

A System Design Project Report on

HOMEMAKER

Submitted in partial fulfillment of the degree of
Bachelor of Computer Applications
VI Semester

Submitted by

1. Megha Kumari

2. Tejasvita Soni

3. Urvashi Harsh

4. Vandana Gehlot

5. Varsha Rajawat

Under the Supervision of

Dr.PALLAVI UPADHYAY

Faculty of Computer Science



Faculty of Computer Science

Lachoo Memorial College of Science & Technology (Autonomous)

Jodhpur

2020



Faculty of Computer Science
Lachoo Memorial College of Science & Technology (Autonomous)

CERTIFICATE

This is to certify that the System Design Project entitled

HOMEMAKER

has been designed and developed by

- 1. Megha Kumari**
- 2. Tejasvita Soni**
- 3. Urvashi Harsh**
- 4. Vandana Gehlot**
- 5. Varsha Rajawat**

in partial fulfillment of the degree of BCA VI Semester Examination 2020, under my
supervision and guidance.

Prof. (Dr.) Priyadarshi Patni
Director
Faculty of Computer Sc

Dr. Pallavi Upadhyay
Assistant professor,
Faculty of Computer Sc

Date:

ACKNOWLEDGEMENT

We would like to express our deepest appreciation to all those who provide us the possibility to complete the project. Foremost, we would like to thank our revered professors for passionately teaching us the java language, and MySQL by forming a strong base and building on well enough to an incontrovertibly high level. The way things were taught was exceptionally well, this helped us to successfully complete such an onerous project.

We would also like to acknowledge the role of various open-source platforms that have succoured us throughout the project. Websites like stackoverflow.com, that acts as a catalyst in expanding the horizons for newbies and pave out of a way to learn from anywhere, deserve appreciable homage.

During this quarantine, it was a bit difficult to communicate and understand each other for us, but thanks and appreciations to each one of our colleagues for their encouragement and support which helped to cope up with problem and maintaining the smooth functioning of the project.

A special gratitude we give to our final year project supervisor Dr. Pallavi Upadhyay whose contribution in stimulating suggestions and encouragement, helped us to coordinate our project. We sincerely thank our Head of Department Dr. Priyadarshi Patni for giving us the chance as well as the support for all the time being throughout the project. Our thanks and appreciations also go to each one of our colleagues for their encouragement and support in developing the project.

Student Names

- 1. Megha Kumari**
- 2. Tejasvita Soni**
- 3. Urvashi Harsh**
- 4. Vandana Gehlot**
- 5. Varsha Rajawat**

ABSTRACT

It can be very tedious and cumbersome to regularly maintain and analyse a written manual of your expense in today's busy life, we are in a great rush to make money that we often don't get enough time and energy to arrange and manage our activities. At the end of the month we realise that it has end up in smoke. As we are unknowingly spending money on little and unwanted things. With Homemaker, we have come up to conceptualise a tool that can help an individual to keep a track of his spending and savings from his earnings. Budgeting serves as a control mechanism where expenses can be compared with and measured against the budget. Homemaker is a useful application for people who are planning to understand their expenditure and saving behaviour and save from it. In Homemaker user can define their own categories for expense type like food, clothing, rent, etc. where they can see all their expenses. User will able to see bar graphs and pie charts of spending. This application also notifies the user about the important dates and events.

The main orientation of our team in developing this software was to create a platform that helps in systematic management of money in daily household. This project has been developed to carry out the processes easily and quickly, which is not possible with the manual system. Along with having an interactive and easy to understand design, it does not require internet connection to run ones the user has successfully registered it. This project is developed using Java language for the front-end along with MySQL at back-end for database connection.

CONTENTS

1. Introduction	6
2. Recognition of Need	7-8
3. Existing System with Limitations	9
4. Proposed System with Advantages	10
5. Process/Working	11-12
6. Feasibility Study	13-14
Technical feasibility	13
Operational feasibility	13
Economic feasibility	14
7. Data Flow Diagram	115-16
DFD level 0	15
DFD level 1	16
8. E-R Diagram and Database Tables	17-19
ER diagram	17-18
Database Tables	18-19
9. Project Design (Screenshots)	20-30
10. Future Enhancement	31
11. Conclusion	32
12. References	33
Appendix	34
Source code	35-341

1. INTRODUCTION

Managing money, sticking to a budget, and even handling investment decisions are easier than ever before. Homemaker is a refined system which allows user to efficiently manage his/her expenses with ease. Instead of keeping a diary or a log of the expenses, this application enables the user to keep the control on the expenses which is time saving and a more efficient way of managing the finances. With the help of this application, the user can manage their expenses on a daily, weekly, monthly and yearly basis. It's built around a fairly simple principal: every penny has a job in your personal budget, be it for investing, for debt repayment, or to cover living expenses. Homemaker is a clean, streamlined application that extremely convenient and easy to use. Again, its totally free so you won't have to sell out any money in fees.

Tracking expenses daily can really help us to save lot of money. Once you start off by tracking our expenses each day, you will be able to get a better idea where you are spending your money, so you keep a control on it in future to avoid unnecessary spending from the budget and achieve your saving goals at last. Now a day's managing a budget is a hectic job up to certain limit. So, software that reduces the work is essential. Also, today's world is a genuine computer world and is getting faster and faster day by day. Thus, considering above necessities, the software for household budget management has become necessary which would be useful in managing the money more efficiently.

Attractive graphs, pie charts to reflect your spending which can actually help to track and get smart in terms of saving your hard money. This application also notifies the user about the important dates and events. The reminding technique used is a pop-up dialog box. The software has been developed using the most powerful and secure back-end MySQL database and Java language for the front-end.

2. RECOGNITION OF NEED

The “Homemaker” application can take a good market as it is usable by anyone who are willing to manage their expenses and aiming to save for the future investments and many more. This is so because the ability to efficiently manage one’s financial is a basic necessity of every person and this is the fundamental goal of this application.

Using Homemaker application, the user can not only manage his/her expenses or income but also keep track of important happenings of his/her life. This application is designed for storing, accepting, accessing the details about the user’s fund.

The vital features and functionalities which makes the application convenient are given below:

- **Add income/budget/savings:** This module deals with adding income, budget, spending and saving. The user has option available for adding categories. The data is saved along with date of entering and it is available to be viewed anytime in future.
- **Modify transactions:** In transactions module, the user gets the option to update and delete his records. He/she has to click the delete button to remove any transaction. Update is also available to update any transactions. The user can view all the saved transactions in a table view which makes it easier to understand and quickly analyse from the records.
- **Calendar view:** In calendar button, the user can filter transactions. User can select month and year, then all transactions will appear that were made on that specified month and year.
- **Spending overview as pie charts/bar graphs:** The user has two option available for graphical representation. Clicks on the stats button on the screen and then bar graphs and pie charts will appear on the screen which depicts your spending. This helps the user to view the summarised version of a large data set in visual form. The graphs clarify the trends of the user’s spending in a better way. He/she can easily make comparisons just by looking at the graphs. Thus, it provides a quick and efficient decision-making ability to the customer.
- **Reminder:** The reminder option notifies the user about the important dates and events. The reminding techniques used is a pop-up dialog box.

- **Balance sheet:** A summary of the user's balance sheet can be viewed which allows him/her to get a quick understanding of the financial stats. The summary can be filtered to be displayed in monthly and yearly basis as per the user's choice.
- **Categories:** The user can add his/her own categories under expense, income and savings. Similarly, the ability to delete a category is also provided. Thus, it allows the user to sort and categorise the transaction as per his/her need.
- **Security:** Its likely for a user to not want to display his/her financial information to any other(unauthorized) person and hence, he/she would like to keep it safe. Thus, this point has been very well taken care of in the application. The user is provided with the ability of putting a password so that no other person could view the data. The user can securely logout and login without having to worry of any unauthorised access. The user can also change his/her password.

It is an easy-to-use application which can prove to be immense significance to its user by making him/her smart in terms of saving his/her hard-earned money.

3. EXISTING SYSTEM WITH LIMITATIONS

- Every earning people are mostly obsessed at the end of the month as they cannot remember where all of their money has gone when they have spent and ultimately have to sustain in little money minimizing their essential needs. There is no such complete solution present easily or we should say free of cost which enables a person to keep a track of its daily expenditure easily and notify them if they are going to have money shortage. To do so a person has to keep a log in a dairy or in a compute, also all the calculations needs to be done by the user which may sometimes results in errors leading to losses. Due to lack of a complete tracking system, there is a constant overload to rely on the daily entry of the expenditure and total estimation till the end of the month.
- We are living in an era where technology has been drastically adapted in our day to day life and almost all our tasks are now tech-dependant on or the other way. The basic drawbacks of other system are that they are non-productive for travellers because saving receipt is a complex process.
- This application helps us to save your daily expenses and also shows graphical representation of your spending.
- It is practically difficult to keep data at one place in manual method where it has to be maintained in a file which is not only tiresome and hectic process but is also not secure from the safety point of view as the file is not guarantee prevented from unauthorised access and is also liable to be lost or stolen.
- Existing systems are time consuming because of paper work and maintain records of every month.

4. PROPOSED SYSTEM WITH ADVANTAGES

Tracking your expenses involves identifying expenditure throughout the month. It's an essential activity that you should ideally do every day throughout the month.

- **User friendly interface:** Through this application you can easily enter your daily expenses and keep a track on it. Tools such as bar graphs and pie charts provide graphical view of your expenses.
- **You can organise your budget:** You can easily organise your budget by adding daily expenses and your spending on different items. At the end you get a brief idea about your savings and spending.
- **Less time consuming:** This application is less time consuming as compare to other manual method. You can easily enter your data and manage your budget.
- **Reminder:** Reminder option is available for user. This option notifies the user about the important dates.
- **Works without Internet:** It works well without any internet connection once the user registers himself on the Homemaker application.

5. WORKING

Complete structure of the program-

The number of modules used in Homemaker application and their function.

The Homemaker is a desktop application that is divided into:

(1) User module:

- User login
- User registration

(2) Money module:

- Add income
- Add expenses
- Add saving

(3) Categories module:

- Income type
- Expense type
- Savings type

(4) Transactions module:

- Update transaction
- Delete transaction

(5) Stats module:

- Pie charts
- Bar graphs

(6) Reminder module:

- Add/remove birthday
- Add/remove anniversary
- Add/remove other events

The working of Homemaker is explained below:

1. **User module:** This module is the base of the application which provides the new users with a facility to get themselves registered into the application as well as allows the existing users to login to their accounts in Homemaker. The respective users need to enter their valid username and password to proceed to other sections

of the application. The application does not let the user login if the provided username or password is incorrect. Also, whenever a new user register himself into the system, an email is sent to his email ID thanking him for choosing the Homemaker application. A user has to provide his Name, a username and password of his choice as well as an email ID while registering to the application. He can also update his username and password once he has registered.

2. **Money module:** This module can be used by the user to add various transaction details of his income, expenditure and savings in different categories that are previously created by him. This window is used to take input from the user in the form of amount of money from different categories of IES. We have three progress bars displayed in this tab which shows the remaining amount from budget, and different amount of money that are kept in savings and expenditure. The remaining balance left with the user after saving and spending is also displayed on the tab.
3. **Categories module:** The user can set various categories of income, expenses and savings initially which can be further utilised in feeding the detailed information about the money transactions. The user gets the option to add new category and delete an existing category.
4. **Transactions module:** This module displays all the transactions taken place be it earning, spending or saving. The various records entered in all the respective categories are enlisted on this page along with their date, category and the amount. The user can update the information about a transaction and he can also delete it. New transactions cannot be entered here, this task is performed in money tab.
5. **Stats module:** This window represents the expenses done by the user in various self-defined categories in a statistical approach. The data is displayed in an interactive graph that makes it easier to understand and analyse. A popup window appears to display the graphs, which can be chosen from two options the pie charts and bar graphs.
6. **Reminder module:** This window provides with a functionality to add reminder for specific dates like birthdays, anniversary and other events. It tells the amount of time left for the event specified to occur. The user can add a date using calendar and also delete any reminder date. A bell icon is displayed on the tab list when an event is expected to happen and by clicking on the bell, the user can read the details about it.

6. FEASIBILITY STUDY

6.1 TECHNICAL FEASIBILITY:

This assessment focuses on the technical resources available. It helps to determine whether the technical team is capable of converting the ideas into working system. It also involves evaluation of the hardware, software and the other technology requirement of the proposed system. Also, it is technical feasible in a way it requires minimum resources.

6.1.1 Hardware Specification:

- Dual-core 1.8 GHz, 4 gig RAM
- Disk space: 124 MB for JRE; 2MB for Java Update
- Processor: Minimum Pentium 2 266 MHz processor

6.1.2 Software Specification:

- **Front end tool-**
NetBeans IDE 8.2: NetBeans is an integrated development environment for java. NetBeans allows applications to be developed from a set of modules software components called modules. The IDE supports application development in various languages, including Java, HTML5, PHP and C++.
- **Back end tool-**
MySQL: MySQL is a domain specific language used in programming and designed for managing data held in a relational database management system, or for stream processing in a relational data stream management system.

6.2 OPERATIONAL FEASIBILITY:

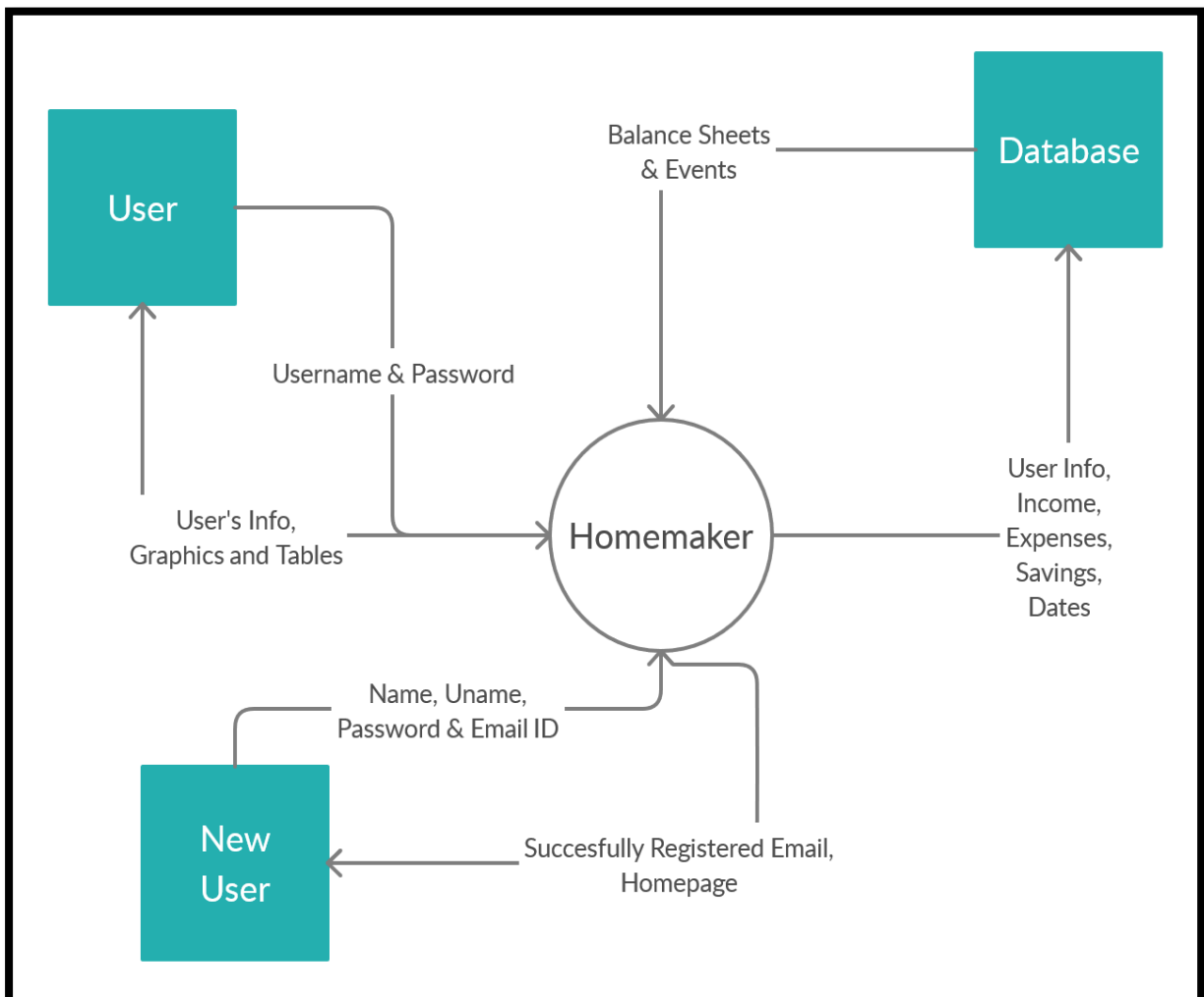
Anyone with basic knowledge of applications can use Homemaker. You just have to enter your username and password and it directly takes you to the homepage. Designing of the software has been kept simple to make it less complex for the user to understand its functionalities system.

6.3 ECONOMIC FEASIBILITY:

It deals with cost/benefit analysis. A number of intangible benefits like user friendliness, robustness and security were pointed out. The cost that will be incurred upon the implementation of this project would be quite nominal. Effort and time of every team member is the cost involved in this project. also, the user doesn't need to pay the single penny to use this application. And hence, Homemaker is economically feasible.

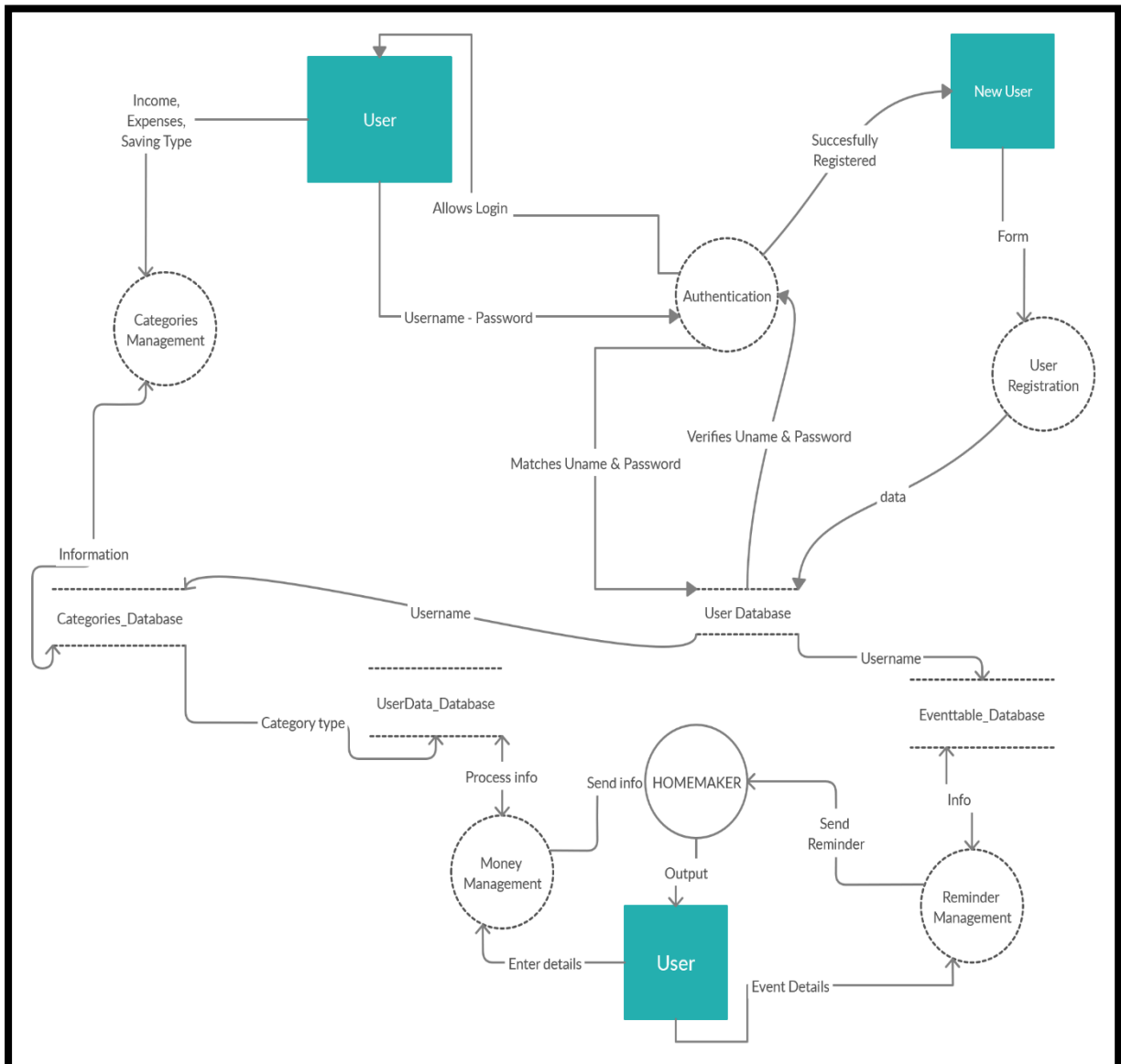
7. DATA FLOW DIAGRAMS

***DFD (0 level): -**



The above diagram shows the dfd level-0 where user successfully registered his/her information and adds money to the tracking system. The tracking system update it to the database then data base will retrieve it to tracking system. After retrieving the system confirms data to the user. The admin checks system and maintain the system.

