

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Skills Based Project Report
on
Employee Management System

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Ritik Sarathe** (0901CA211047) has submitted the project report titled **Employee Management System** under the mentorship of **Dr. Anshu Chaturvedi** (Professor), as the skills based mini project in 1st year of Master of Computer Application in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



Dr. Anshu Chaturvedi
(Professor)

Computer Science and Engineering

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DECLARATION

I hereby declare that the work being presented in this project report, for the fulfilment of partial requirement of the skills based mini project in 1st year of Master of Computer Application in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Anshu Chaturvedi**, (Professor), MITS Gwalior.

I declare that I have not submitted the matter embodied in this report anywhere else.



Ritik Sarathe
0901CA211047

1st Year,
Master of Computer Application,
Computer Science and Engineering

ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary project. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Anshu Chaturvedi**, (Professor), Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



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1st Year,
Master of Computer Application,
Computer Science and Engineering

ABSTRACT

Employee Management System is a distributed application, developed to maintain the details of employees working in any organization. It maintains the information about the personal details of their employees, also the details about the payroll system which enable to generate the payslip. The application is actually a suite of applications developed using Java.

It is simple to understand and can be used by anyone who is not even familiar with simple employees system. It is user friendly and just asks the user to follow step by step operations by giving him few options. It is fast and can perform many operations of a company.

This software package has been developed using the powerful coding tools of JAVA at Front End and Microsoft Sql Server at Back End. The software is very user friendly. The package contains different modules like Employee details. This version of the software has multi-user approach. For further enhancement or development of the package, user's feedback will be considered.

CONTENTS

COVER PAGE.....	I
CERTIFICATE.....	II
DECLARATION	III
ACKNOWLEDGEMENT	IV
ABSTRACT.....	V
CONTENTS.....	VI

TITLE	PAGE NO.
1 : Introduction.....	1
2 : Objective.....	2
3 : Coding Screenshots.....	3-6
4 : Form Screenshots & Outputs.....	7-15
5 : Conclusion	16
6 : Bibliography	17

Introduction

Employee Management system is an application that enables users to create and store Employee Records. The application also provides facilities of a payroll system which enables user to generate Pay slips too. This application is helpful to department of the organization which maintains data of employees related to an organization.

Java is a platform independent language. Its created applications can be used on a standalone machine as well as on distributed network. More over applications developed in java can be extended to Internet based applications. Thus, java was chosen as background to design this application.

Objective

In this world of growing technologies everything has been computerized. With large number of work opportunities the Human workforce has increased. Thus there is a need of a system which can handle the data of such a large number of Employees in an organization. This project simplifies the task of maintain records because of its user friendly nature.

Coding Screenshots

```
/*
```

```
AddEmp.java
```

```
*/
```

```
Package employee management;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
public class AddEmp extends javax.swing.JFrame {
    Connection con;
    Statement stmt;
    Prepared Statement stat;
    ResultSets;
    static int eid=0;
    .
    .
    .
    private java.awt.TextField textField8;
    private java.awt.TextField textField9;
    // End of variables declaration
}
```

```

/*
 * Intro.java
 */

package employeemanagement;

public class Intro extends javax.swing.JFrame {

    /** Creates new form Intro */
    public Intro() {
        initComponents();
        textField2.setEchoChar('*');
        this.setVisible(true);
    }

    /** This method is called from within the constructor to
     * initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is
     * always regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        label1 = new java.awt.Label();
        label2 = new java.awt.Label();
        label3 = new java.awt.Label();

```

```

        public void run() {
            new Intro().setVisible(true);
        }
    }
}
/*
* EmpList.java
*/
package employeemanagement;

import java.sql.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;

public class EmpList extends javax.swing.JFrame {
    Connection con;
    Statement stmt;
    PreparedStatement stat;
    ResultSets;

    /** Creates new form EmpList */
    public EmpList() throws ClassNotFoundException, SQLException {
        initComponents();
        this.setVisible(true);
        textArea1.setEditable(false);
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        con=DriverManager.getConnection("jdbc:odbc:Employee");
        stmt=con.createStatement();
        rs=stmt.executeQuery("Select * from emp");
        textArea1.append("Name\tAddress\tPost\tEMPID\n");
    }
}

