField p1=new JPasswordField();
        p1.setBounds(300,150,120,20);
        c.add(p1);

        JButton btn=new JButton("Login");
        btn.setBounds(250,200,120,20);
        c.add(btn);
        btn.addActionListener(new ActionListener(){
           public void actionPerformed(ActionEvent e){
              Profile Pro = new Profile();
           }
        });

        ImageIcon Img = new ImageIcon("C:\\Users\\Surya\\Desktop\\img\\LO.jpeg");
        JLabel b1 = new JLabel("LOGIN",Img,JLabel.CENTER);
        b1.setBounds(0, 0, 700, 400);
        b1.setIcon(Img);
        frame.add(b1);

        frame.setVisible(true);
    }
}
```