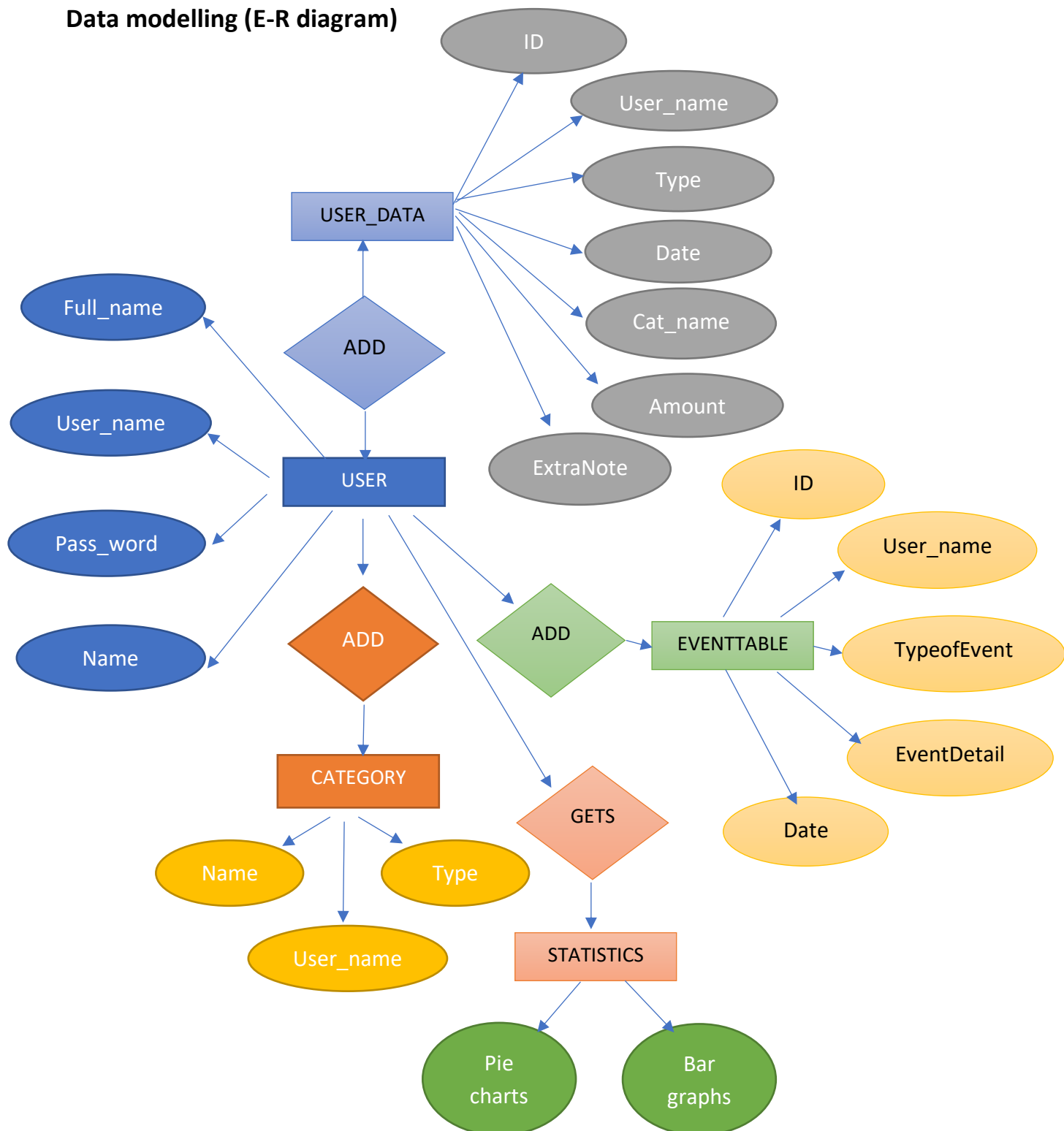
***DFD (1st level): -**



The above diagram is for dfd level 1 where we can track data through the processes it is involving. The login account checks the authentication of the user records. The user adds their daily expenses which is enlisted on the page along with their date, category and the amount. And further displayed in an interactive graph that makes it easier to understand and analysis. Reminder window provides functionality to add reminder for specific dates like birthdays, anniversary and other events.

8. E-R DIAGRAM AND DATABASE TABLES

Data modelling (E-R diagram)



The above diagram explains the relationship between the databases where rectangle represents entity, oval represents attributes and diamond represents relation. There are four entities with their respective attributes.

Database tables

1. User table:

<i>Field</i>	<i>Type</i>	<i>Null</i>	<i>Key</i>	<i>Default</i>	<i>Extra</i>
Full_Name	varchar(15)	YES		NULL	
User_name	varchar(15)	YES		NULL	
Pass_word	varchar(15)	YES		NULL	
email	varchar(50)	YES		NULL	

2. user_data table:

Field	Type	Null	Key	Default	Extra
ID	int(11)	NO	PRI	NULL	auto_increment
User_Name	varchar(25)	YES		NULL	
Type	varchar(5)	YES		NULL	
Date	date	YES		NULL	
Cat_Name	varchar(25)	YES		NULL	
Amount	double	YES		NULL	
ExtraNotes	varchar(200)	YES		NULL	

3. categories table:

Field	Type	Null	Key	Default	Extra
Name	varchar(30)	YES		NULL	
Type	varchar(20)	YES		NULL	
User_Name	varchar(25)	YES		NULL	

4. eventtable:

Field	Type	Null	Key	Default	Extra
ID	int(11)	NO	PRI	NULL	auto_increment
User_Name	varchar(25)	YES		NULL	
TypesOfEvent	varchar(5)	YES		NULL	
EventDetail	varchar(50)	YES		NULL	
Date	date	YES		NULL	

9. PROJECT DESIGN (screenshots)

System design is the process of defining the architecture, modules, interfaces, and data for a system to satisfy specified requirement. System design could be seen as the application of systems theory to product development.

MODULES DESCRIPTION:

The modularization consists of well-defined manageable units with well-defined interfaces among the units.

Desirable property of modular system includes:

- a) each module is a well-defined sub-system.
- b) single, well-defined purpose of each module.
- c) modules can use other modules.
- d) modules should be easier to use than to build.

The project can be decomposed in following modules:

- i. **Register module:** This module is responsible for registering a new user to the web application and do the proceedings.
- ii. **login module:** This module is responsible for a registered user to login to the web application and do the proceedings.
- iii. **Money module:** In this module the user can feed his detailed data about his expenses, budget and saving on the basis of different categories that has been defined earlier in the categories window. The progress bar provides an interactive idea about the funds available to the user and the amount of money he has saved and used.
- iv. **Categories module:** This module is responsible for various options you can add in income, savings and expense. In the app user have option to add category of his/her choice.
- v. **Transaction module:** This module is responsible to update and delete any transaction.
- vi. **Stats module:** This module is responsible for showing your expenses in graphical manner such as in pie charts and bar graphs.
- vii. **Reminder module:** This module is responsible for adding important dates of certain events.

Screenshots:

1. Register and login module:-

I. Register-

This screenshot shows register picture where you can enter you details and save it. After this you just have enter username and password to open your application. You can also change your username and password.

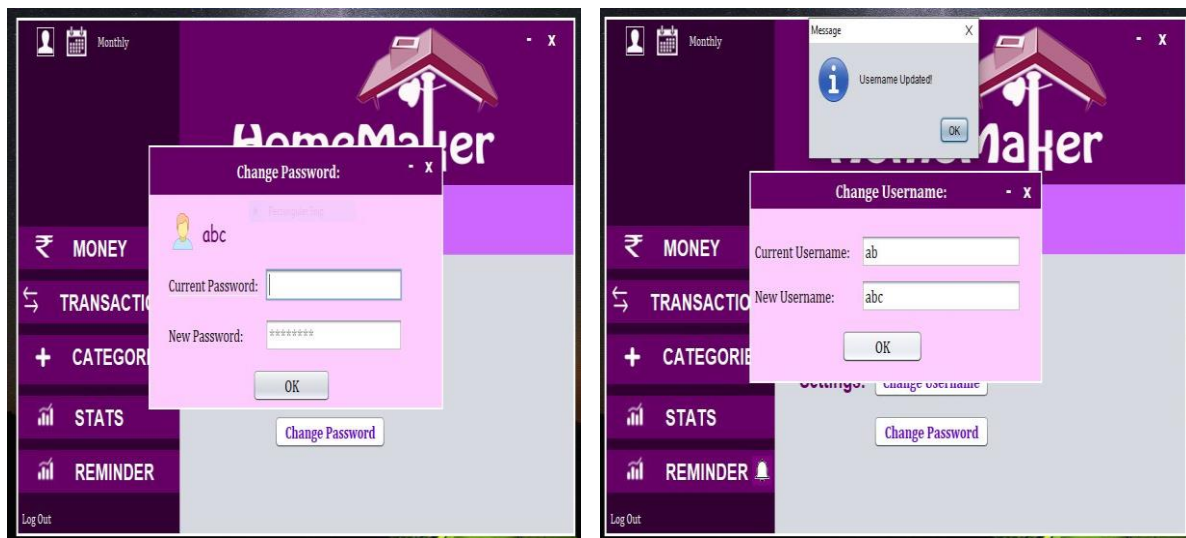
The registration process consists of three steps shown in the screenshots:

- Step 1:** The registration form is empty. Fields include Full Name, Username, Password, Confirm Password, and E-mail. A 'Register' button is at the bottom.
- Step 2:** The form is filled with 'Abc' for Full Name, 'ab' for Username, and 'abc@gmail.com' for E-mail. Password fields are masked with asterisks. The 'Register' button is still visible.
- Step 3:** A confirmation message 'Account has been created' is displayed over the form, indicating successful registration.

*You can also change username and password.

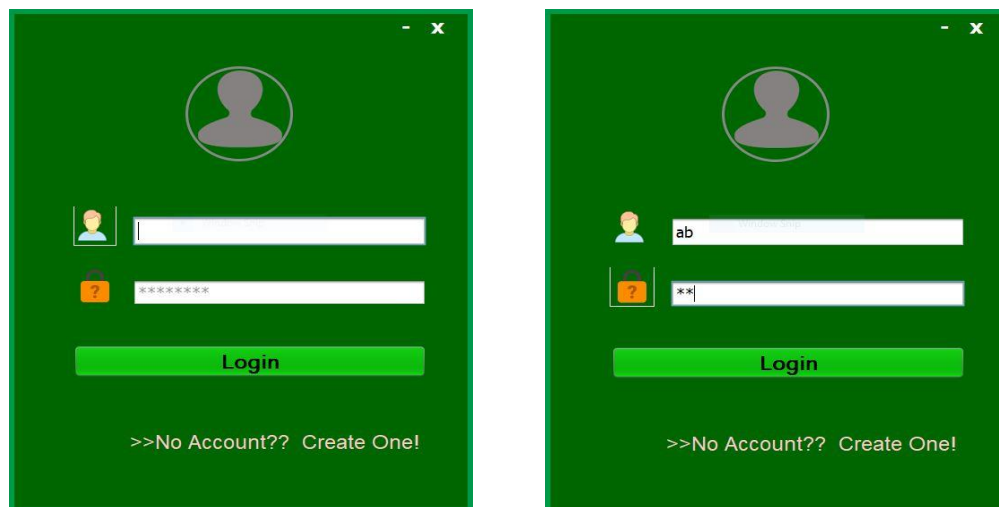
The settings screen allows users to modify their account information:

- Settings Menu:** Displays the user's name (Abc) and email (abc@gmail.com). It includes buttons for 'Change Username' and 'Change Password'.
- Change Username Dialog:** A pop-up window where users can enter their 'Current Username' and a 'New Username' to update their profile.

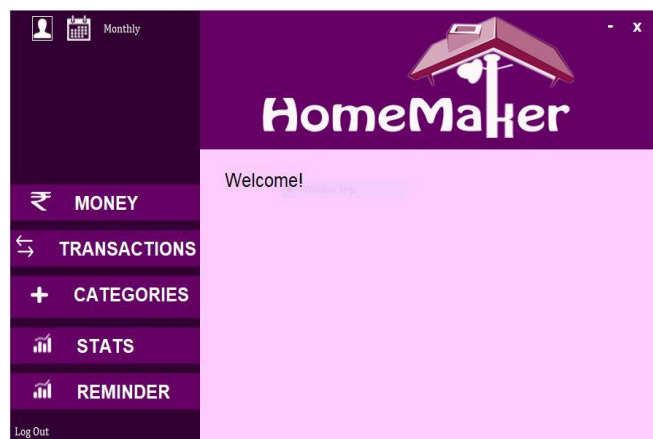


II. Login-

In login module you have to enter your valid username and password. If you enter wrong username or password the application will not proceed further.

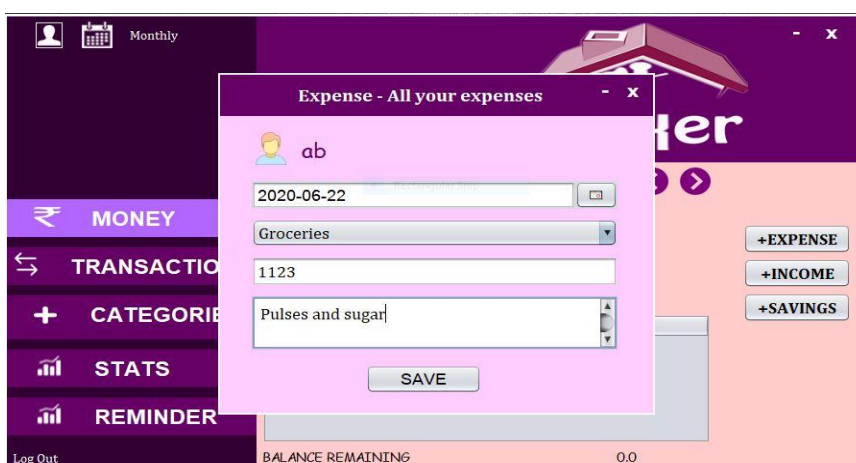
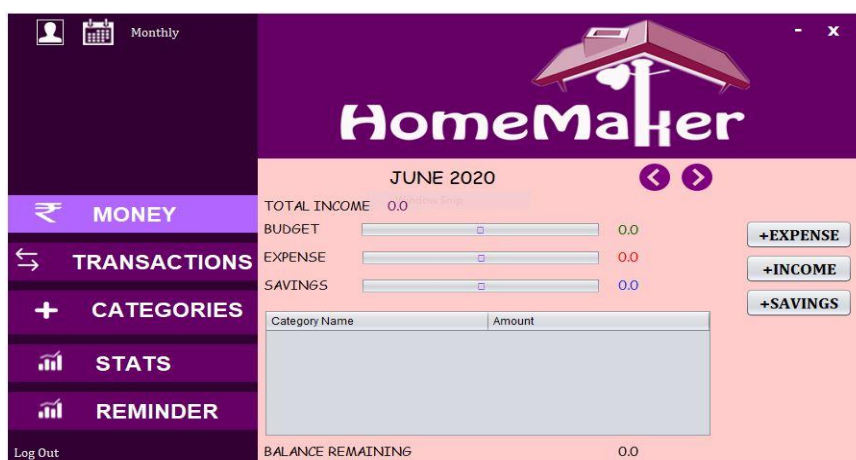


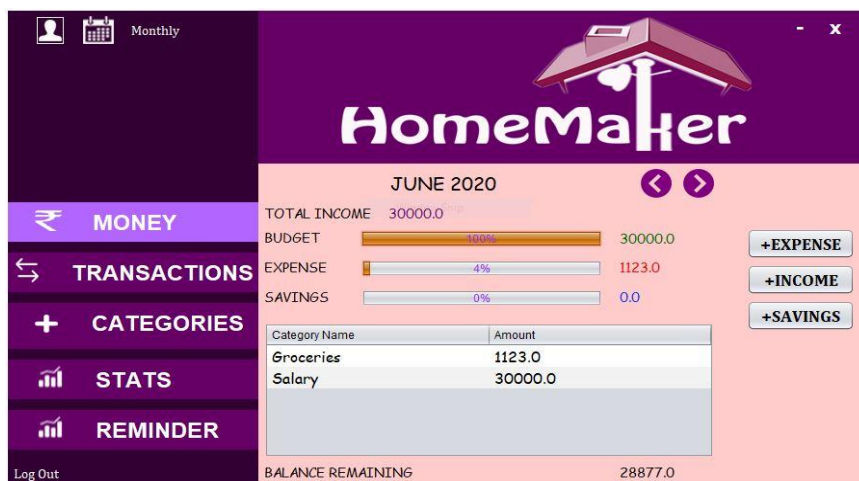
*Once you finish with your login details, homepage screen will be displayed.



2. Money module: -

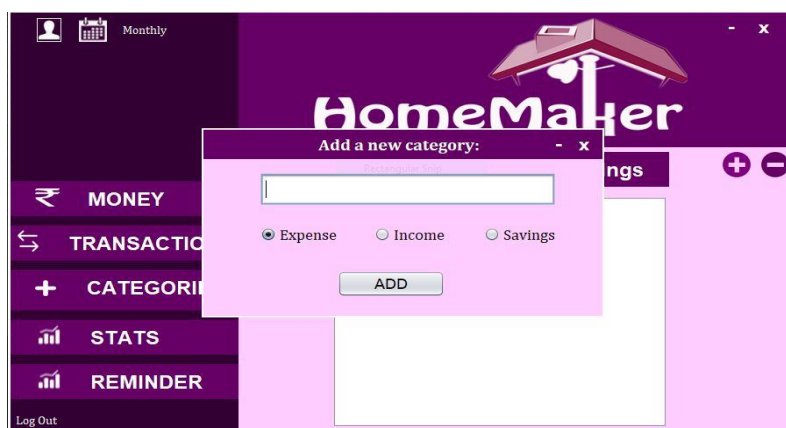
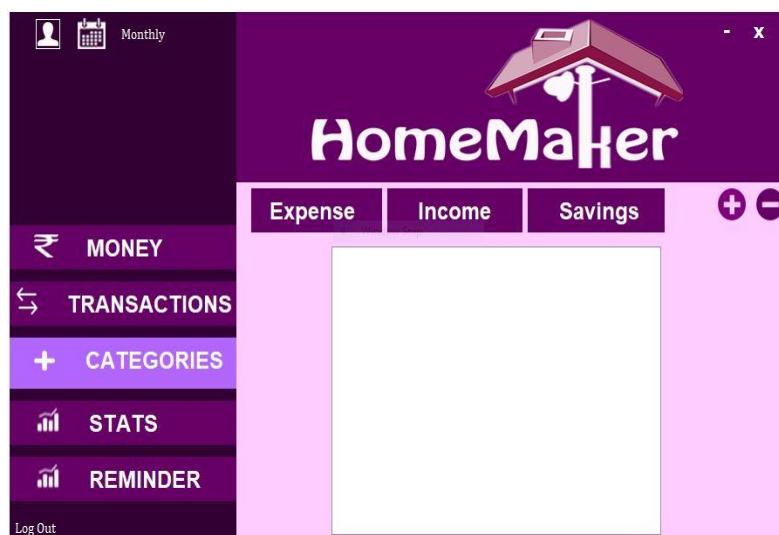
In this module the user can feed his detailed data about his expenses, budget and saving on the basis of different categories that has been defined earlier in the categories window. The progress bar provides an interactive idea about the funds available to the user and the amount of money he has saved and used.