```

```

while(rs.next())
{
    textArea1.append(rs.getString(1)+"\t");
    textArea1.append(rs.getString(2)+"\t");
    textArea1.append(rs.getString(3)+"\t");
    textArea1.append(Integer.toString(rs.getInt(10))+"\t");
    textArea1.append("\n");
}
}

```

```

/*

```

***Main.java**

* To change this template, choose Tools | Templates

* and open the template in the editor.

```

*/

```

```

package employeemanagement;

```

```

public class Main {

```

```

/**

```

* @param args the command line arguments

```

*/

```

```

public static void main(String[] args) {

```

// TODO code application logic here

```

    Intro intr = new Intro();

```

```

}

```

```

}

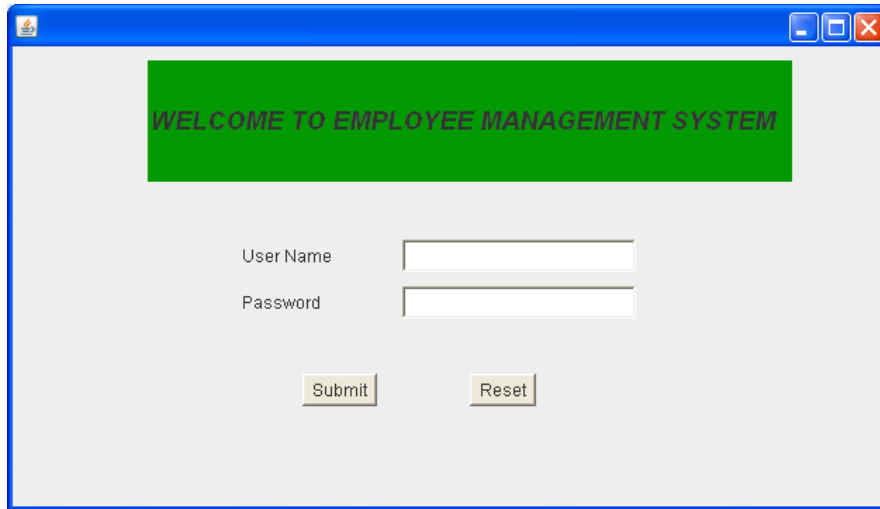
```

Form Screenshots & Output

Package employee Management

Class Summary	
AddEmp	This class provides code for Addition of Employee to the Firm
EmpDetail	Provides code to view Employee Details and also to Delete/Modify Accounts
EmpList	Provides the code to show the List of employees in the Firm
EmpSlip	Provides codes for Salary Slip Generation
Intro	Contains code for Welcome/Login Page of the project
Main	The Base class which has the code to show the First/Login Screen
Menusrn	This class has code which represents the Screen which shows the Buttons for Selection of Different Tasks

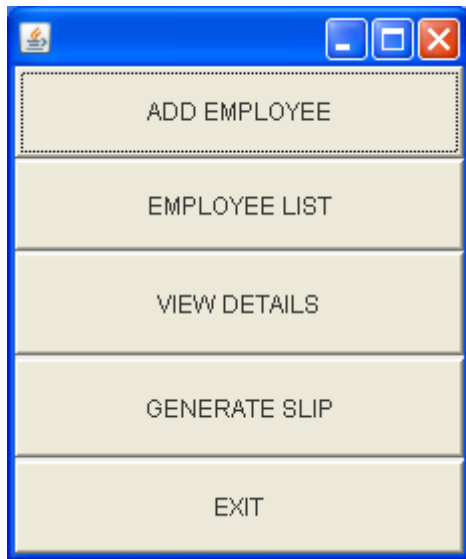
Intro.java



Contains code for username / Password Authentication. When user enters correct login and password it opens Main form otherwise it gives an error message. You can exit by clicking the “X” button on the right top corner of the window.