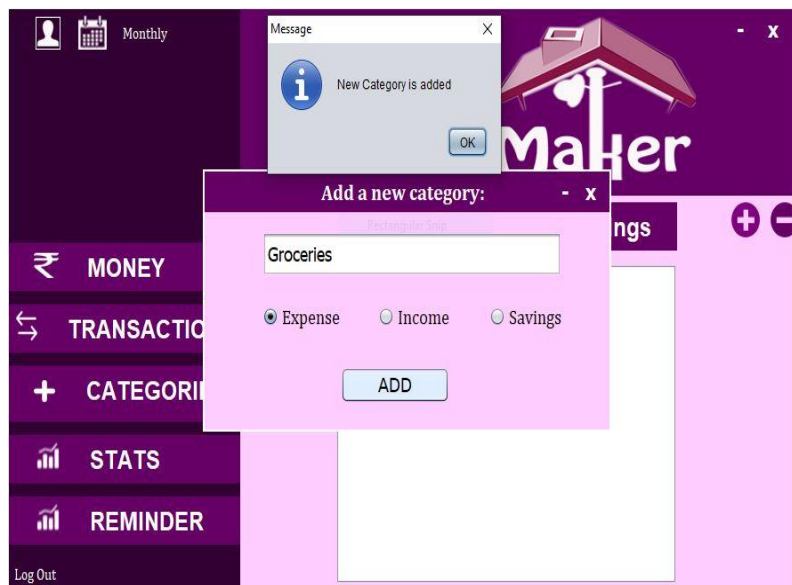




3. Category module: -

In this module you can add different categories in expense, savings and income.





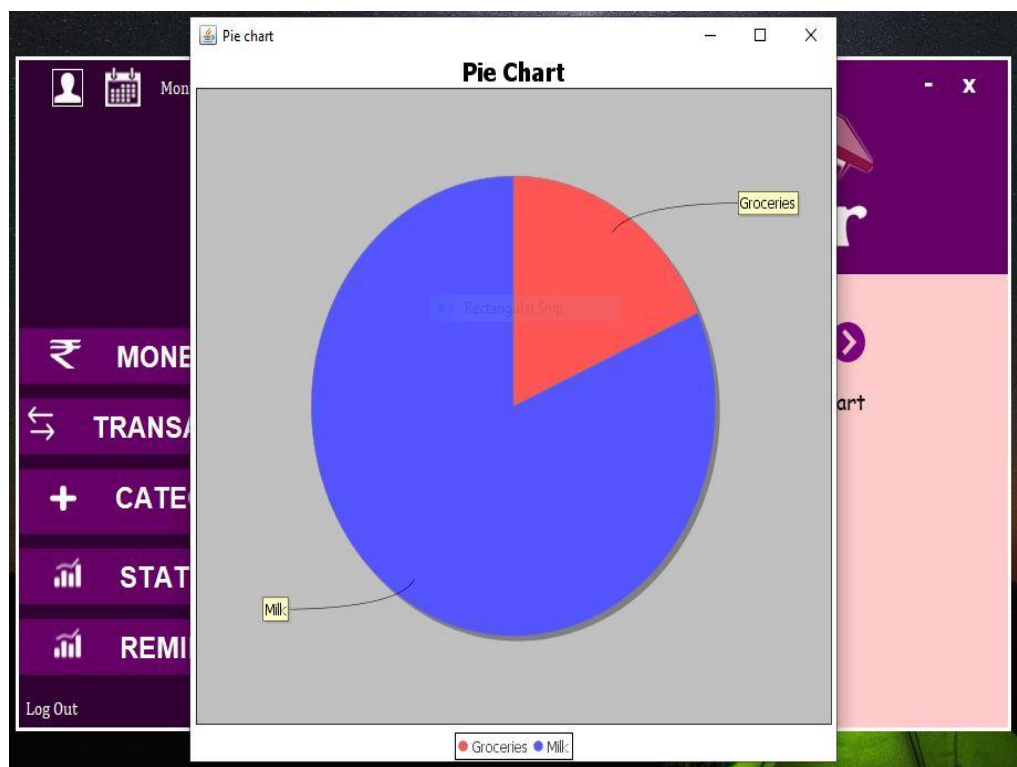
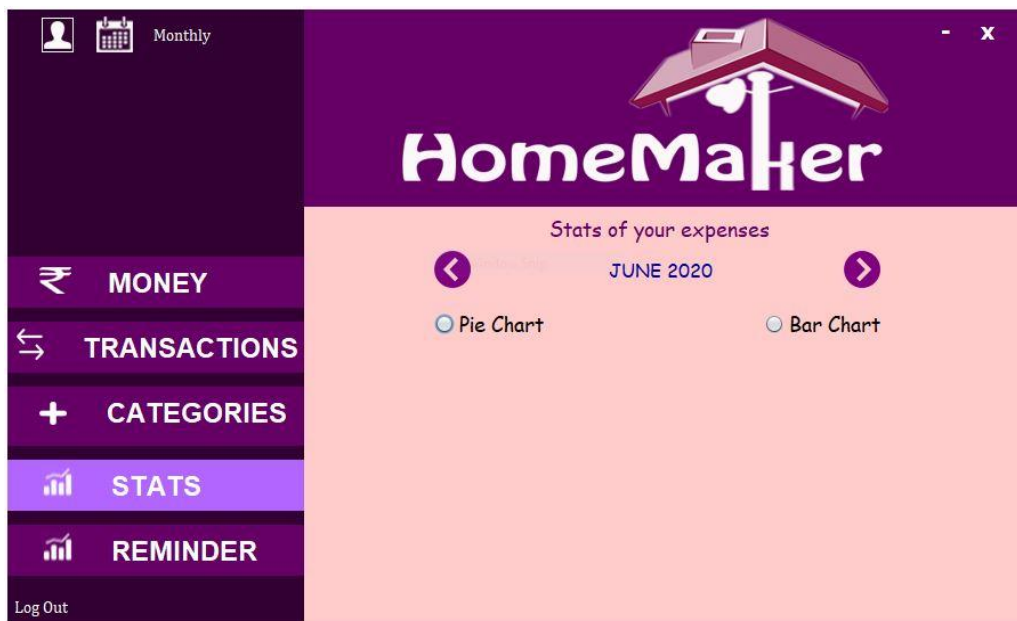
4. Transaction module: -

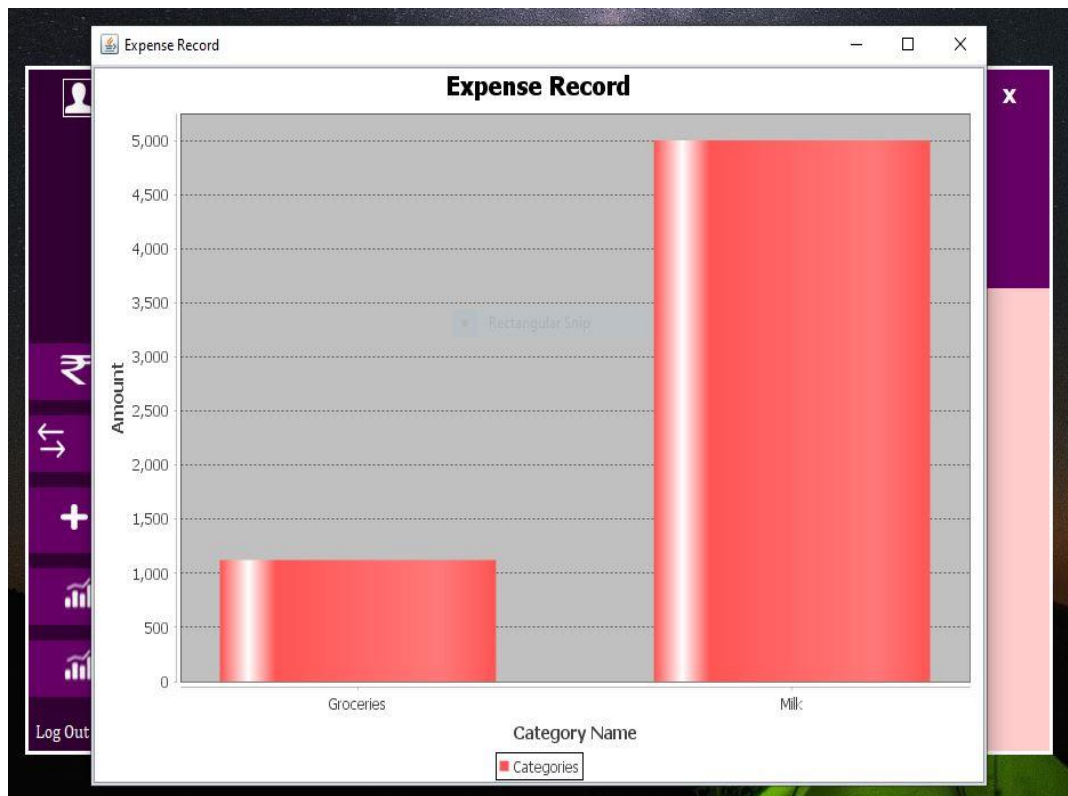
This module is responsible to update and delete any transaction.



5. Stats module: -

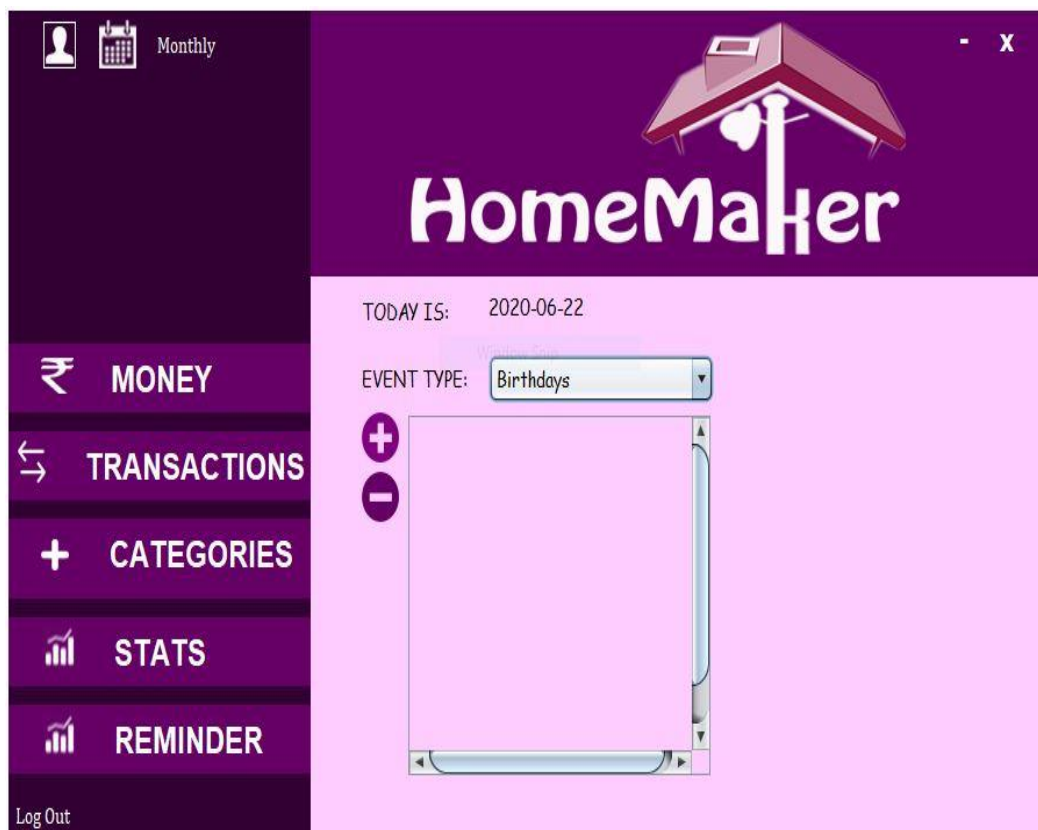
This module is responsible for showing graphical representation of your expenses in pie charts and bar graphs.

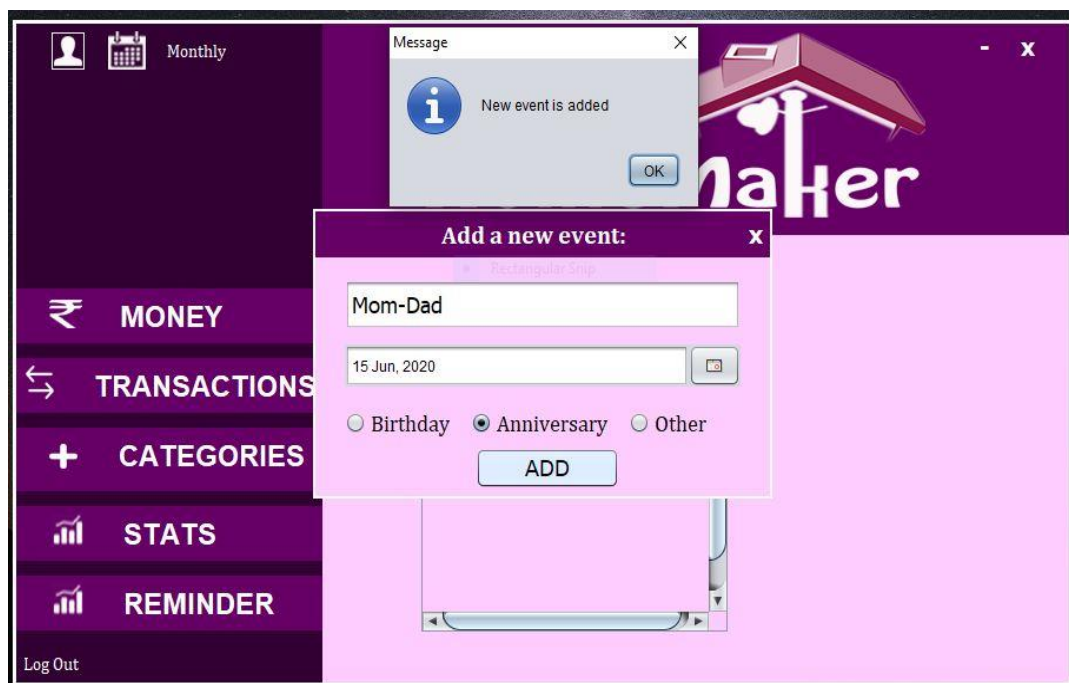
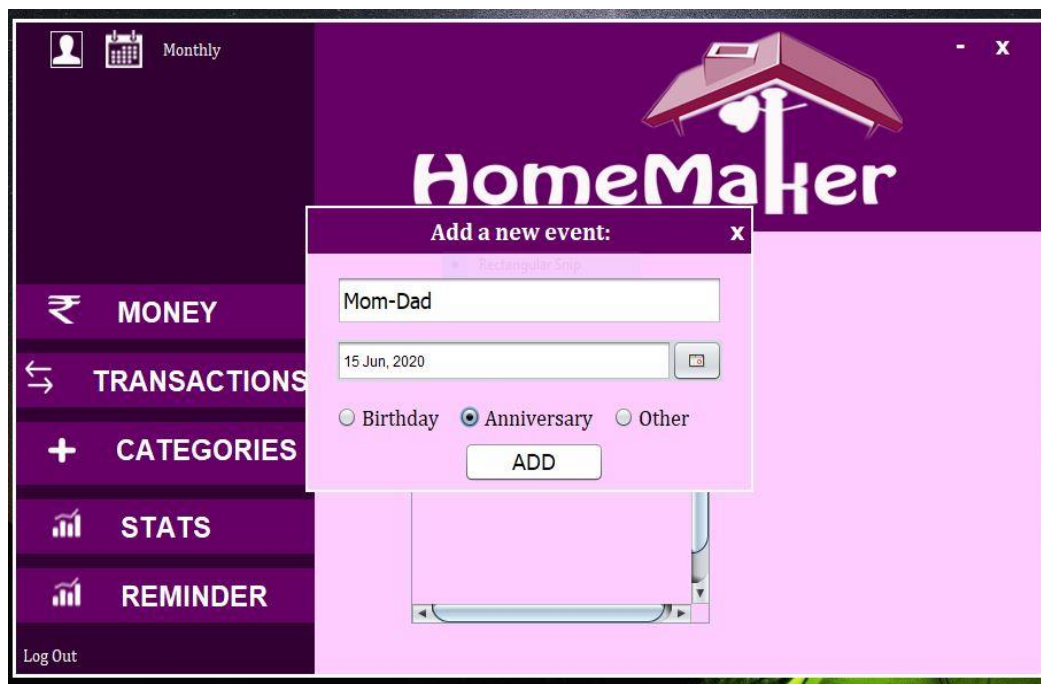


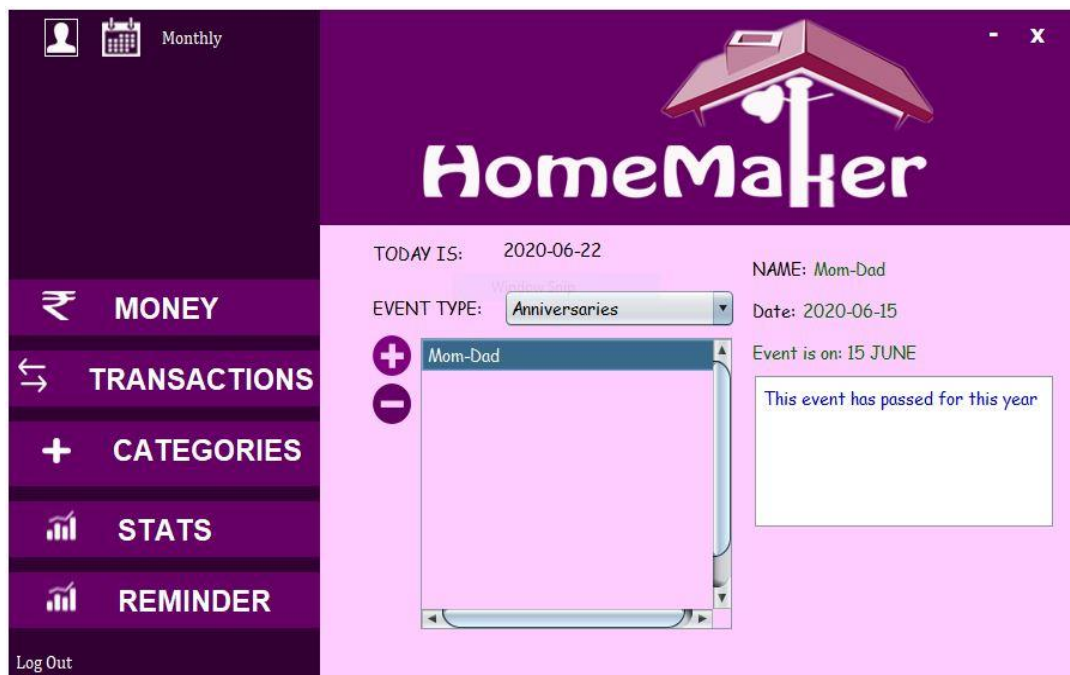


5. Reminder module: -

This module notifies the user about important dates and events.







*** The libraries used in this project are:**

- MySQL JDBC driver- mysql-connector-java-5.1.23-bin.jar
- Absolute Layout- AbsoluteLayout.jar
- JCalendar 1.4.jar
- JFreechart 1.0.19.jar
- jcommon 1.0.23.jar
- swing-components-4.25.0.jar
- mysql-connector-java-8.0.20.jar
- mail.jar
- activation.jar
- JDK 1.8 (default)

*** The classes used for this project are:**

- Add_cat
- addEvent
- change_password

- change_username
- create chart
- expense
- homepage
- income
- login
- register
- reminder popup
- remove cat
- saving
- storedata
- transaction

10. FUTURE ENHANCEMENT

In any project, though present satisfaction is important but also it is equally important to see and visualize the future scope. The project which is developed now may be need to undergo some changes in future in order to match up the technology prevailing that time, thus change due to development in technology are advisable.

We can add a feature where user can set their own goals for savings and would be rewarded with **appreciation messages** that would motive them to save more and also, we can add a feature of sharing their progress with their friends.

We can also add an accessibility where user gets a **warning message** after spending more than 80% of their total budget or in cases when the user exceeds their budget limit.

We can add **In-App calculator** to do calculations while doing entries, in the app.

A feature could be added where user could **take a photograph** of their different receipts and bills for further use. Along with that payment gateways could be added for online payment of bills. Set budget that alert them when they are exceeding their maximum spending threshold.

11. CONCLUSION

In this report we have discussed a flexible solution for keeping track of group expenses on the go rather than the contemporary way of making mental and sometimes erroneous calculations. We discussed at length about some existing applications along with their limitations. Our application deals with developing an application to overcome the shortcomings of the existing expense-tracking applications. We have also made a comparative study of various available technologies to solve and their feasibilities and advantages/disadvantages. This report discussed the proposed system in detail, with regards to its functionality, strength and weaknesses.

After making this application we assure that this application will help its users to manage the cost of their daily expenditure. It will guide them and aware them about their daily expenses. It will prove to be helpful for the people who are frustrated with their daily budget management, initiated because of amount of expenses and wishes to manage money and to preserve the record of their daily cost which may be useful to change their way of spending money. In short, this application will help its uses to overcome the wastage of money.

12. REFERENCES

Online references:

<https://www.wikipedia.org/>

<https://www.geeksforgeeks.org/>

<https://www.quora.com/>

<https://www.stackoverflow.com/>

<https://www.tutorialspoint.com/>

<https://www.youtube.com/>

Books:

Java – E. Balagurusamy

APPENDIX-

1. How much do you earn per month?
2. Do you know how much you expend?
3. Do you use any tools to track your expenses?
 - a) yes
 - b) no
4. Are you familiar/comfortable with android applications?
 - a) yes
 - b) no
5. Do you think using such application may be beneficial/efficient for budget?
 - a) yes
 - b) no

SOURCE CODE: -**REGISTER.JAVA**

```
import java.util.Properties;

import javax.mail.Message;

import javax.mail.MessagingException;

import javax.mail.PasswordAuthentication;

import javax.mail.Session;

import javax.mail.Transport;

import javax.mail.internet.AddressException;

import javax.mail.internet.InternetAddress;

import javax.mail.internet.MimeMessage;

import java.awt.Color;

import java.awt.HeadlessException;

import javax.swing.BorderFactory;

import javax.swing.JFrame;

import javax.swing.border.Border;

import java.sql.*;

import javax.swing.JOptionPane;


public class Register extends javax.swing.JFrame {

    Connection con = null;

    Statement stmt = null;

    ResultSet rs = null;

    /**
     * Creates new form Register
```

```
*/  
  
public Register() {  
    initComponents();  
  
    //center the form  
    this.setLocationRelativeTo(null);  
  
    //create the border for panel  
    // Border b = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.yellow);  
    //jpreg.setBorder(b);  
  
    //create black border for min and close labels  
    /* Border bl = BorderFactory.createMatteBorder(1, 1, 1, 1, Color.black);  
    min.setBorder(bl);  
    close.setBorder(bl);  
  
    //Create an orange border  
    Border b3 = BorderFactory.createMatteBorder(1, 1, 1, 1, Color.orange);  
    jPanel1.setBorder(b3);*/  
}  
  
@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated Code">  
private void initComponents() {  
  
    jPanel1 = new javax.swing.JPanel();
```

```
jPanel3 = new javax.swing.JPanel();

jBreg = new javax.swing.JButton();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

fn = new javax.swing.JTextField();

un = new javax.swing.JTextField();

pw = new javax.swing.JPasswordField();

cpw = new javax.swing.JPasswordField();

e = new javax.swing.JTextField();

jLabel7 = new javax.swing.JLabel();

min = new javax.swing.JLabel();

close = new javax.swing.JLabel();

back = new javax.swing.JLabel();

jLabel1 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setUndecorated(true);


jPanel1.setBackground(new java.awt.Color(255, 255, 255));

jPanel1.setLayout(null);


jPanel3.setBackground(new java.awt.Color(255, 255, 255));

jPanel3.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(102, 153, 255)));
```

```
jPanel3.setForeground(new java.awt.Color(51, 51, 51));

jPanel3.setOpaque(false);


jbreg.setBackground(new java.awt.Color(0, 153, 255));

jbreg.setFont(new java.awt.Font("Microsoft Sans Serif", 1, 24)); // NOI18N

jbreg.setForeground(new java.awt.Color(255, 255, 255));

jbreg.setText("Register");

jbreg.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jbreg.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        jbregMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        jbregMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        jbregMouseExited(evt);

    }

});

jbreg.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jbregActionPerformed(evt);

    }

});


jLabel2.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N

jLabel2.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel2.setText("Full Name");
```

```
jLabel3.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N
```

```
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel3.setText("Username");
```

```
jLabel4.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N
```

```
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel4.setText("Password");
```

```
jLabel5.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N
```

```
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel5.setText("Confirm Password");
```

```
jLabel6.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N
```

```
jLabel6.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel6.setText("E-mail");
```

```
fn.setFont(new java.awt.Font("Tekton Pro Cond", 0, 20)); // NOI18N
```

```
fn.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        fnActionPerformed(evt);
```

```
    }
```

```
});
```

```
un.setFont(new java.awt.Font("Tekton Pro Cond", 0, 20)); // NOI18N
```

```
pw.setFont(new java.awt.Font("Tekton Pro Cond", 0, 20)); // NOI18N

cpw.setFont(new java.awt.Font("Tekton Pro Cond", 0, 20)); // NOI18N

e.setFont(new java.awt.Font("Tekton Pro Cond", 0, 20)); // NOI18N

jLabel7.setIcon(new javax.swing.ImageIcon(getClass().getResource("/reg.png"))); // NOI18N

min.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
min.setForeground(new java.awt.Color(0, 128, 255));
min.setText("-");
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
min.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        minMouseClicked(evt);
    }
});

close.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
close.setForeground(new java.awt.Color(0, 128, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
});
```



```
back.setFont(new java.awt.Font("Tekton Pro Cond", 1, 18)); // NOI18N

back.setForeground(new java.awt. Color(255, 255, 255));

back. setText ("<<BACK");

back. addMouseListener (new java.awt.event.MouseAdapter() {

    public void mouseClicked (java.awt. event. MouseEvent evt) {

        backMouseClicked(evt);

    }

    public void mouseEntered (java.awt. event. MouseEvent evt) {

        backMouseEntered (evt);

    }

    public void mouseExited (java.awt. event. MouseEvent evt) {

        backMouseExited (evt);

    }

});

javax.swing. GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

    jPanel3Layout.createParallelGroup(javax. swing.GroupLayout.Alignment.LEADING)

        .addGroup (javax.swing.GroupLayout.Alignment.TRAILING,

jPanel3Layout.createSequentialGroup()

            . addContainerGap()

            .addComponent(back)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 85,

Short.MAX_ VALUE)

            .addComponent(jLabel7)

            . addGap (68, 68, 68)
```

```
.addComponent(min, javax.swing.GroupLayout.PREFERRED_SIZE, 27,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(close, javax.swing.GroupLayout.PREFERRED_SIZE, 27,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(21, 21, 21))

.addGroup(jPanel3Layout.createSequentialGroup())

.addGap(47, 47, 47)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jbreg, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(jPanel3Layout.createSequentialGroup())

.addComponent(jLabel6)

.addGap(120, 120, 120)

.addComponent(e))

.addGroup(jPanel3Layout.createSequentialGroup())

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel3)

.addComponent(jLabel2)

.addComponent(jLabel4)

.addComponent(jLabel5))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(pw, javax.swing.GroupLayout.DEFAULT_SIZE, 266,
Short.MAX_VALUE)

.addComponent(un, javax.swing.GroupLayout.Alignment.TRAILING)
```

```
.addComponent(fn, javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(cpw)))

.addGap(69, 69, 69))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel3Layout.createSequentialGroup())

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 88,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel3Layout.createSequentialGroup())

.addContainerGap())

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(min)

.addComponent(close))

.addComponent(back))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(fn, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel2))

.addGap(18, 18, 18)
```

```
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(un, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jLabel3))

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(pw, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jLabel4))

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(cpw, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jLabel5))

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(e, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jLabel6))

.addGap(18, 18, 18)

.addComponent(jbreg)

.addGap(69, 69, 69))

);

back.getAccessibleContext().setAccessibleName("<<<BACK");
```

```
jPanel1.add(jPanel3);

jPanel3.setBounds(0, 0, 550, 420);

jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/abstract-blue-geometric-
shapes-background_1035-17545.jpg"))); // NOI18N

jPanel1.add(jLabel1);

jLabel1.setBounds(0, -60, 550, 540);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 550, Short.MAX_VALUE)
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 424, Short.MAX_VALUE)
);

pack();
}

private void jBregMouseClicked(java.awt.event.MouseEvent evt) {

}

private void jBregMouseEntered(java.awt.event.MouseEvent evt) {
```

```
jbg.setBackground(new Color(0, 101, 183 ));  
}  
  
private void jbgMouseClicked(java.awt.event.MouseEvent evt) {  
    jbg.setBackground(new Color(0, 84, 104));  
}  
  
private void jbgActionPerformed(java.awt.event.ActionEvent evt) {  
    String fname = fn.getText();  
    String uname = un.getText();  
    String pass1 = String.valueOf(pw.getPassword());  
    String pass2 = String.valueOf(cpw.getPassword());  
    String mail = e.getText();  
  
    if(verifyFields())  
    {  
        if(!checkUsername(uname))  
        {  
            try{  
  
                Class.forName("com.mysql.jdbc.Driver");  
  
                Connection con1 =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");  
  
                Statement stmt1 = con1.createStatement();  
  
                String q = "Insert into user  
values('"+fname+"','"+uname+"','"+pass1+"','"+mail+"')";  
  
                if(stmt1.executeUpdate(q)!=0)
```

```
{
    JOptionPane.showMessageDialog(null, "Account has been created");
    confirmation(mail);
    LogIn form = new LogIn();
    form.setVisible(true);
    form.setLocationRelativeTo(null);
    this.dispose();
}
else{
    JOptionPane.showMessageDialog(null, "Error: Check your information");
}

}

catch(HeadlessException | ClassNotFoundException | SQLException e1)
{
    JOptionPane.showMessageDialog(null, "Error in connectivity1 cntannd");
}
}

}

}

private void fnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void minMouseClicked(java.awt.event.MouseEvent evt) {
```

```
// minimise form
this.setState(JFrame.ICONIFIED);
}

private void closeMouseClicked(java.awt.event.MouseEvent evt) {
    // close form
    System.exit(0);
}

private void backMouseClicked(java.awt.event.MouseEvent evt) {
    LogIn form = new LogIn();
        form.setVisible(true);
        form.setLocationRelativeTo(null);
        this.dispose();
}

private void backMouseEntered(java.awt.event.MouseEvent evt) {
    back.setForeground(Color.blue);
}

private void backMouseExited(java.awt.event.MouseEvent evt) {
    back.setForeground(Color.white);
}

public boolean verifyFields()
{
```



```
String fname = fn.getText();

String uname = un.getText();

String pw1 = String.valueOf(pw.getPassword());

String pw2 = String.valueOf(cpw.getPassword());

String mail = e.getText();

//check empty fields

if(fname.trim().equals("") || uname.trim().equals("") ||
pw1.trim().equals("") || pw2.trim().equals("") || mail.trim().equals(""))
{
    JOptionPane.showMessageDialog(null, "One or more fields is empty", "Empty Fields", 2);
    return false;
}

//check if pw are equals
else if(!pw1.equals(pw2))
{
    JOptionPane.showMessageDialog(null, "Passwords do not match", "Confirm Password", 2 );
    return false;
}

//if everything is ok
else
{
    return true;
}
}

//check if username already exists
```

```
public boolean checkUsername(String username){

    try{

        Class.forName("java.sql.Driver");

        Connection con3 = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement st = con3.createStatement();

        String q = "Select * from user;";

        ResultSet rs3 = st.executeQuery(q);

        while(rs3.next()){

            String us1 = rs3.getString("user_name");

            if(username.equals(us1)){

                JOptionPane.showMessageDialog(null, "This username already exists");

                return true;

            }

        }

        return false;

    }

    catch(HeadlessException | ClassNotFoundException | SQLException e)

    {

        JOptionPane.showMessageDialog(null, "Error in connectivity2 trial 3");

        return true;

    }

}
```

```
}

public static void main(String args[]) {

    /* Set the Nimbus look and feel */

    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

try {

    for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

        if ("Nimbus".equals(info.getName())) {

            javax.swing.UIManager.setLookAndFeel(info.getClassName());

            break;

        }

    }

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Register.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Register.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Register.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Register.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
```

```
}
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(() -> {
```

```
    new Register().setVisible(true);
```

```
});
```

```
}
```

```
private void confirmation (String mail) {
```

```
    final String username = "teamhomemaker@gmail.com";
```

```
    final String password = "xxxxxxxxx";
```

```
    Properties props = new Properties();
```

```
    props.put("mail.smtp.starttls.enable", "true");
```

```
    props.put("mail.smtp.auth", "true");
```

```
    props.put("mail.smtp.host", "smtp.gmail.com");
```

```
    props.put("mail.smtp.port", "587");
```

```
    Session session;
```

```
    session = Session.getInstance(props,
```

```
        new javax.mail.Authenticator() {
```

```
            @Override
```

```
            protected PasswordAuthentication getPasswordAuthentication() {
```

```
                return new PasswordAuthentication(username, password);
```

```
        }  
    });  
  
    try {  
  
        Message message = new MimeMessage(session);  
        message.setFrom(new InternetAddress("teamhomemaker@gmail.com"));  
        message.setRecipients(Message.RecipientType.TO,  
            InternetAddress.parse(mail));  
        message.setSubject("Succesfully Registered!");  
        message.setText("Dear User, Thank You for choosing Homemaker!");  
        Transport.send(message);  
        System.out.println("Done");  
    } catch (MessagingException e) {  
        throw new RuntimeException(e);  
    }  
}
```

LOGIN.JAVA

```
import java.awt.Color;  
import java.awt.HeadlessException;  
import javax.swing.BorderFactory;  
import javax.swing.JFrame;
```

```
import javax.swing.border.Border;

import java.sql.*;

import javax.swing.JOptionPane;

public class LogIn extends javax.swing.JFrame {

    /**
     * Creates new form LogIn
     */
    public LogIn() {
        initComponents();

        //center the form
        this.setLocationRelativeTo(null);

    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jPanel2 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        user = new javax.swing.JLabel();
        un = new javax.swing.JTextField();
        pass = new javax.swing.JLabel();
```

```
pw = new javax.swing.JPasswordField();

jblog = new javax.swing.JButton();

create = new javax.swing.JLabel();

min = new javax.swing.JLabel();

close = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setUndecorated(true);


jPanel1.setBackground(new java.awt.Color(0, 153, 76));


jPanel2.setBackground(new java.awt.Color(153, 153, 153));


jPanel3.setBackground(new java.awt.Color(0, 102, 0));
jPanel3.setForeground(new java.awt.Color(51, 51, 51));


user.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icons8-user-40.png"))); //
NOI18N

un.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
un.setForeground(new java.awt.Color(153, 153, 153));
un.setText("username");
un.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        unFocusGained(evt);
    }
}
```

```
        public void focusLost(java.awt.event.FocusEvent evt) {

            unFocusLost(evt);

        }

    });

    pass.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icons8-forgot-password-48.png"))); // NOI18N

    pw.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    pw.setForeground(new java.awt.Color(153, 153, 153));
    pw.setText("password");
    pw.addFocusListener(new java.awt.event.FocusAdapter() {

        public void focusGained(java.awt.event.FocusEvent evt) {

            pwFocusGained(evt);

        }

        public void focusLost(java.awt.event.FocusEvent evt) {

            pwFocusLost(evt);

        }

    });

    jblog.setBackground(new java.awt.Color(0, 153, 76));
    jblog.setFont(new java.awt.Font("Microsoft Sans Serif", 1, 24)); // NOI18N
    jblog.setText("Login");
    jblog.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
    jblog.addMouseListener(new java.awt.event.MouseAdapter() {

        public void mouseClicked(java.awt.event.MouseEvent evt) {

            jblogMouseClicked(evt);

        }

    });
```



```
}

public void mouseEntered(java.awt.event.MouseEvent evt) {
    jblogMouseEntered(evt);
}

public void mouseExited(java.awt.event.MouseEvent evt) {
    jblogMouseExited(evt);
}

});

jblog.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jblogActionPerformed(evt);
    }
});

create.setFont(new java.awt.Font("Tekton Pro Cond", 0, 24)); // NOI18N
create.setForeground(new java.awt.Color(255, 204, 204));
create.setText(">>No Account?? Create One! ");
create.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
create.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        createMouseClicked(evt);
    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {
        createMouseEntered(evt);
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {
        createMouseExited(evt);
    }
});
```

```
    }  
});  
  
min.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N  
min.setForeground(new java.awt.Color(255, 255, 255));  
min.setText("-");  
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
min.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        minMouseClicked(evt);  
    }  
});  
  
close.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N  
close.setForeground(new java.awt.Color(255, 255, 255));  
close.setText("x");  
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
close.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        closeMouseClicked(evt);  
    }  
});  
  
jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/new_1.png"))); // NOI18N  
  
javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);  
jPanel3.setLayout(jPanel3Layout);
```

```
jPanel3Layout.setHorizontalGroup(  
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
jPanel3Layout.createSequentialGroup())  
        .addGap(0, 66, Short.MAX_VALUE)  
  
    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
        .addGroup(jPanel3Layout.createSequentialGroup())  
            .addComponent(min, javax.swing.GroupLayout.PREFERRED_SIZE, 27,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
            .addComponent(close, javax.swing.GroupLayout.PREFERRED_SIZE, 27,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(21, 21, 21))  
        .addGroup(jPanel3Layout.createSequentialGroup())  
  
    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
        .addComponent(jblog, javax.swing.GroupLayout.PREFERRED_SIZE, 394,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addGroup(jPanel3Layout.createSequentialGroup())  
  
    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
        .addComponent(user, javax.swing.GroupLayout.PREFERRED_SIZE, 48,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addComponent(pass))  
        .addGap(18, 18, 18)  
  
    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addComponent(pw, javax.swing.GroupLayout.PREFERRED_SIZE, 328,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addComponent(un, javax.swing.GroupLayout.PREFERRED_SIZE, 328,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGap(46, 46, 46)))

        .addGroup(jPanel3Layout.createSequentialGroup())

        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel3Layout.createSequentialGroup())

                .addGap(191, 191, 191)

                .addComponent(jLabel2))

            .addGroup(jPanel3Layout.createSequentialGroup())

                .addGap(129, 129, 129)

                .addComponent(create)))

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

    );

    jPanel3Layout.setVerticalGroup(

        jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel3Layout.createSequentialGroup())

                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                    .addComponent(min)

                    .addComponent(close))

                .addGap(32, 32, 32)

                .addComponent(jLabel2)

                .addGap(54, 54, 54)

            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

                .addGroup(jPanel3Layout.createSequentialGroup())

            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
```

```
.addComponent(un, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(user, javax.swing.GroupLayout.PREFERRED_SIZE, 48,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(41, 41, 41)

.addComponent(pw, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addComponent(pass, javax.swing.GroupLayout.PREFERRED_SIZE, 48,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(48, 48, 48)

.addComponent(jblog)

.addGap(62, 62, 62)

.addComponent(create)

.addContainerGap(64, Short.MAX_VALUE))

);

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel3, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
```

```
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(10, 10, 10)
        )
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(10, 10, 10)
        )
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, Short.MAX_VALUE)
        )
);
```

```
layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

    );

pack();
} // </editor-fold>
```

```
private void closeMouseClicked(java.awt.event.MouseEvent evt) {

    // close form

    System.exit(0);

}
```

```
private void minMouseClicked(java.awt.event.MouseEvent evt) {

    // minimise form

    this.setState(JFrame.ICONIFIED);

}
```

```
private void unFocusGained(java.awt.event.FocusEvent evt) {

    //clear the textfield if text is "username"

    if(un.getText().trim().toLowerCase().equals("username"))

    {

        un.setText("");

        un.setForeground(Color.black);

    }

    //border for user icon
```

```
        Border bu = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);

        user.setBorder(bu);
    }

    private void unFocusLost(java.awt.event.FocusEvent evt) {

        if(un.getText().trim().equals("") || un.getText().trim().toLowerCase().equals("username"))
        {
            un.setText("username");

            un.setForeground(new Color (153, 153, 153));
        }

        // remove border

        user.setBorder(null);
    }

    private void pwFocusGained(java.awt.event.FocusEvent evt) {

        //clear the textfield

        //clear the textfield if text is "username"

        if(pw.getText().trim().toLowerCase().equals("password"))
        {
            pw.setText("");

            pw.setForeground(Color.black);
        }

        //border for user icon

        Border bp = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);

        pass.setBorder(bp);
    }
```



```
private void pwFocusLost(java.awt.event.FocusEvent evt) {  
    if(pw.getText().trim().equals("") || pw.getText().trim().toLowerCase().equals("password"))  
    {  
        pw.setText("password");  
        pw.setForeground(new Color (153, 153, 153));  
    }  
    // remove border  
    pass.setBorder(null);  
}  
  
private void jblogMouseEntered(java.awt.event.MouseEvent evt) {  
    jblog.setBackground(new Color(0, 153, 76));  
}  
  
private void jblogMouseExited(java.awt.event.MouseEvent evt) {  
    jblog.setBackground(new Color(0, 153, 0));  
}  
  
private void jblogMouseClicked(java.awt.event.MouseEvent evt) {  
    String username = un.getText();  
    String password = String.valueOf(pw.getPassword());  
    int flag = 0;  
    try{  
        Class.forName("com.mysql.jdbc.Driver");  
        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",  
"root", "password");  
        Statement stmt = con.createStatement();
```

```
String q = "Select * from user";

ResultSet rs = stmt.executeQuery(q);

while(rs.next()){

    String us1 = rs.getString("user_name");

    String pw1 = rs.getString("pass_word");

    if(username.equals(us1) && password.equals(pw1))

        {

            flag = 1;

            break;

        }

    }

    if(flag == 1)

    {

        HomePage form = new HomePage(username);

        storeData obj = new storeData();

        obj.storeUsername(username);

        form.setVisible(true);

        form.setLocationRelativeTo(null);

        this.dispose();

    }

    else

    {

        JOptionPane.showMessageDialog(null, "Invalid username or password");

    }

}
```

```
}

    catch(Exception e)

        {

            JOptionPane.showMessageDialog(null, "Error while establishing connection");

        }

}

private void jblogActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}

private void createMouseEntered(java.awt.event.MouseEvent evt) {

    Border cb = BorderFactory.createMatteBorder(0, 0, 1, 0, Color.WHITE);

    create.setBorder(cb);

}

private void createMouseExited(java.awt.event.MouseEvent evt) {

    create.setBorder(null);

}

private void createMouseClicked(java.awt.event.MouseEvent evt) {

    Register rf = new Register();

    rf.pack();

    rf.setVisible(true);
```

```
        this.dispose();
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        }
    }
}

//</editor-fold>
```

```
/* Create and display the form */  
  
java.awt.EventQueue.invokeLater(new Runnable() {  
    public void run() {  
        new LogIn().setVisible(true);  
    }  
});  
}  
  
}
```