Press submit button to submit your request and reset to reset the fields.

MenuScrn.java



Using Add employee you can add employee to the firm. Clicking on it opens the add employee window. It calls the AddEmp Class.

Clicking on Employee List shows the list of employees in the firm. It calls the EmpList Class.

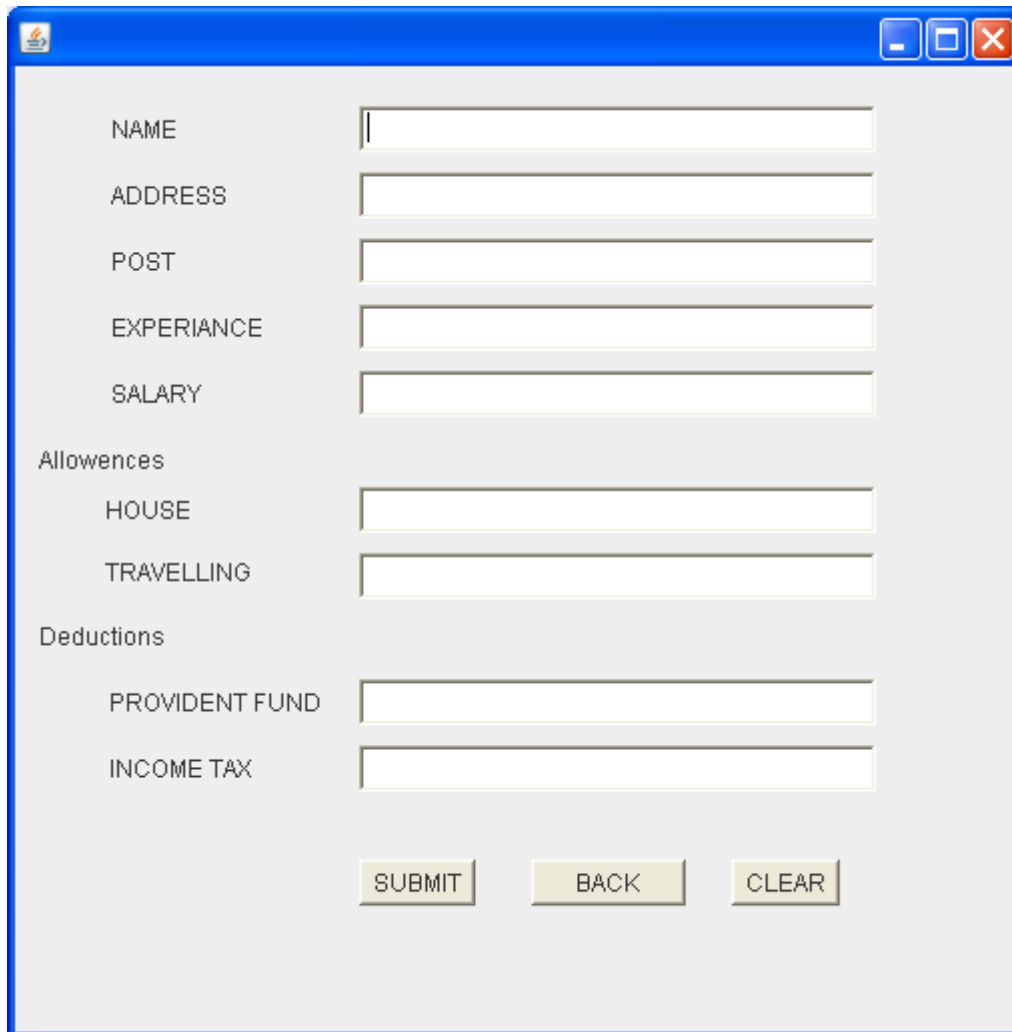
By Clicking on View details you can View/Modify/Delete Records of the employees. It calls EmpDetail.java.