ADD CATEGORIES.JAVA

```
import java.awt.Color;  
  
import java.sql.Connection;  
  
import java.sql.DriverManager;  
  
import java.sql.Statement;  
  
import javax.swing.JFrame;  
  
import javax.swing.JOptionPane;  
  
public class add_cat extends javax.swing.JFrame {  
  
    /**  
     * Creates new form add_cat  
     */  
  
    public add_cat() {  
        initComponents();  
    }  
}
```

```
        this.setLocationRelativeTo(null);
    }

    public add_cat(String u){
        initComponents();
        this.setLocationRelativeTo(null);
        username.setVisible(false);
        username.setText(u);
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        buttonGroup1 = new javax.swing.ButtonGroup();
        jPanel1 = new javax.swing.JPanel();
        jPanel2 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        min = new javax.swing.JLabel();
        close = new javax.swing.JLabel();
        cat_field = new javax.swing.JTextField();
        ex_rb = new javax.swing.JRadioButton();
        sv_rb = new javax.swing.JRadioButton();
        cat_addbutton = new javax.swing.JButton();
        username = new javax.swing.JLabel();
        in_rb = new javax.swing.JRadioButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
setUndecorated(true);

jPanel1.setBackground(new java.awt.Color(255, 204, 255));

jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));

jPanel2.setBackground(new java.awt.Color(102, 0, 102));

jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Add a new category:");

min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
min.setForeground(new java.awt.Color(255, 255, 255));
min.setText("-");
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
min.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        minMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        minMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        minMouseExited(evt);
    }
});
```

```
close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        closeMouseExited(evt);
    }
});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(131, 131, 131)
            .addComponent(jLabel1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(min)
        )
    );
```



```
.addGap(18, 18, 18)

.addComponent(close)

.addGap(15, 15, 15))

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup())

.addContainerGap()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(min)

.addComponent(close))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

cat_field.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
cat_field.setForeground(new java.awt.Color(153, 153, 153));
cat_field.setText("categoryname");
cat_field.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        cat_fieldFocusGained(evt);
    }
    public void focusLost(java.awt.event.FocusEvent evt) {
        cat_fieldFocusLost(evt);
    }
});
```

```
buttonGroup1.add(ex_rb);

ex_rb.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
ex_rb.setSelected(true);
ex_rb.setText("Expense");
ex_rb.setOpaque(false);


buttonGroup1.add(sv_rb);

sv_rb.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
sv_rb.setText("Savings");
sv_rb.setOpaque(false);


cat_addbutton.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N
cat_addbutton.setText("ADD");
cat_addbutton.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        cat_addbuttonMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        cat_addbuttonMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        cat_addbuttonMouseExited(evt);
    }
});

cat_addbutton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        cat_addbuttonActionPerformed(evt);
    }
});

buttonGroup1.add(in_rb);

in_rb.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
in_rb.setText("Income");
in_rb.setOpaque(false);

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
            .addGap(0, 65, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(cat_field, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addGroup(jPanel1Layout.createSequentialGroup()
```

```
.addGap(88, 88, 88)

.addComponent(cat_addbutton, javax.swing.GroupLayout.PREFERRED_SIZE,
122, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())

.addComponent(ex_rb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(in_rb)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(sv_rb)))

.addGap(54, 54, 54))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 74,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(39, 39, 39)))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(cat_field, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())
```

```
.addGap(56, 56, 56)

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel1Layout.createSequentialGroup())

.addGap(26, 26, 26)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(ex_rb)

.addComponent(in_rb)

.addComponent(sv_rb))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(cat_addbutton)

.addGap(24, 24, 24))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

);
```

```
        pack();
    } // </editor-fold>

    private void cat_fieldFocusGained(java.awt.event.FocusEvent evt) {
        //clear the textfield if text is "categoryname"
        if(cat_field.getText().trim().toLowerCase().equals("categoryname"))
        {
            cat_field.setText("");
            cat_field.setForeground(Color.black);
        }
    }

    private void cat_fieldFocusLost(java.awt.event.FocusEvent evt) {
        if(cat_field.getText().trim().equals("") ||
        cat_field.getText().trim().toLowerCase().equals("categoryname"))
        {
            cat_field.setText("categoryname");
            cat_field.setForeground(new Color (153, 153, 153));
        }
    }

    private void cat_addbuttonMouseEntered(java.awt.event.MouseEvent evt) {
        cat_addbutton.setBackground(new Color(176, 196, 222));
    }

    private void cat_addbuttonMouseExited(java.awt.event.MouseEvent evt) {
        cat_addbutton.setBackground(new Color(240, 255, 240));
    }
}
```

```
}
```

```
private void minMouseClicked(java.awt.event.MouseEvent evt) {  
    // minimise the form  
    this.setState(JFrame.ICONIFIED);  
}
```

```
private void minMouseEntered(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(178, 102, 255));  
}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(255, 255, 255));  
}
```

```
private void closeMouseClicked(java.awt.event.MouseEvent evt) {  
    //close the form  
    this.dispose();  
}
```

```
private void closeMouseEntered(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(178, 102, 255));  
}
```

```
private void closeMouseExited(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(255, 255, 255));  
}
```

```
private void cat_addbuttonMouseClicked(java.awt.event.MouseEvent evt) {  
  
}  
  
private void cat_addbuttonActionPerformed(java.awt.event.ActionEvent evt) {  
    String cat_name = cat_field.getText();  
    String cat_type;  
    String us = username.getText();  
    if(in_rb.isSelected()== true){  
        cat_type = "I";  
    }  
    else if(sv_rb.isSelected()== true){  
        cat_type = "S";  
    }  
    else  
        cat_type = "E";  
  
    try{  
  
        Class.forName("java.sql.Driver");  
        Connection con1 =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");  
        Statement stmt1 = con1.createStatement();  
        String q = "Insert into categories values("  
        +"""+cat_name+"",""+cat_type+"",""+us+"");";  
    }  
}
```



```
        if(stmt1.executeUpdate(q)!=0)
        {
            JOptionPane.showMessageDialog(null, "New Category is added");
            this.dispose();
        }
        else{
            JOptionPane.showMessageDialog(null, "Something went wrong, please try again.");
        }

    }
    catch(Exception e1)
    {
        JOptionPane.showMessageDialog(null, "Error in connectivity1");
    }
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
    catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(add_cat.class.getName()).log(java.util.logging.Level.SEVERE, null,
        ex);
    }
}
```

```
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(add_cat.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(add_cat.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(add_cat.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    }

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new add_cat().setVisible(true);
    }
});
}

}
```

REMOVE CATEGORY.JAVA

```
import java.awt.Color;

import java.sql.Connection;

import java.sql.DriverManager;
```

```
import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.DefaultComboBoxModel;

import javax.swing.JFrame;

import javax.swing.JOptionPane;


public class RemoveCat extends javax.swing.JFrame {

    /**
     * Creates new form RemoveCat
     */
    public RemoveCat() {
        initComponents();
    }

    public RemoveCat(String u){
        initComponents();

        this.setLocationRelativeTo(null);

        username.setVisible(false);

        username.setText(u);
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        buttonGroup1 = new javax.swing.ButtonGroup();

        jPanel1 = new javax.swing.JPanel();

        jPanel2 = new javax.swing.JPanel();
```

```
jLabel1 = new javax.swing.JLabel();

min = new javax.swing.JLabel();

close = new javax.swing.JLabel();

ex_rb = new javax.swing.JRadioButton();

sv_rb = new javax.swing.JRadioButton();

cat_rembutton = new javax.swing.JButton();

username = new javax.swing.JLabel();

in_rb = new javax.swing.JRadioButton();

cat_combo = new javax.swing.JComboBox<>();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setUndecorated(true);

addWindowListener(new java.awt.event.WindowAdapter() {

    public void windowOpened(java.awt.event.WindowEvent evt) {

        formWindowOpened(evt);

    }

});


jPanel1.setBackground(new java.awt.Color(255, 204, 255));

jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));


jPanel2.setBackground(new java.awt.Color(102, 0, 102));


jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 255, 255));

jLabel1.setText("Remove a category:");
```

```
min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
min.setForeground(new java.awt.Color(255, 255, 255));
min.setText("-");
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
min.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        minMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        minMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        minMouseExited(evt);
    }
});
```

```
close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }
});
```

```

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        closeMouseExited(evt);

    }

});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(15, 15, 15)
            .addComponent(close)
            .addGap(15, 15, 15)
        )
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(min)
            .addGap(62, 62, 62)
            .addComponent(jLabel1)
            .addGap(18, 18, 18)
        )
    );
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(15, 15, 15)
            .addComponent(jLabel1)
            .addGap(15, 15, 15)
            .addComponent(min)
        )
    );

```

```
        .addComponent(close))

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

    );
```

```
    buttonGroup1.add(ex_rb);

    ex_rb.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
    ex_rb.setSelected(true);
    ex_rb.setText("Expense");
    ex_rb.setOpaque(false);
    ex_rb.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            ex_rbActionPerformed(evt);
        }
    });
```

```
    buttonGroup1.add(sv_rb);

    sv_rb.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
    sv_rb.setText("Savings");
    sv_rb.setOpaque(false);
    sv_rb.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            sv_rbActionPerformed(evt);
        }
    });
```

```
    cat_rembutton.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N
    cat_rembutton.setText("REMOVE");
```

```
cat_rembutton.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        cat_rembuttonMouseClicked(evt);  
    }  
    public void mouseEntered(java.awt.event.MouseEvent evt) {  
        cat_rembuttonMouseEntered(evt);  
    }  
    public void mouseExited(java.awt.event.MouseEvent evt) {  
        cat_rembuttonMouseExited(evt);  
    }  
});  
cat_rembutton.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        cat_rembuttonActionPerformed(evt);  
    }  
});  
  
buttonGroup1.add(in_rb);  
in_rb.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N  
in_rb.setText("Income");  
in_rb.setOpaque(false);  
in_rb.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        in_rbActionPerformed(evt);  
    }  
});
```



```
cat_combo.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
cat_combo.setForeground(new java.awt.Color(153, 153, 153));
cat_combo.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        cat_comboFocusGained(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(58, 58, 58)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(cat_combo, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(58, 58, 58)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addComponent(cat_rembutton, javax.swing.GroupLayout.PREFERRED_SIZE, 122,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addComponent(ex_rb)
                            .addGap(58, 58, 58)
                            .addComponent(in_rb)))
                    .addGap(58, 58, 58))
            .addContainerGap(115, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(ex_rb)
            .addComponent(in_rb))
        .addGap(58, 58, 58)
        .addComponent(in_rb))
    );
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 59,
Short.MAX_VALUE)

.addComponent(sv_rb)))

.addContainerGap())

.addGroup(jPanel1Layout.createSequentialGroup())

.addGap(140, 140, 140)

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 74,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(cat_combo, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(in_rb)

.addComponent(ex_rb)

.addComponent(sv_rb))

.addGap(12, 12, 12)

.addComponent(cat_rembutton)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addContainerGap(34, Short.MAX_VALUE))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

);

pack();

} // </editor-fold>

private void minMouseClicked(java.awt.event.MouseEvent evt) {

    // minimise the form

    this.setState(JFrame.ICONIFIED);

}

private void minMouseEntered(java.awt.event.MouseEvent evt) {

    min.setForeground(new Color(178, 102, 255));

}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(255, 255, 255));  
}
```

```
private void closeMouseClicked(java.awt.event.MouseEvent evt) {  
    //close the form  
    this.dispose();  
}
```

```
private void closeMouseEntered(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(178, 102, 255));  
}
```

```
private void closeMouseExited(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(255, 255, 255));  
}
```

```
private void cat_rembuttonMouseClicked(java.awt.event.MouseEvent evt) {  
  
}
```

```
private void cat_rembuttonMouseEntered(java.awt.event.MouseEvent evt) {  
    cat_rembutton.setBackground(new Color(176, 196, 222));  
}
```

```
private void cat_rembuttonMouseExited(java.awt.event.MouseEvent evt) {  
    cat_rembutton.setBackground(new Color(240, 255, 240));  
}
```

```
}

private void cat_rembuttonActionPerformed(java.awt.event.ActionEvent evt) {

    String cat_name = (String)cat_combo.getSelectedItem();

    String cat_type;

    String us = username.getText();

    if(in_rb.isSelected()== true){

        cat_type = "I";

    }

    else if(sv_rb.isSelected()== true){

        cat_type = "S";

    }

    else

        cat_type = "E";

    try{

        Class.forName("java.sql.Driver");

        Connection con1 =
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");

        Statement stmt1 = con1.createStatement();

        String q = "Delete from categories where Type = '"+cat_type+"' and Name = '"+cat_name+"'
and User_Name = '"+us+"'";

        if(stmt1.executeUpdate(q)!=0)

        {

            JOptionPane.showMessageDialog(null, "Category is removed");
```

```
        this.dispose();
    }

    else if(cat_combo.getItemCount()<1){

        JOptionPane.showMessageDialog(null, "No category available to remove");
    }

    else{

        JOptionPane.showMessageDialog(null, "Something went wrong, please try again.");
    }

}

catch(Exception e1)

{

    JOptionPane.showMessageDialog(null, "Error in connectivity1");
}

}

private void cat_comboFocusGained(java.awt.event.FocusEvent evt) {

}

private void formWindowOpened(java.awt.event.WindowEvent evt) {

    String type = "E";

    combo(type);

}

public void combo(String t){

    cat_combo.removeAllItems();

    String us = username.getText();
```

```
DefaultComboBoxModel cat = new DefaultComboBoxModel();

try{

    Class.forName("java.sql.Driver");

    Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

    Statement stmt = con.createStatement();

    String q = "Select Name from categories where Type='"+t+"' AND User_Name = '"+us+"';";

    ResultSet rs = stmt.executeQuery(q);

    while(rs.next()){

        String e1 = rs.getString("Name");

        cat.addElement(e1);

        cat_combo.setModel(cat);

    }

}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection");

}

}

private void in_rbActionPerformed(java.awt.event.ActionEvent evt) {

    String type = "I";

    combo(type);

}
```

```
private void ex_rbActionPerformed(java.awt.event.ActionEvent evt) {  
    String type = "E";  
  
    combo(type);  
}  
  
private void sv_rbActionPerformed(java.awt.event.ActionEvent evt) {  
    String type = "S";  
  
    combo(type);  
}  
  
public static void main(String args[]) {  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    }  
    catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(RemoveCat.class.getName()).log(java.util.logging.Level.SEVERE,  
            null, ex);  
    }  
    catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(RemoveCat.class.getName()).log(java.util.logging.Level.SEVERE,  
            null, ex);  
    }  
    catch (IllegalAccessException ex) {
```



```
java.util.logging.Logger.getLogger(RemoveCat.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(RemoveCat.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);
```

```
    }
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

```
        new RemoveCat().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
}
```

EXPENSES.JAVA

```
import java.awt.Color;
```

```
import java.sql.Connection;
```

```
import java.util.Date;
```

```
import java.sql.DriverManager;
```

```
import java.sql.ResultSet;
```

```
import java.sql.Statement;
```

```
import java.text.DateFormat;
```

```
import java.text.SimpleDateFormat;

import java.util.Locale;

import javax.swing.DefaultComboBoxModel;


import javax.swing.JFrame;

import javax.swing.JOptionPane;


import java.time.LocalDate;

public class Expense extends javax.swing.JFrame {


    /**
     * Creates new form Expense
     */
    public Expense() {
        initComponents();
        this.setLocationRelativeTo(null);
    }


    public Expense(String u){
        initComponents();
        this.setLocationRelativeTo(null);

        //String verify_u = u;
        username.setText(u);
    }

    @SuppressWarnings("unchecked")

    // <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```
private void initComponents() {

    jCalendar1 = new com.toedter.calendar.JCalendar();

    jPanel1 = new javax.swing.JPanel();

    jPanel3 = new javax.swing.JPanel();

    jPanel2 = new javax.swing.JPanel();

    jLabel1 = new javax.swing.JLabel();

    min = new javax.swing.JLabel();

    close = new javax.swing.JLabel();

    username = new javax.swing.JLabel();

    user1 = new javax.swing.JLabel();

    jDateChooser = new com.toedter.calendar.JDateChooser();

    amount = new javax.swing.JTextField();

    jScrollPane1 = new javax.swing.JScrollPane();

    extra = new javax.swing.JTextArea();

    save = new javax.swing.JButton();

    cat_combo_ex = new javax.swing.JComboBox<>();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    setUndecorated(true);

    addWindowListener(new java.awt.event.WindowAdapter() {

        public void windowOpened(java.awt.event.WindowEvent evt) {

            formWindowOpened(evt);

        }

    });

    jPanel1.setBackground(new java.awt.Color(204, 102, 255));
```

```
jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new  
java.awt.Color(255, 255, 255)));
```

```
jPanel1.setLayout(new java.awt.BorderLayout());
```

```
jPanel3.setBackground(new java.awt.Color(255, 204, 255));
```

```
jPanel2.setBackground(new java.awt.Color(102, 0, 102));
```

```
jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N
```

```
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel1.setText("Expense - All your expenses");
```

```
min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
```

```
min.setForeground(new java.awt.Color(255, 255, 255));
```

```
min.setText("-");
```

```
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
min.addMouseListener(new java.awt.event.MouseAdapter() {
```

```
    public void mouseClicked(java.awt.event.MouseEvent evt) {
```

```
        minMouseClicked(evt);
```

```
    }
```

```
    public void mouseEntered(java.awt.event.MouseEvent evt) {
```

```
        minMouseEntered(evt);
```

```
    }
```

```
    public void mouseExited(java.awt.event.MouseEvent evt) {
```

```
        minMouseExited(evt);
```

```
    }
```

```
});
```

```
close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        closeMouseExited(evt);
    }
});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(81, 81, 81)
            .addComponent(jLabel1)
            .addGap(61, 61, 61)
            .addComponent(min)
            .addGap(18, 18, 18)
```