By clicking on generate slip Salary slip is generated. It calls EmpSlip.java

On clicking Exit the Application exits.

Note: You cannot exit using X button in this window.

AddEmp.java



NAME

ADDRESS

POST

EXPERIENCE

SALARY

Allowences

HOUSE

TRAVELLING

Deductions

PROVIDENT FUND

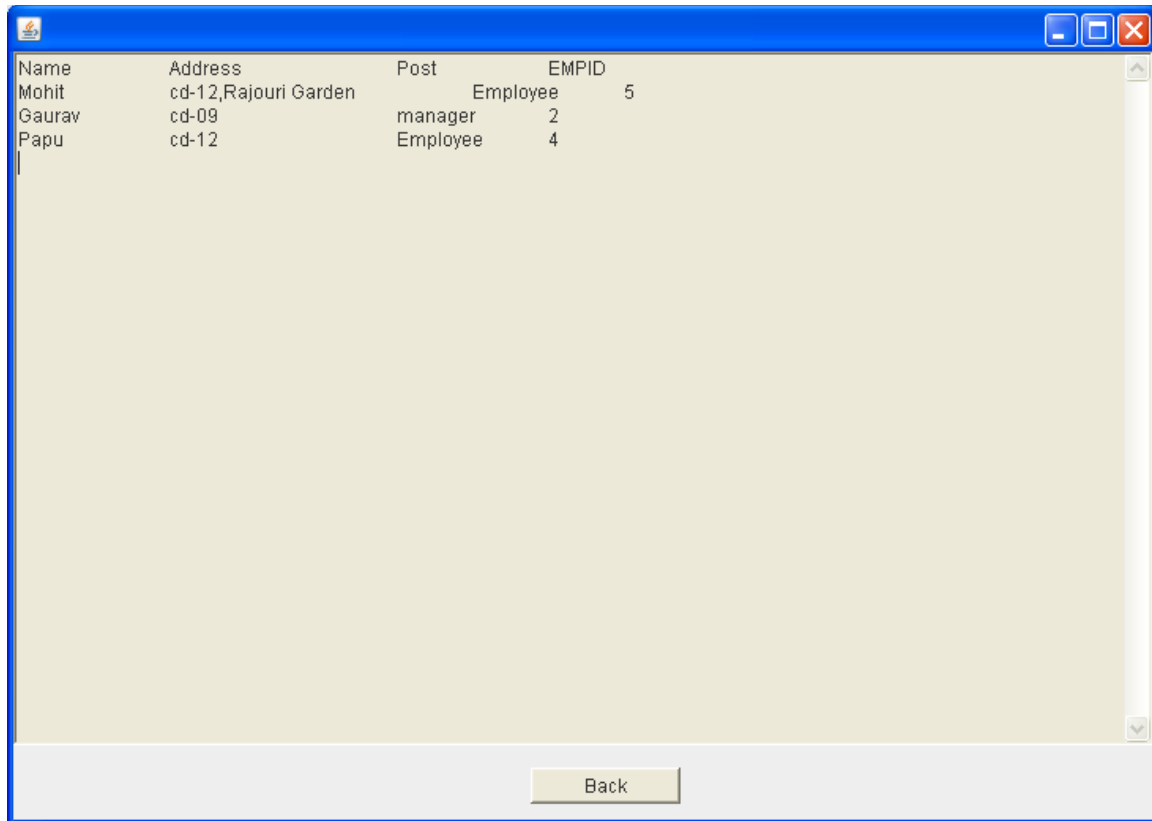
INCOME TAX

Clicking Back takes you back to main menu screen

Clicking Submit submits the records.