```
.addComponent(close)

.addGap(15, 15, 15))

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup())

.addContainerGap()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup())

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(min)

.addComponent(close))

.addGap(0, 11, Short.MAX_VALUE))

.addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 36,
Short.MAX_VALUE))

.addContainerGap())

);

username.setFont(new java.awt.Font("Comic Sans MS", 0, 24)); // NOI18N

username.setForeground(new java.awt.Color(102, 0, 102));

user1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icons8-user-40.png"))); //
NOI18N

jDateChooser.setDateFormatString("yyyy-MM-dd");

jDateChooser.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N
```

```
amount.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
amount.setForeground(new java.awt.Color(153, 153, 153));
amount.setText("Amount");
amount.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        amountFocusGained(evt);
    }
    public void focusLost(java.awt.event.FocusEvent evt) {
        amountFocusLost(evt);
    }
});
```

```
extra.setColumns(20);
extra.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
extra.setForeground(new java.awt.Color(153, 153, 153));
extra.setRows(5);
extra.setText("Extra notes\n");
extra.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        extraFocusGained(evt);
    }
    public void focusLost(java.awt.event.FocusEvent evt) {
        extraFocusLost(evt);
    }
});
jScrollPane1.setViewportViewView(extra);
```

```
save.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N

save.setText("SAVE");

save.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        saveMouseClicked(evt);

    }

});

cat_combo_ex.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N

cat_combo_ex.setForeground(new java.awt.Color(153, 153, 153));

cat_combo_ex.addFocusListener(new java.awt.event.FocusAdapter() {

    public void focusGained(java.awt.event.FocusEvent evt) {

        cat_combo_exFocusGained(evt);

    }

});

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,

javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(jPanel3Layout.createSequentialGroup()

            .addComponent(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addGroup(jPanel3Layout.createSequentialGroup()

                    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                        .addGroup(jPanel3Layout.createSequentialGroup()

                            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                .addGroup(jPanel3Layout.createSequentialGroup()

                                    .addGap(33, 33, 33)
```



```
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

    .addGroup(jPanel3Layout.createSequentialGroup()

        .addComponent(user1)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addComponent(username, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

        .addComponent(jDateChooser, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)

        .addComponent(amount, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)

        .addComponent(jScrollPane1)

        .addComponent(cat_combo_ex, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))

    .addGroup(jPanel3Layout.createSequentialGroup())

    .addGap(152, 152, 152)

    .addComponent(save, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE)))

    .addContainerGap(37, Short.MAX_VALUE))

);

jPanel3Layout.setVerticalGroup(

    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(jPanel3Layout.createSequentialGroup()

        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(18, 18, 18)

        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

            .addComponent(user1)
```

```
.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(jDateChooser, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(cat_combo_ex, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(amount, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(save)

.addContainerGap(23, Short.MAX_VALUE))

);

jPanel1.add(jPanel3, java.awt.BorderLayout.CENTER);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

);

layout.setVerticalGroup(
```

```
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        );
```

```
        pack();

    } // </editor-fold>
```

```
private void minMouseClicked(java.awt.event.MouseEvent evt) {

    // minimise the form

    this.setState(JFrame.ICONIFIED);

}
```

```
private void minMouseEntered(java.awt.event.MouseEvent evt) {

    min.setForeground(new Color(178, 102, 255));

}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {

    min.setForeground(new Color(255, 255, 255));

}
```

```
private void closeMouseClicked(java.awt.event.MouseEvent evt) {

    //close the form

    this.dispose();

}
```

```
private void closeMouseEntered(java.awt.event.MouseEvent evt) {
```

```
        close.setForeground(new Color(178, 102, 255));
    }

    private void closeMouseExited(java.awt.event.MouseEvent evt) {
        close.setForeground(new Color(255, 255, 255));
    }

    private void amountFocusGained(java.awt.event.FocusEvent evt) {
        if(amount.getText().trim().equals("Amount"))
        {
            amount.setText("");
            amount.setForeground(Color.black);
        }
    }

    private void amountFocusLost(java.awt.event.FocusEvent evt) {
        if(amount.getText().trim().equals("") || amount.getText().trim().equals("Amount"))
        {
            amount.setText("Amount");
            amount.setForeground(new Color (153, 153, 153));
        }
    }

    private void extraFocusGained(java.awt.event.FocusEvent evt) {
        if(extra.getText().trim().equals("Extra notes"))
        {
            extra.setText("");
        }
    }
}
```

```
        extra.setForeground(Color.black);
    }
}
```

```
private void extraFocusLost(java.awt.event.FocusEvent evt) {
    if(extra.getText().trim().equals("") || extra.getText().trim().equals("Extra notes"))
    {
        extra.setText("Extra notes");
        extra.setForeground(new Color (153, 153, 153));
    }
}
```

```
private void saveMouseClicked(java.awt.event.MouseEvent evt) {
    DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
    String s = df.format(jDateChooser.getDate());
    String t = "E";
    String u = username.getText();
    Float amt = Float.parseFloat(amount.getText());
    String ex = extra.getText();
    String cat = cat_combo_ex.getSelectedItem().toString();
    try{
```

```
        Class.forName("java.sql.Driver");
        Connection con1 =
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");
        Statement stmt1 = con1.createStatement();
```

```
String q = "Insert into user_data(User_Name, Type, Date, Cat_Name,Amount,ExtraNotes)
values('"+u+"','"+t+"','"+s+"','"+cat+"','"+amt+"','"+ex+"');";
```

```
if(stmt1.executeUpdate(q)!=0)
```

```
{
```

```
    JOptionPane.showMessageDialog(null, "Information Added");
```

```
    this.dispose();
```

```
}
```

```
else{
```

```
    JOptionPane.showMessageDialog(null, "Something went wrong");
```

```
}
```

```
}
```

```
catch(Exception e1)
```

```
{
```

```
    JOptionPane.showMessageDialog(null, "Error in connectivity1 trialll");
```

```
}
```

```
}
```

```
private void cat_combo_exFocusGained(java.awt.event.FocusEvent evt) {
```

```
}
```

```
private void formWindowOpened(java.awt.event.WindowEvent evt) {
```

```
SimpleDateFormat df = new SimpleDateFormat("yyyy-MM-dd");

Date d = new Date();

jDateChooser.setDate(d);

String us = username.getText();

DefaultComboBoxModel cat_ex = new DefaultComboBoxModel();

try{

    Class.forName("java.sql.Driver");

    Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

    Statement stmt = con.createStatement();

    String q = "Select Name from categories where Type ='E' AND User_Name = '"+us+"'";

    ResultSet rs = stmt.executeQuery(q);

    while(rs.next()){

        String e1 = rs.getString("Name");

        cat_ex.addElement(e1);

        cat_combo_ex.setModel(cat_ex);

    }

    if(cat_combo_ex.getItemCount()<1){

        JOptionPane.showMessageDialog(null, "Please add a category first");

        this.dispose();

    }

}

catch(Exception e)

{
```

```
        JOptionPane.showMessageDialog(null, "Error while establishing connection");
    }
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {

    try {

        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {

            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());

                break;

            }

        }

    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(Expense.class.getName()).log(java.util.logging.Level.SEVERE, null,
            ex);

    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Expense.class.getName()).log(java.util.logging.Level.SEVERE, null,
            ex);

    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(Expense.class.getName()).log(java.util.logging.Level.SEVERE, null,
            ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```



```
java.util.logging.Logger.getLogger(Expense.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
```

```
}
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

```
        new Expense().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
}
```

INCOME.JAVA

```
import java.awt.Color;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.ResultSet;
```

```
import java.sql.Statement;
```

```
import java.text.DateFormat;
```

```
import java.text.SimpleDateFormat;
```

```
import java.util.Date;
```

```
import javax.swing.DefaultComboBoxModel;
```

```
import javax.swing.JFrame;
```

```
import javax.swing.JOptionPane;

public class Income extends javax.swing.JFrame {

    /**
     * Creates new form Income
     */
    public Income() {
        initComponents();
        this.setLocationRelativeTo(null);
    }

    public Income(String u){
        initComponents();
        this.setLocationRelativeTo(null);
        //String verify_u = u;
        username.setText(u);
    }
    /**
     @SuppressWarnings("unchecked")
     // <editor-fold defaultstate="collapsed" desc="Generated Code">
     private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jPanel2 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
```

```
min = new javax.swing.JLabel();

close = new javax.swing.JLabel();

username = new javax.swing.JLabel();

user1 = new javax.swing.JLabel();

jDateChooser = new com.toedter.calendar.JDateChooser();

amount = new javax.swing.JTextField();

jScrollPane1 = new javax.swing.JScrollPane();

extra = new javax.swing.JTextArea();

save = new javax.swing.JButton();

cat_combo_in = new javax.swing.JComboBox<>();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setUndecorated(true);

addWindowListener(new java.awt.event.WindowAdapter() {

    public void windowOpened(java.awt.event.WindowEvent evt) {

        formWindowOpened(evt);

    }

});


jPanel1.setBackground(new java.awt.Color(204, 102, 255));

jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));

jPanel1.setLayout(new java.awt.BorderLayout());


jPanel3.setBackground(new java.awt.Color(255, 204, 255));


jPanel2.setBackground(new java.awt.Color(102, 0, 102));
```

```
jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Income - Your Earnings");

min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
min.setForeground(new java.awt.Color(255, 255, 255));
min.setText("-");
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
min.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        minMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        minMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        minMouseExited(evt);
    }
});

close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
```

```
        closeMouseClicked(evt);
    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {
        closeMouseExited(evt);
    }
});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(117, 117, Short.MAX_VALUE)
            .addComponent(jLabel1)
            .addGap(75, 75, 75)
            .addComponent(min)
            .addGap(18, 18, 18)
            .addComponent(close)
            .addGap(15, 15, 15)
        )
);
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(117, 117, Short.MAX_VALUE)
            .addComponent(jLabel1)
            .addGap(75, 75, 75)
            .addComponent(min)
            .addGap(18, 18, 18)
            .addComponent(close)
            .addGap(15, 15, 15)
        )
);
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()

        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(min)
            .addComponent(close))
        .addGap(0, 11, Short.MAX_VALUE))
    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 36,
Short.MAX_VALUE))
    .addContainerGap())
);

username.setFont(new java.awt.Font("Comic Sans MS", 0, 24)); // NOI18N
username.setForeground(new java.awt.Color(102, 0, 102));

user1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icons8-user-40.png"))); //
NOI18N

jDateChooser.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N

amount.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
amount.setForeground(new java.awt.Color(153, 153, 153));
amount.setText("Amount");
amount.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        amountFocusGained(evt);
    }
}
```

```
        public void focusLost(java.awt.event.FocusEvent evt) {  
            amountFocusLost(evt);  
        }  
    });  
  
    extra.setColumns(20);  
    extra.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N  
    extra.setForeground(new java.awt.Color(153, 153, 153));  
    extra.setRows(5);  
    extra.setText("Extra notes\n");  
    extra.addFocusListener(new java.awt.event.FocusAdapter() {  
        public void focusGained(java.awt.event.FocusEvent evt) {  
            extraFocusGained(evt);  
        }  
        public void focusLost(java.awt.event.FocusEvent evt) {  
            extraFocusLost(evt);  
        }  
    });  
    jScrollPane1.setViewportViewView(extra);  
  
    save.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N  
    save.setText("SAVE");  
    save.addMouseListener(new java.awt.event.MouseAdapter() {  
        public void mouseClicked(java.awt.event.MouseEvent evt) {  
            saveMouseClicked(evt);  
        }  
    });
```

```
cat_combo_in.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
cat_combo_in.setForeground(new java.awt.Color(153, 153, 153));

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(33, 33, 33)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addComponent(user1)
                        .addPreferredGap(LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(username, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                    .addComponent(jDateChooser, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)
                    .addComponent(amount, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)
                    .addComponent(jScrollPane1)
                    .addComponent(cat_combo_in, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))
            .addGroup(jPanel3Layout.createSequentialGroup()
```



```
.addGap(146, 146, 146)

.addComponent(save, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addContainerGap(44, Short.MAX_VALUE))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup())

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(user1)

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addComponent(jDateChooser, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(cat_combo_in, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(amount, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(save)
```

```
.addContainerGap()

);

jPanel1.add(jPanel3, java.awt.BorderLayout.CENTER);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

pack();
} // </editor-fold>

private void minMouseClicked(java.awt.event.MouseEvent evt) {
    // minimise the form
    this.setState(JFrame.ICONIFIED);
}

private void minMouseEntered(java.awt.event.MouseEvent evt) {
    min.setForeground(new Color(178, 102, 255));
}
```

```
}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(255, 255, 255));  
}
```

```
private void closeMouseClicked(java.awt.event.MouseEvent evt) {  
    //close the form  
    this.dispose();  
}
```

```
private void closeMouseEntered(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(178, 102, 255));  
}
```

```
private void closeMouseExited(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(255, 255, 255));  
}
```

```
private void amountFocusGained(java.awt.event.FocusEvent evt) {  
    if(amount.getText().trim().equals("Amount"))  
    {  
        amount.setText("");  
        amount.setForeground(Color.black);  
    }  
}
```

```
private void amountFocusLost(java.awt.event.FocusEvent evt) {  
    if(amount.getText().trim().equals("") || amount.getText().trim().equals("Amount"))  
    {  
        amount.setText("Amount");  
        amount.setForeground(new Color (153, 153, 153));  
    }  
}
```

```
private void extraFocusGained(java.awt.event.FocusEvent evt) {  
    if(extra.getText().trim().equals("Extra notes"))  
    {  
        extra.setText("");  
        extra.setForeground(Color.black);  
    }  
}
```

```
private void extraFocusLost(java.awt.event.FocusEvent evt) {  
    if(extra.getText().trim().equals("") || extra.getText().trim().equals("Extra notes"))  
    {  
        extra.setText("Extra notes");  
        extra.setForeground(new Color (153, 153, 153));  
    }  
}
```

```
private void formWindowOpened(java.awt.event.WindowEvent evt) {  
    SimpleDateFormat df = new SimpleDateFormat("yyyy-MM-dd");  
    Date d = new Date();
```

```
jDateChooser.setDate(d);

String us = username.getText();

DefaultComboBoxModel cat_in = new DefaultComboBoxModel();

try{

    Class.forName("java.sql.Driver");

    Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

    Statement stmt = con.createStatement();

    String q = "Select Name from categories where Type ='I' AND User_Name = '"+us+"'";

    ResultSet rs = stmt.executeQuery(q);

    while(rs.next()){

        String e1 = rs.getString("Name");

        cat_in.addElement(e1);

        cat_combo_in.setModel(cat_in);

    }

    if(cat_combo_in.getItemCount()<1){

        JOptionPane.showMessageDialog(null, "Please add a category first");

        this.dispose();

    }

}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection");

}

}
```

```
private void saveMouseClicked(java.awt.event.MouseEvent evt) {  
  
    DateFormat df = new SimpleDateFormat("yyyy-MM-dd");  
  
    String s = df.format(jDateChooser.getDate());  
  
    String t = "I";  
  
    String u = username.getText();  
  
    Float amt = Float.parseFloat(amount.getText());  
  
    String ex = extra.getText();  
  
    String cat = cat_combo_in.getSelectedItem().toString();  
  
    try{  
  
        Class.forName("java.sql.Driver");  
  
        Connection con1 =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");  
  
        Statement stmt1 = con1.createStatement();  
  
        String q = "Insert into user_data(User_Name, Type, Date, Cat_Name,Amount,ExtraNotes)  
values('"+u+"','"+t+"','"+s+"','"+cat+"','"+amt+"','"+ex+"')";  
  
        if(stmt1.executeUpdate(q)!=0)  
        {  
            JOptionPane.showMessageDialog(null, "Information Added");  
            this.dispose();  
        }  
        else{  
            JOptionPane.showMessageDialog(null, "Something went wrong");  
        }  
    }  
}
```

```
        catch(Exception e1)
        {
            JOptionPane.showMessageDialog(null, "Error in connectivity1");
        }

    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Income.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Income.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Income.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Income.class.getName()).log(java.util.logging.Level.SEVERE,
                null, ex);
        }
    }
}
```

```
/* Create and display the form */  
  
java.awt.EventQueue.invokeLater(new Runnable() {  
  
    public void run() {  
  
        new Income().setVisible(true);  
  
    }  
  
});  
  
}  
  
}
```

SAVINGS.JAVA

```
import java.awt.Color;  
  
import java.sql.Connection;  
  
import java.sql.DriverManager;  
  
import java.sql.ResultSet;  
  
import java.sql.Statement;  
  
import java.text.DateFormat;  
  
import java.text.SimpleDateFormat;  
  
import java.util.Date;  
  
import javax.swing.DefaultComboBoxModel;  
  
import javax.swing.JFrame;  
  
import javax.swing.JOptionPane;  
  
public class saving extends javax.swing.JFrame {  
  
    /**  
     * Creates new form saving
```



```
*/  
  
public saving() {  
    initComponents();  
}  
  
public saving(String u){  
    initComponents();  
    this.setLocationRelativeTo(null);  
    //String verify_u = u;  
    username.setText(u);  
}  
  
@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated Code">  
private void initComponents() {  
  
    jPanel1 = new javax.swing.JPanel();  
    jPanel3 = new javax.swing.JPanel();  
    jPanel2 = new javax.swing.JPanel();  
    jLabel1 = new javax.swing.JLabel();  
    min = new javax.swing.JLabel();  
    close = new javax.swing.JLabel();  
    username = new javax.swing.JLabel();  
    user1 = new javax.swing.JLabel();  
    jDateChooser = new com.toedter.calendar.JDateChooser();  
    amount = new javax.swing.JTextField();  
    jScrollPane1 = new javax.swing.JScrollPane();  
    extra = new javax.swing.JTextArea();
```

```
save = new javax.swing.JButton();

cat_combo_sv = new javax.swing.JComboBox<>();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setUndecorated(true);

addWindowListener(new java.awt.event.WindowAdapter() {

    public void windowOpened(java.awt.event.WindowEvent evt) {

        formWindowOpened(evt);

    }

});

jPanel1.setBackground(new java.awt.Color(204, 102, 255));

jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));

jPanel1.setLayout(new java.awt.BorderLayout());

jPanel3.setBackground(new java.awt.Color(255, 204, 255));

jPanel2.setBackground(new java.awt.Color(102, 0, 102));

jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Your Savings");

min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
min.setForeground(new java.awt.Color(255, 255, 255));
min.setText("-");
```

```
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

min.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        minMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        minMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        minMouseExited(evt);

    }

});

close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        closeMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        closeMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        closeMouseExited(evt);

    }

})
```

```
});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(154, 154, 154)
            .addComponent(jLabel1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(min)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(close)
            .addGap(15, 15, 15))
        );
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(min)
                .addComponent(close)
                .addGap(0, 11, Short.MAX_VALUE))
        );
```

```
.addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 36,
Short.MAX_VALUE))

.addContainerGap()

);

username.setFont(new java.awt.Font("Comic Sans MS", 0, 24)); // NOI18N
username.setForeground(new java.awt.Color(102, 0, 102));

user1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icons8-user-40.png"))); //
NOI18N

jDateChooser.setDateFormatString("yyyy-MM-dd");
jDateChooser.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N

amount.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
amount.setForeground(new java.awt.Color(153, 153, 153));
amount.setText("Amount");
amount.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        amountFocusGained(evt);
    }
    public void focusLost(java.awt.event.FocusEvent evt) {
        amountFocusLost(evt);
    }
});

extra.setColumns(20);
extra.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
```

```
extra.setForeground(new java.awt.Color(153, 153, 153));

extra.setRows(5);

extra.setText("Extra notes\n");

extra.addFocusListener(new java.awt.event.FocusAdapter() {

    public void focusGained(java.awt.event.FocusEvent evt) {

        extraFocusGained(evt);

    }

    public void focusLost(java.awt.event.FocusEvent evt) {

        extraFocusLost(evt);

    }

});

jScrollPane1.setViewportViewView(extra);


save.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N

save.setText("SAVE");

save.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        saveMouseClicked(evt);

    }

});


cat_combo_sv.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N

cat_combo_sv.setForeground(new java.awt.Color(153, 153, 153));

cat_combo_sv.addFocusListener(new java.awt.event.FocusAdapter() {

    public void focusGained(java.awt.event.FocusEvent evt) {

        cat_combo_svFocusGained(evt);

    }

})
```

```
});

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addComponent(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel3Layout.createSequentialGroup()
                            .addGap(33, 33, 33)
                        )
                    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addGroup(jPanel3Layout.createSequentialGroup()
                            .addComponent(user1)
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                            .addComponent(username, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        )
                        .addGroup(jPanel3Layout.createSequentialGroup()
                            .addComponent(jDateChooser, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)
                            .addComponent(amount, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)
                            .addComponent(jScrollPane1)
                            .addComponent(cat_combo_sv, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))
                        .addGroup(jPanel3Layout.createSequentialGroup()
                            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(jPanel3Layout.createSequentialGroup()
                                    .addGap(138, 138, 138)
                                )
                            )
                        )
                    )
                )
            )
        )
    );
}
```

```
.addComponent(save, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup())

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(user1)

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addComponent(jDateChooser, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(cat_combo_sv, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(amount, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(save)

.addContainerGap(20, Short.MAX_VALUE))
```



```
);

jPanel1.add(jPanel3, java.awt.BorderLayout.CENTER);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

pack();
} // </editor-fold>

private void minMouseClicked(java.awt.event.MouseEvent evt) {
    // minimise the form
    this.setState(JFrame.ICONIFIED);
}

private void minMouseEntered(java.awt.event.MouseEvent evt) {
    min.setForeground(new Color(178, 102, 255));
}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(255, 255, 255));  
}
```

```
private void closeMouseClicked(java.awt.event.MouseEvent evt) {  
    //close the form  
    this.dispose();  
}
```

```
private void closeMouseEntered(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(178, 102, 255));  
}
```

```
private void closeMouseExited(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(255, 255, 255));  
}
```

```
private void amountFocusGained(java.awt.event.FocusEvent evt) {  
    if(amount.getText().trim().equals("Amount"))  
    {  
        amount.setText("");  
        amount.setForeground(Color.black);  
    }  
}
```

```
private void amountFocusLost(java.awt.event.FocusEvent evt) {
```

```
if(amount.getText().trim().equals("") || amount.getText().trim().equals("Amount"))
{
    amount.setText("Amount");
    amount.setForeground(new Color (153, 153, 153));
}
}
```

```
private void extraFocusGained(java.awt.event.FocusEvent evt) {
    if(extra.getText().trim().equals("Extra notes"))
    {
        extra.setText("");
        extra.setForeground(Color.black);
    }
}
```

```
private void extraFocusLost(java.awt.event.FocusEvent evt) {
    if(extra.getText().trim().equals("") || extra.getText().trim().equals("Extra notes"))
    {
        extra.setText("Extra notes");
        extra.setForeground(new Color (153, 153, 153));
    }
}
```

```
private void saveMouseClicked(java.awt.event.MouseEvent evt) {
    DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
    String s = df.format(jDateChooser.getDate());
    String t = "S";
```

```
String u = username.getText();

Float amt = Float.parseFloat(amount.getText());

String ex = extra.getText();

String cat = cat_combo_sv.getSelectedItem().toString();

try{

    Class.forName("java.sql.Driver");

    Connection con1 =
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");

    Statement stmt1 = con1.createStatement();

    String q = "Insert into user_data(User_Name, Type, Date, Cat_Name,Amount,ExtraNotes)
values('"+u+"','"+t+"','"+s+"','"+cat+"','"+amt+"','"+ex+"')";

    if(stmt1.executeUpdate(q)!=0)

    {

        JOptionPane.showMessageDialog(null, "Information Added");

        this.dispose();

    }

    else{

        JOptionPane.showMessageDialog(null, "Something went wrong");

    }

}

catch(Exception e1)

{

    JOptionPane.showMessageDialog(null, "Error in connectivity1");

}
```

```
}

private void cat_combo_svFocusGained(java.awt.event.FocusEvent evt) {

}

private void formWindowOpened(java.awt.event.WindowEvent evt) {

    SimpleDateFormat df = new SimpleDateFormat("yyyy-MM-dd");

    Date d = new Date();

    jDateChooser.setDate(d);

    String us = username.getText();

    DefaultComboBoxModel cat_sv = new DefaultComboBoxModel();

    try{

        Class.forName("java.sql.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement stmt = con.createStatement();

        String q = "Select Name from categories where Type ='S' AND User_Name = '"+us+"'";

        ResultSet rs = stmt.executeQuery(q);

        while(rs.next()){

            String e1 = rs.getString("Name");

            cat_sv.addElement(e1);

            cat_combo_sv.setModel(cat_sv);

        }

    }
```

```
        if(cat_combo_sv.getItemCount()<1){

            JOptionPane.showMessageDialog(null, "Please add a category first");

            this.dispose();

        }

    }

    catch(Exception e)

        {

            JOptionPane.showMessageDialog(null, "Error while establishing connection");

        }

    }

    public static void main(String args[]) {

        try {

            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

                if ("Nimbus".equals(info.getName())) {

                    javax.swing.UIManager.setLookAndFeel(info.getClassName());

                    break;

                }

            }

        } catch (ClassNotFoundException ex) {

            java.util.logging.Logger.getLogger(saving.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

        } catch (InstantiationException ex) {

            java.util.logging.Logger.getLogger(saving.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

        } catch (IllegalAccessException ex) {

            java.util.logging.Logger.getLogger(saving.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

        }

    }

}
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

        java.util.logging.Logger.getLogger(saving.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

    }

//</editor-fold>

/* Create and display the form */

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        new saving().setVisible(true);

    }

});

}

}
```

HOMEPAGE.JAVA

```
import java.awt.Color;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import java.text.DateFormat;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.time.LocalDate;
```

```
import java.time.LocalDateTime;

import java.time.Month;

import java.util.Calendar;

import java.util.Date;

import java.util.concurrent.TimeUnit;

import java.util.logging.Level;

import java.util.logging.Logger;


import javax.swing.*;

import javax.swing.border.Border;

import javax.swing.table.DefaultTableModel;

import javax.swing.event.ListSelectionEvent;

import javax.swing.event.ListSelectionListener;


import org.jfree.chart.ChartFactory;

import org.jfree.chart.ChartFrame;

import org.jfree.chart.ChartPanel;

import org.jfree.chart.JFreeChart;

import org.jfree.chart.plot.CategoryPlot;

import org.jfree.chart.plot.PiePlot;

import org.jfree.chart.plot.PiePlot3D;

import org.jfree.chart.plot.PlotOrientation;

import org.jfree.data.category.DefaultCategoryDataset;

import org.jfree.data.general.DefaultPieDataset;

import org.jfree.data.general.PieDataset;

import org.jfree.util.Rotation;
```



```
public class HomePage extends javax.swing.JFrame {
```

```
    /**
```

```
     * Creates new form HomePage
```

```
     */
```

```
    public HomePage() {
```

```
        initComponents();
```

```
        this.setLocationRelativeTo(null);
```

```
    }
```

```
    public HomePage(String u){
```

```
        initComponents();
```

```
        this.setLocationRelativeTo(null);
```

```
        //String verify_u = u;
```

```
        jScrollPane8.setVisible(false);
```

```
        pname.setText(u);
```

```
        storeData obj = new storeData();
```

```
        obj.storeUsername(u);
```

```
        popicon.setVisible(false);
```

```
        todayis.setText(""+LocalDate.now());
```

```
        //PopUp();
```

```
}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

    buttonGroup1 = new javax.swing.ButtonGroup();

    jPanel8 = new javax.swing.JPanel();

    jPanel7 = new javax.swing.JPanel();

    cal = new javax.swing.JLabel();

    user = new javax.swing.JLabel();

    cat = new javax.swing.JPanel();

    jLabel9 = new javax.swing.JLabel();

    jLabel1 = new javax.swing.JLabel();

    sp = new javax.swing.JPanel();

    jLabel5 = new javax.swing.JLabel();

    jLabel2 = new javax.swing.JLabel();

    stats = new javax.swing.JPanel();

    jLabel7 = new javax.swing.JLabel();

    jLabel6 = new javax.swing.JLabel();

    tr = new javax.swing.JPanel();

    jLabel10 = new javax.swing.JLabel();

    jLabel4 = new javax.swing.JLabel();

    interval = new javax.swing.JLabel();

    jLabel18 = new javax.swing.JLabel();

    remindertitle = new javax.swing.JPanel();

    jLabel20 = new javax.swing.JLabel();
```

```
jLabel21 = new javax.swing.JLabel();  
popicon = new javax.swing.JLabel();  
jPanel5 = new javax.swing.JPanel();  
jPanel2 = new javax.swing.JPanel();  
close = new javax.swing.JLabel();  
min = new javax.swing.JLabel();  
jLabel3 = new javax.swing.JLabel();  
centre = new javax.swing.JPanel();  
starting = new javax.swing.JPanel();  
jLabel15 = new javax.swing.JLabel();  
categories = new javax.swing.JPanel();  
expense_panel = new javax.swing.JPanel();  
expense_label = new javax.swing.JLabel();  
income_panel = new javax.swing.JPanel();  
income_label = new javax.swing.JLabel();  
jPanel3 = new javax.swing.JPanel();  
in_panel = new javax.swing.JPanel();  
jScrollPane2 = new javax.swing.JScrollPane();  
in_list = new javax.swing.JList<>();  
ex_panel = new javax.swing.JPanel();  
jScrollPane1 = new javax.swing.JScrollPane();  
ex_list = new javax.swing.JList<>();  
sv_panel = new javax.swing.JPanel();  
jScrollPane4 = new javax.swing.JScrollPane();  
sv_list = new javax.swing.JList<>();  
savings_panel = new javax.swing.JPanel();  
savings_label = new javax.swing.JLabel();
```

```
rem_cat = new javax.swing.JLabel();  
add_cat = new javax.swing.JLabel();  
profile = new javax.swing.JPanel();  
jPanel1 = new javax.swing.JPanel();  
pname = new javax.swing.JLabel();  
user1 = new javax.swing.JLabel();  
jLabel8 = new javax.swing.JLabel();  
name = new javax.swing.JLabel();  
jLabel11 = new javax.swing.JLabel();  
email1 = new javax.swing.JLabel();  
cp = new javax.swing.JButton();  
jLabel12 = new javax.swing.JLabel();  
cu = new javax.swing.JButton();  
spendings = new javax.swing.JPanel();  
expense_button = new javax.swing.JButton();  
income_button = new javax.swing.JButton();  
right = new javax.swing.JLabel();  
left = new javax.swing.JLabel();  
time = new javax.swing.JLabel();  
Budget_pb = new javax.swing.JProgressBar();  
jLabel13 = new javax.swing.JLabel();  
jLabel14 = new javax.swing.JLabel();  
getBudget = new javax.swing.JLabel();  
getSavings = new javax.swing.JLabel();  
jScrollPane3 = new javax.swing.JScrollPane();  
user_data_table = new javax.swing.JTable();  
total = new javax.swing.JLabel();
```

```
tb = new javax.swing.JLabel();

savings_button = new javax.swing.JButton();

jLabel16 = new javax.swing.JLabel();

getExpense = new javax.swing.JLabel();

Expense_pb = new javax.swing.JProgressBar();

savings_pb = new javax.swing.JProgressBar();

jLabel17 = new javax.swing.JLabel();

sum = new javax.swing.JLabel();

transactions = new javax.swing.JPanel();

jScrollPane5 = new javax.swing.JScrollPane();

trtable = new javax.swing.JTable();

time2 = new javax.swing.JLabel();

left2 = new javax.swing.JLabel();

right2 = new javax.swing.JLabel();

update = new javax.swing.JButton();

stat = new javax.swing.JPanel();

left1 = new javax.swing.JLabel();

right1 = new javax.swing.JLabel();

time1 = new javax.swing.JLabel();

pie_radio = new javax.swing.JRadioButton();

bar_radio = new javax.swing.JRadioButton();

jLabel19 = new javax.swing.JLabel();

reminderpanel = new javax.swing.JPanel();

jLabel22 = new javax.swing.JLabel();

jLabel23 = new javax.swing.JLabel();

eventcombo = new javax.swing.JComboBox<>();

addevent = new javax.swing.JLabel();
```

```
removeevent = new javax.swing.JLabel();

jScrollPane6 = new javax.swing.JScrollPane();

eventlist = new javax.swing.JList<>();

eventdata = new javax.swing.JPanel();

jLabel24 = new javax.swing.JLabel();

edate = new javax.swing.JLabel();

datelabel = new javax.swing.JLabel();

ename2 = new javax.swing.JLabel();

jScrollPane7 = new javax.swing.JScrollPane();

daystogo = new javax.swing.JTextArea();

eventdate = new javax.swing.JLabel();

todayis = new javax.swing.JLabel();

jScrollPane8 = new javax.swing.JScrollPane();

coming = new javax.swing.JTextArea();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setUndecorated(true);

addWindowListener(new java.awt.event.WindowAdapter() {

    public void windowOpened(java.awt.event.WindowEvent evt) {

        formWindowOpened(evt);

    }

});


jPanel8.setBackground(new java.awt.Color(255, 255, 255));

jPanel8.setBorder(javax.swing.BorderFactory.createMatteBorder(3, 3, 3, 3, new
java.awt.Color(255, 255, 255)));

jPanel8.setLayout(new java.awt.BorderLayout());
```

```
jPanel7.setBackground(new java.awt.Color(51, 0, 51));

jPanel7.setPreferredSize(new java.awt.Dimension(260, 530));


cal.setIcon(new javax.swing.ImageIcon(getClass().getResource("/new-cal.png"))); // NOI18N
cal.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
cal.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        HomePage.this.mouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        calMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        calMouseExited(evt);
    }
});


user.setIcon(new javax.swing.ImageIcon(getClass().getResource("/usenew.png"))); // NOI18N
user.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
user.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        HomePage.this.mouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        userMouseEntered(evt);
    }
});
```

```
        public void mouseExited(java.awt.event.MouseEvent evt) {  
            userMouseExited(evt);  
        }  
    }  
});
```

```
cat.setBackground(new java.awt.Color(102, 0, 102));  
cat.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        HomePage.this.mouseClicked(evt);  
    }  
    public void mouseEntered(java.awt.event.MouseEvent evt) {  
        catMouseEntered(evt);  
    }  
    public void mouseExited(java.awt.event.MouseEvent evt) {  
        catMouseExited(evt);  
    }  
});
```

```
jLabel9.setFont(new java.awt.Font("Tekton Pro", 1, 24)); // NOI18N  
jLabel9.setForeground(new java.awt.Color(255, 255, 255));  
jLabel9.setText("CATEGORIES");  
jLabel9.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/plus1.png"))); // NOI18N
```

```
javax.swing.GroupLayout catLayout = new javax.swing.GroupLayout(cat);  
cat.setLayout(catLayout);
```



```
catLayout.setHorizontalGroup(  
    catLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(catLayout.createSequentialGroup()  
        .addGap(27, 27, 27)  
        .addComponent(jLabel1)  
        .addGap(32, 32, 32)  
        .addComponent(jLabel9)  
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))  
    );  
catLayout.setVerticalGroup(  
    catLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(catLayout.createSequentialGroup()  
        .addContainerGap()  
        .addGroup(catLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
            .addComponent(jLabel1)  
            .addComponent(jLabel9))  
        .addContainerGap(13, Short.MAX_VALUE))  
    );  
  
sp.setBackground(new java.awt.Color(102, 0, 102));  
sp.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
sp.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        HomePage.this.mouseClicked(evt);  
    }  
    public void mouseEntered(java.awt.event.MouseEvent evt) {  
        spMouseEntered(evt);  
    }  
});
```

```
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        spMouseExited(evt);

    }

});

jLabel5.setFont(new java.awt.Font("Tekton Pro", 1, 24)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("MONEY");

jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/rupee1.png"))); // NOI18N

javax.swing.GroupLayout spLayout = new javax.swing.GroupLayout(sp);
sp.setLayout(spLayout);
spLayout.setHorizontalGroup(
    spLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(spLayout.createSequentialGroup()
            .addGap(28, 28, 28)
            .addComponent(jLabel2)
            .addGap(32, 32, 32)
            .addComponent(jLabel5)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, Short.MAX_VALUE)
        )
);
spLayout.setVerticalGroup(
    spLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(spLayout.createSequentialGroup()
            .addGap(28, 28, 28)
            .addComponent(jLabel2)
            .addGap(32, 32, 32)
            .addComponent(jLabel5)
            .addGap(28, 28, 28)
        )
);
```

```
.addGroup(spLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(jLabel5)

    .addComponent(jLabel2))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);
```

```
stats.setBackground(new java.awt.Color(102, 0, 102));

stats.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        HomePage.this.mouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        statsMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        statsMouseExited(evt);

    }

});
```

```
jLabel7.setFont(new java.awt.Font("Tekton Pro", 1, 24)); // NOI18N
jLabel7.setForeground(new java.awt.Color(255, 255, 255));
jLabel7.setText("STATS");
jLabel7.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/st.png"))); // NOI18N
```

```
javax.swing.GroupLayout statsLayout = new javax.swing.GroupLayout(stats);
```

```
stats.setLayout(statsLayout);

statsLayout.setHorizontalGroup(

    statsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(statsLayout.createSequentialGroup()

            .addGap(30, 30, 30)

            .addComponent(jLabel6)

            .addGap(33, 33, 33)

            .addComponent(jLabel7)

            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

        );

statsLayout.setVerticalGroup(

    statsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(statsLayout.createSequentialGroup()

            .addContainerGap()

            .addGroup(statsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addComponent(jLabel7)

                .addComponent(jLabel6))

            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

        );

tr.setBackground(new java.awt.Color(102, 0, 102));

tr.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        HomePage.this.mouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        trMouseEntered(evt);

    }

});
```

```
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        trMouseExited(evt);

    }

});

jLabel10.setFont(new java.awt.Font("Tekton Pro", 1, 24)); // NOI18N
jLabel10.setForeground(new java.awt.Color(255, 255, 255));
jLabel10.setText("TRANSACTIONS");
jLabel10.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/trans.png"))); // NOI18N

javax.swing.GroupLayout trLayout = new javax.swing.GroupLayout(tr);
tr.setLayout(trLayout);
trLayout.setHorizontalGroup(
    trLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, trLayout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jLabel4)
            .addGap(32, 32, 32)
            .addComponent(jLabel10)
            .addGap(10, 10, 10))
);
trLayout.setVerticalGroup(
    trLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(trLayout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jLabel4)
            .addGap(10, 10, 10)
            .addComponent(jLabel10)
            .addGap(10, 10, 10))
);
```

```
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(trLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(jLabel4)

    .addComponent(jLabel10))

.addContainerGap())

);

interval.setFont(new java.awt.Font("Cambria", 0, 14)); // NOI18N
interval.setForeground(new java.awt.Color(255, 255, 255));
interval.setText("Monthly");

jLabel18.setFont(new java.awt.Font("Cambria", 0, 14)); // NOI18N
jLabel18.setForeground(new java.awt.Color(255, 255, 255));
jLabel18.setText("Log Out");
jLabel18.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jLabel18.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jLabel18MouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        jLabel18MouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        jLabel18MouseExited(evt);
    }
});
```

```
remindertitle.setBackground(new java.awt.Color(102, 0, 102));

remindertitle.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        HomePage.this.mouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        remindertitleMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        remindertitleMouseExited(evt);

    }

});

jLabel20.setFont(new java.awt.Font("Tekton Pro", 1, 24)); // NOI18N
jLabel20.setForeground(new java.awt.Color(255, 255, 255));
jLabel20.setText("REMINDER");
jLabel20.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jLabel21.setIcon(new javax.swing.ImageIcon(getClass().getResource("/st.png"))); // NOI18N

popicon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/church-bell-icon-5_2.png"))); // NOI18N
popicon.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        popiconMouseClicked(evt);

    }

});
```

```
javax.swing.GroupLayout remindertitleLayout = new javax.swing.GroupLayout(remindertitle);
remindertitle.setLayout(remindertitleLayout);
remindertitleLayout.setHorizontalGroup(
    remindertitleLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(remindertitleLayout.createSequentialGroup()
            .addGap(30, 30, 30)
            .addComponent(jLabel21)
            .addGap(33, 33, 33)
            .addComponent(jLabel20)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(popicon)
            .addGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
remindertitleLayout.setVerticalGroup(
    remindertitleLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(remindertitleLayout.createSequentialGroup()
            .addGap(30, 30, 30)
            .addComponent(jLabel20)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(popicon)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel21)
            .addGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
```