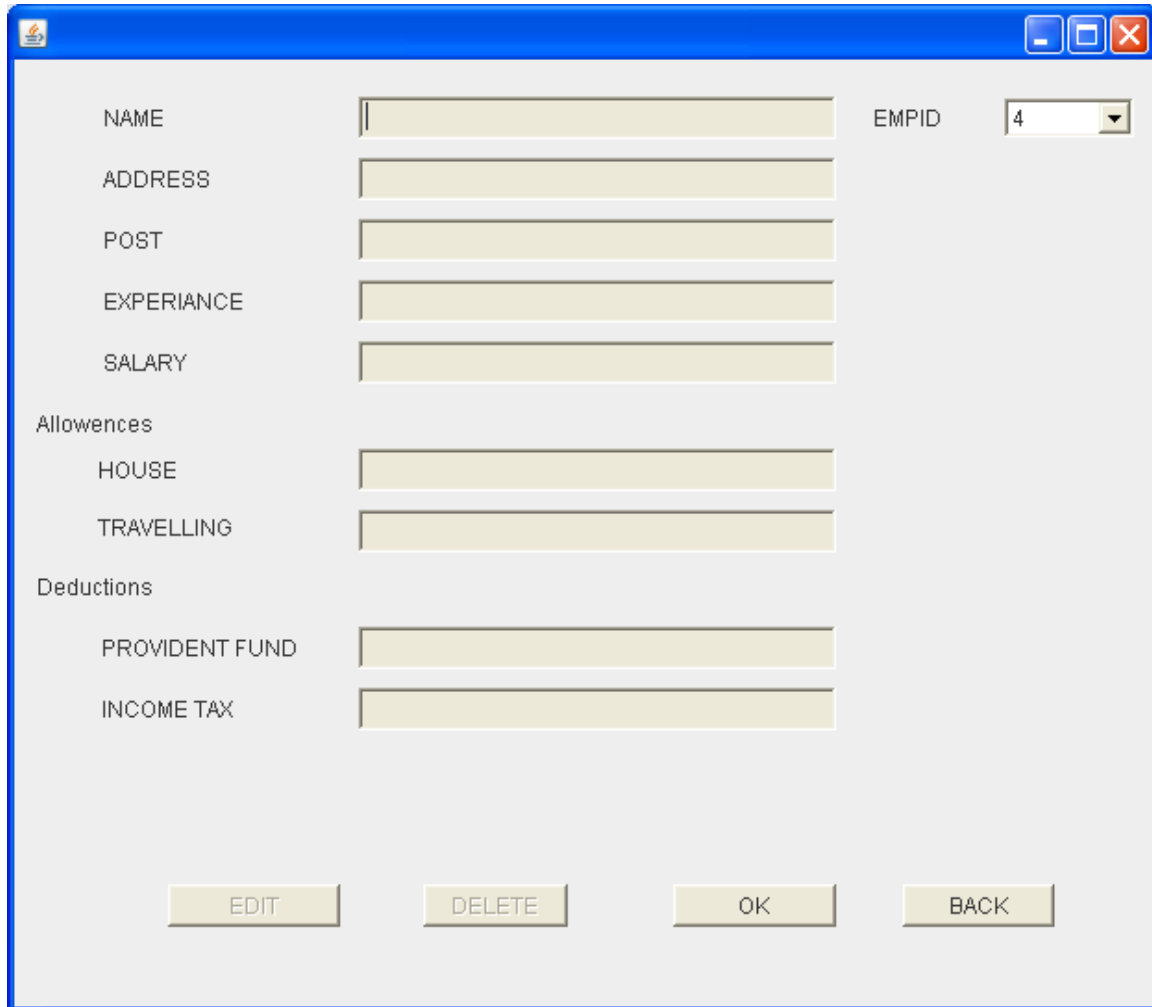
Clicking Clear Clears the Fields

EmpList.java



Shows the list of employees. On clicking Back takes you back to the Main Menu screen.

EmpDetail.java



The screenshot shows a Java Swing window titled "EmpDetail.java". The window has a blue title bar with standard window controls (minimize, maximize, close). The main content area is light gray and contains several text input fields and a dropdown menu. The fields are arranged in a vertical list on the left, with corresponding labels. The labels are: NAME, ADDRESS, POST, EXPERIANCE, SALARY, Allowences, HOUSE, TRAVELLING, Deductions, PROVIDENT FUND, and INCOME TAX. The input fields are yellow with a thin black border. The dropdown menu is located to the right of the input fields, with the label "EMPID" and the value "4" displayed. At the bottom of the window, there are four buttons: EDIT, DELETE, OK, and BACK. The buttons are yellow with a thin black border and are arranged horizontally.

Field Label	Field Type
NAME	Text Input
ADDRESS	Text Input
POST	Text Input
EXPERIANCE	Text Input
SALARY	Text Input
Allowences	Section Header
HOUSE	Text Input
TRAVELLING	Text Input
Deductions	Section Header
PROVIDENT FUND	Text Input
INCOME TAX	Text Input

Buttons: EDIT, DELETE, OK, BACK

To be able to edit records you must press Edit. Before that please select a record and press OK. This will enable the Edit and Delete Buttons. As Shown below.

A screenshot of a software window titled "Employee Data Entry". The window has a blue title bar with standard Windows window controls (minimize, maximize, close). The main area is light gray and contains several text input fields and a dropdown menu. The fields are arranged in a vertical list. At the bottom, there are four buttons: "SAVE", "DELETE", "OK", and "BACK". The "SAVE" button is highlighted with a dashed border. A small number "5" is visible in the bottom left corner of the window.

NAME	Mohit	EMPID	5
ADDRESS	cd-12,Rajouri Garden		
POST	Employee		
EXPERIANCE	4		
SALARY	30000		
Allowences			
HOUSE	2000		
TRAVELLING	2000		
Deductions			
PROVIDENT FUND	4000		
INCOME TAX	4000		

5

Clicking on Edit will change it to save after making changes Please click on save to save the changes.

Clicking on Delete will change it Save Please press save to confirm the deletion. As shown below.

A screenshot of a software window with a blue title bar and standard Windows window controls (minimize, maximize, close). The window contains a form for entering employee data. The fields are organized as follows:

NAME	Gaurav	EMPID	2
ADDRESS	cd-09		
POST	manager		
EXPERIANCE	2		
SALARY	30000		
Allowences			
HOUSE	0		
TRAVELLING	0		
Deductions			
PROVIDENT FUND	0		
INCOME TAX	0		

At the bottom of the form, there are four buttons: EDIT, SAVE, OK, and BACK. The SAVE button is highlighted with a dashed border. Below the buttons, the number '2' is displayed.

Press save to confirm Deletion

Select another EmpId and press OK to select

Press Back to go back

EmpSlip.Java

The screenshot shows a Java application window titled "COMPUTER GENERATED PAYSIP" with a timestamp of "7/13/08 6:22 PM". The window contains a form with the following elements:

- EMP ID: 5 (selected from a dropdown menu)
- Address: Mohit,cd-12,Rajouri Garden
- POSITION: Employee
- Payroll Details Table:

BASIC PAY	30000
+ HOUSE ALLOWANCE	2000
+ TRAVELLING ALLOWANCE	2000
- PROVIDENT FUND	4000
- INCOME TAX	4000
<hr/>	
NET PAY	26000.0

At the bottom of the window, there are three buttons: OK, PRINT, and BACK.

Press OK to generate slip for selected ID

Print Function is Currently Disabled and is left for Future scope

Press Back to Go Back .

Conclusion

Since this project has been designed exclusively as a project, certain complexities that do faced by any real life manual problem like total no. of employee, address redundancy etc. are considered in this project. But enhancement to the project can easily be made without changing the current design and programming structure.

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