```

javax.swing.GroupLayout jPanel7Layout = new javax.swing.GroupLayout(jPanel7);

jPanel7.setLayout(jPanel7Layout);

jPanel7Layout.setHorizontalGroup(

    jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(cat, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(sp, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(stats, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(tr, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(remindertitle, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(jPanel7Layout.createSequentialGroup()

.addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel7Layout.createSequentialGroup()

                .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                    .addComponent(user)

                    .addGroup(jPanel7Layout.createSequentialGroup()

                        .addGap(18, 18, 18)

                        .addComponent(cal)

                        .addGap(18, 18, 18)

                        .addComponent(interval, javax.swing.GroupLayout.PREFERRED_SIZE, 59,
javax.swing.GroupLayout.PREFERRED_SIZE))

                    .addGroup(jPanel7Layout.createSequentialGroup()

                        .addGap(18, 18, 18)

                        .addComponent(jLabel18)))

                .addContainerGap())

            .addGap(28, 28, 28)

            .addGroup(jPanel7Layout.createSequentialGroup()

                .addGap(18, 18, 18)

                .addComponent(jLabel18)))

                .addContainerGap())

```

```
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

jPanel7Layout.setVerticalGroup(

jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel7Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addComponent(cal, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(user, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(interval, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(sp, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(tr, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(cat, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(stats, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(remindertitle, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)
```

```
.addComponent(jLabel18)

.addContainerGap()

);

jPanel8.add(jPanel7, java.awt.BorderLayout.LINE_START);

jPanel5.setPreferredSize(new java.awt.Dimension(729, 200));
jPanel5.setLayout(new java.awt.BorderLayout());

jPanel2.setBackground(new java.awt.Color(102, 0, 102));
jPanel2.setPreferredSize(new java.awt.Dimension(640, 170));

close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        closeMouseExited(evt);
    }
});
```

```
min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
min.setForeground(new java.awt.Color(255, 255, 255));
min.setText("-");
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
min.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        minMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        minMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        minMouseExited(evt);
    }
});

jLabel3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/pjtlg.png"))); // NOI18N

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
            .addGap(81, Short.MAX_VALUE)
            .addComponent(jLabel3)
```

```
.addGap(46, 46, 46)

.addComponent(min)

.addGap(26, 26, 26)

.addComponent(close)

.addGap(29, 29, 29))

);

jPanel2Layout.setVerticalGroup(

    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel2Layout.createSequentialGroup()

            .addContainerGap()

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                    .addComponent(jLabel3)

                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                            .addComponent(close)

                                .addComponent(min)))

                            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

                    );

jPanel5.add(jPanel2, java.awt.BorderLayout.PAGE_START);

centre.setLayout(new java.awt.CardLayout());

starting.setBackground(new java.awt.Color(255, 204, 255));

jLabel15.setFont(new java.awt.Font("Tekton Pro", 0, 24)); // NOI18N

jLabel15.setText("Welcome!");
```

```
javax.swing.GroupLayout startingLayout = new javax.swing.GroupLayout(starting);
starting.setLayout(startingLayout);
startingLayout.setHorizontalGroup(
    startingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(startingLayout.createSequentialGroup()
            .addGap(34, 34, 34)
            .addComponent(jLabel15)
            .addGap(507, Short.MAX_VALUE))
        );
startingLayout.setVerticalGroup(
    startingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(startingLayout.createSequentialGroup()
            .addGap(21, 21, 21)
            .addComponent(jLabel15)
            .addGap(10, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );

centre.add(starting, "card7");

categories.setBackground(new java.awt.Color(255, 204, 255));
categories.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        HomePage.this.mouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        categoriesMouseExited(evt);
    }
});
```

```
    }  
});
```

```
expense_panel.setBackground(new java.awt.Color(102, 0, 102));  
expense_panel.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        ex_in_svmouseClicked(evt);  
    }  
    public void mouseEntered(java.awt.event.MouseEvent evt) {  
        expense_panelMouseEntered(evt);  
    }  
    public void mouseExited(java.awt.event.MouseEvent evt) {  
        expense_panelMouseExited(evt);  
    }  
});
```

```
expense_label.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N  
expense_label.setForeground(new java.awt.Color(255, 255, 255));  
expense_label.setText("Expense");
```

```
javax.swing.GroupLayout expense_panelLayout = new  
javax.swing.GroupLayout(expense_panel);  
  
expense_panel.setLayout(expense_panelLayout);  
expense_panelLayout.setHorizontalGroup(  
    expense_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
expense_panelLayout.createSequentialGroup()  
            .addContainerGap(21, Short.MAX_VALUE)
```

```
.addComponent(expense_label)

.addGap(31, 31, 31))

);

expense_panelLayout.setVerticalGroup(

expense_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(expense_panelLayout.createSequentialGroup()

.addContainerGap()

.addComponent(expense_label)

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

income_panel.setBackground(new java.awt.Color(102, 0, 102));

income_panel.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        ex_in_svmouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        income_panelMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        income_panelMouseExited(evt);

    }

});

income_label.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N

income_label.setForeground(new java.awt.Color(255, 255, 255));

income_label.setText("Income");
```



```
javax.swing.GroupLayout income_panelLayout = new javax.swing.GroupLayout(income_panel);
income_panel.setLayout(income_panelLayout);
income_panelLayout.setHorizontalGroup(
    income_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(income_panelLayout.createSequentialGroup()
            .addGap(35, 35, 35)
            .addComponent(income_label)
            .addGap(36, Short.MAX_VALUE))
        );
income_panelLayout.setVerticalGroup(
    income_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
income_panelLayout.createSequentialGroup()
            .addGap(36, Short.MAX_VALUE)
            .addComponent(income_label)
            .addGap(36, Short.MAX_VALUE))
        );

jPanel3.setLayout(new java.awt.CardLayout());

in_panel.setBackground(new java.awt.Color(255, 204, 255));

in_list.setFont(new java.awt.Font("Tekton Pro Cond", 0, 24)); // NOI18N
in_list.setForeground(new java.awt.Color(102, 0, 102));
in_list.setSelectionMode(javax.swing.ListSelectionModel.SINGLE_SELECTION);
in_list.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
jScrollPane2.setViewportViewView(in_list);

javax.swing.GroupLayout in_panelLayout = new javax.swing.GroupLayout(in_panel);
in_panel.setLayout(in_panelLayout);
in_panelLayout.setHorizontalGroup(
    in_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(in_panelLayout.createSequentialGroup()
            .addGap(107, 107, 107)
            .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 382,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(145, 145, Short.MAX_VALUE))
        );
in_panelLayout.setVerticalGroup(
    in_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(in_panelLayout.createSequentialGroup()
            .addComponent(jScrollPane2, javax.swing.GroupLayout.DEFAULT_SIZE, 283,
                Short.MAX_VALUE)
            );

jPanel3.add(in_panel, "card3");

ex_panel.setBackground(new java.awt.Color(255, 204, 255));

ex_list.setFont(new java.awt.Font("Tekton Pro Cond", 0, 24)); // NOI18N
ex_list.setForeground(new java.awt.Color(102, 0, 102));
ex_list.setModel(new javax.swing.AbstractListModel<String>() {
    String[] strings = { " " };
    public int getSize() { return strings.length; }
    public String getElementAt(int i) { return strings[i]; }
});
```

```
});

ex_list.setSelectionMode(javax.swing.ListSelectionModel.SINGLE_SELECTION);

ex_list.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jScrollPane1.setViewportView(ex_list);


javax.swing.GroupLayout ex_panelLayout = new javax.swing.GroupLayout(ex_panel);
ex_panel.setLayout(ex_panelLayout);
ex_panelLayout.setHorizontalGroup(
    ex_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(ex_panelLayout.createSequentialGroup()
            .addGap(107, 107, 107)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 384,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(143, 143, Short.MAX_VALUE))
        );
ex_panelLayout.setVerticalGroup(
    ex_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(ex_panelLayout.createSequentialGroup()
            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 283,
Short.MAX_VALUE)
            );

jPanel3.add(ex_panel, "card2");


sv_panel.setBackground(new java.awt.Color(255, 204, 255));


sv_list.setFont(new java.awt.Font("Tekton Pro Cond", 0, 24)); // NOI18N
sv_list.setForeground(new java.awt.Color(102, 0, 102));
sv_list.setSelectionMode(javax.swing.ListSelectionModel.SINGLE_SELECTION);
```

```
sv_list.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jScrollPane4.setViewportViewView(sv_list);

javax.swing.GroupLayout sv_panelLayout = new javax.swing.GroupLayout(sv_panel);
sv_panel.setLayout(sv_panelLayout);
sv_panelLayout.setHorizontalGroup(
    sv_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(sv_panelLayout.createSequentialGroup()
            .addGap(104, 104, 104)
            .addComponent(jScrollPane4, javax.swing.GroupLayout.PREFERRED_SIZE, 385,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(145, 145, Short.MAX_VALUE))
        );
sv_panelLayout.setVerticalGroup(
    sv_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(sv_panelLayout.createSequentialGroup()
            .addComponent(jScrollPane4, javax.swing.GroupLayout.DEFAULT_SIZE, 283,
                Short.MAX_VALUE)
            );

jPanel3.add(sv_panel, "card4");

savings_panel.setBackground(new java.awt.Color(102, 0, 102));
savings_panel.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        ex_in_svmouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        savings_panelMouseEntered(evt);
    }
});
```

```
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        savings_panelMouseExited(evt);

    }

});

savings_label.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N
savings_label.setForeground(new java.awt.Color(255, 255, 255));
savings_label.setText("Savings");

javax.swing.GroupLayout savings_panelLayout = new javax.swing.GroupLayout(savings_panel);
savings_panel.setLayout(savings_panelLayout);
savings_panelLayout.setHorizontalGroup(
    savings_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(savings_panelLayout.createSequentialGroup()
            .addGap(36, 36, 36)
            .addComponent(savings_label)
            .addGap(29, Short.MAX_VALUE))
);

savings_panelLayout.setVerticalGroup(
    savings_panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(savings_panelLayout.createSequentialGroup()
            .addGap(36, 36, 36)
            .addComponent(savings_label)
            .addGap(29, Short.MAX_VALUE))
);
```

```
rem_cat.setIcon(new javax.swing.ImageIcon(getClass().getResource("/minus-4-32.png"))); //
NOI18N
```

```
rem_cat.setToolTipText("remove categories");

rem_cat.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        rem_catMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        rem_catMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        rem_catMouseExited(evt);

    }

});
```

```
add_cat.setIcon(new javax.swing.ImageIcon(getClass().getResource("/plus-4-32.png"))); //
NOI18N
```

```
add_cat.setToolTipText("add categories");

add_cat.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

add_cat.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        add_catMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        add_catMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        add_catMouseExited(evt);

    }

});
```

```
    }  
    });  
  
    javax.swing.GroupLayout categoriesLayout = new javax.swing.GroupLayout(categories);  
    categories.setLayout(categoriesLayout);  
    categoriesLayout.setHorizontalGroup(  
        categoriesLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,  
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
            .addGroup(categoriesLayout.createSequentialGroup()  
                .addGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                .addComponent(expense_panel, javax.swing.GroupLayout.PREFERRED_SIZE,  
                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                .addComponent(income_panel, javax.swing.GroupLayout.PREFERRED_SIZE,  
                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                .addComponent(savings_panel, javax.swing.GroupLayout.PREFERRED_SIZE,  
                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addGap(61, 61, 61)  
                .addComponent(add_cat)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                .addComponent(rem_cat)  
                .addGap()  
            );  
    categoriesLayout.setVerticalGroup(  
        categoriesLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(categoriesLayout.createSequentialGroup()  

```

```
.addContainerGap()

.addGroup(categoriesLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(expense_panel, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(income_panel, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(savings_panel, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(rem_cat)

    .addComponent(add_cat))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addContainerGap())

);

centre.add(categories, "card4");

profile.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        profileMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        profileMouseExited(evt);

    }

});

jPanel1.setBackground(new java.awt.Color(204, 102, 255));
```



```
pname.setFont(new java.awt.Font("Comic Sans MS", 0, 24)); // NOI18N

pname.setForeground(new java.awt.Color(255, 255, 255));

user1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icons8-user-40.png"))); //
NOI18N

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(20, 20, 20)
            .addComponent(user1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(pname, javax.swing.GroupLayout.PREFERRED_SIZE, 373,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(195, 195, Short.MAX_VALUE))
        );
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(26, 26, Short.MAX_VALUE)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addComponent(pname, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(user1))
            .addGap(40, 40, Short.MAX_VALUE))
        );
```

```
.addContainerGap()  
  
);  
  
jLabel8.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N  
jLabel8.setForeground(new java.awt.Color(102, 0, 102));  
jLabel8.setText("Email:");  
  
name.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N  
name.setForeground(new java.awt.Color(153, 0, 153));  
  
jLabel11.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N  
jLabel11.setForeground(new java.awt.Color(102, 0, 102));  
jLabel11.setText("Name:");  
  
email1.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N  
email1.setForeground(new java.awt.Color(153, 0, 153));  
  
cp.setBackground(new java.awt.Color(255, 255, 255));  
cp.setFont(new java.awt.Font("Cambria", 1, 18)); // NOI18N  
cp.setForeground(new java.awt.Color(102, 0, 204));  
cp.setText("Change Password");  
cp.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
cp.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        cpMouseClicked(evt);  
    }  
    public void mouseEntered(java.awt.event.MouseEvent evt) {
```

```
        cpMouseEntered(evt);
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {
        cpMouseExited(evt);
    }
});

cp.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cpActionPerformed(evt);
    }
});

jLabel12.setFont(new java.awt.Font("Tekton Pro Cond", 1, 24)); // NOI18N
jLabel12.setForeground(new java.awt.Color(102, 0, 102));
jLabel12.setText("Settings:");

cu.setBackground(new java.awt.Color(255, 255, 255));
cu.setFont(new java.awt.Font("Cambria", 1, 18)); // NOI18N
cu.setForeground(new java.awt.Color(102, 0, 204));
cu.setText("Change Username");
cu.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
cu.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        cuMouseClicked(evt);
    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {
        cuMouseEntered(evt);
    }
});
```

```
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        cuMouseExited(evt);

    }

});

javax.swing.GroupLayout profileLayout = new javax.swing.GroupLayout(profile);

profile.setLayout(profileLayout);

profileLayout.setHorizontalGroup(

    profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(profileLayout.createSequentialGroup()

            .addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addGroup(profileLayout.createSequentialGroup()

                    .addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                        .addGroup(profileLayout.createSequentialGroup()

                            .addGroup(profileLayout.createSequentialGroup()

                                .addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                    .addGroup(profileLayout.createSequentialGroup()

                                        .addGap(38, 38, 38)

                                        .addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                            .addGroup(profileLayout.createSequentialGroup()

                                                .addComponent(jLabel12)

                                                .addGroup(profileLayout.createSequentialGroup()

                                                    .addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                                        .addGroup(profileLayout.createSequentialGroup()

                                                            .addComponent(jLabel11)

                                                            .addComponent(jLabel8))

                                                        .addGroup(profileLayout.createSequentialGroup()

                                                            .addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                                                .addGroup(profileLayout.createSequentialGroup()

                                                                    .addGroup(profileLayout.createSequentialGroup()

                                                                        .addGroup(profileLayout.createSequentialGroup()

                                                                            .addGap(20, 20, 20)
```

```
.addComponent(name, javax.swing.GroupLayout.PREFERRED_SIZE, 403,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(profileLayout.createSequentialGroup())

.addGap(18, 18, 18)

.addComponent(email1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))))

.addGroup(profileLayout.createSequentialGroup())

.addGap(153, 153, 153)

.addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(cu, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(cp, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))

.addContainerGap(126, Short.MAX_VALUE))

);

profileLayout.setVerticalGroup(

profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(profileLayout.createSequentialGroup())

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(13, 13, 13)

.addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jLabel11, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(name, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
```

```
.addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(email1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

.addGap(30, 30, 30)

.addGroup(profileLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel12)

.addComponent(cu))

.addGap(18, 18, 18)

.addComponent(cp)

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

centre.add(profile, "card6");

spendings.setBackground(new java.awt.Color(255, 204, 204));

spendings.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        spendingsMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        spendingsMouseExited(evt);

    }

});

expense_button.setFont(new java.awt.Font("Cambria", 1, 18)); // NOI18N

expense_button.setText("+EXPENSE");
```

```
expense_button.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

expense_button.setFocusPainted(false);

expense_button.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        expense_buttonMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        moneymouseentered(evt);

    }

});
```

```
income_button.setFont(new java.awt.Font("Cambria", 1, 18)); // NOI18N

income_button.setText("+INCOME");

income_button.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        income_buttonMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        moneymouseentered(evt);

    }

});

income_button.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        income_buttonActionPerformed(evt);

    }

});
```

```
right.setIcon(new javax.swing.ImageIcon(getClass().getResource("/arrow-27-32.png"))); //
NOI18N
```

```
right.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        rightMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        moneymouseentered(evt);
    }
});
```

```
left.setIcon(new javax.swing.ImageIcon(getClass().getResource("/arrow-91-32.png"))); //
NOI18N
```

```
left.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        leftMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        moneymouseentered(evt);
    }
});
```

```
time.setFont(new java.awt.Font("Comic Sans MS", 0, 20)); // NOI18N
```

```
time.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
Budget_pb.setForeground(new java.awt.Color(153, 51, 255));
```

```
Budget_pb.setStringPainted(true);
```



```
jLabel13.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
jLabel13.setText("BUDGET");

jLabel14.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
jLabel14.setText("EXPENSE");

getBudget.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
getBudget.setForeground(new java.awt.Color(0, 102, 0));
getBudget.setText("i");
getBudget.setToolTipText("Money allowed to spend (budget)");

getSavings.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
getSavings.setForeground(new java.awt.Color(0, 51, 255));
getSavings.setText("s");
getSavings.setToolTipText("Money saved from the income");

jScrollPane3.setFont(new java.awt.Font("Comic Sans MS", 0, 16)); // NOI18N
jScrollPane3.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        moneymouseentered(evt);
    }
});

user_data_table.setFont(new java.awt.Font("Comic Sans MS", 0, 16)); // NOI18N
user_data_table.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
```

```
    },  
    new String [] {  
        "Category Name", "Amount"  
    }  
){  
    boolean[] canEdit = new boolean [] {  
        false, false  
    };  
  
    public boolean isCellEditable(int rowIndex, int columnIndex) {  
        return canEdit [columnIndex];  
    }  
});  
user_data_table.setRowHeight(24);  
jScrollPane3.setViewportViewView(user_data_table);  
  
total.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N  
total.setText("BALANCE REMAINING");  
  
tb.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N  
  
savings_button.setFont(new java.awt.Font("Cambria", 1, 18)); // NOI18N  
savings_button.setText("+SAVINGS");  
savings_button.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        savings_buttonMouseClicked(evt);  
    }  
})
```

```
        public void mouseEntered(java.awt.event.MouseEvent evt) {
            moneymouseentered(evt);
        }
    });

    savings_button.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            savings_buttonActionPerformed(evt);
        }
    });

    jLabel16.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
    jLabel16.setText("SAVINGS");

    getExpense.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
    getExpense.setForeground(new java.awt.Color(255, 0, 0));
    getExpense.setText("e");
    getExpense.setToolTipText("Money spent from the budget");

    Expense_pb.setForeground(new java.awt.Color(153, 51, 255));
    Expense_pb.setStringPainted(true);

    savings_pb.setForeground(new java.awt.Color(153, 51, 255));
    savings_pb.setStringPainted(true);

    jLabel17.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
    jLabel17.setText("TOTAL INCOME");
```

```
sum.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
sum.setForeground(new java.awt.Color(102, 0, 102));
sum.setText("sum");

javax.swing.GroupLayout spendingsLayout = new javax.swing.GroupLayout(spendings);
spendings.setLayout(spendingsLayout);
spendingsLayout.setHorizontalGroup(
    spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(spendingsLayout.createSequentialGroup()
            .addContainerGap()

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(spendingsLayout.createSequentialGroup()

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
spendingsLayout.createSequentialGroup()

                .addComponent(time, javax.swing.GroupLayout.PREFERRED_SIZE, 373,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(18, 18, 18)

                .addComponent(left)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

                .addComponent(right))

            .addComponent(jScrollPane3)

            .addGroup(spendingsLayout.createSequentialGroup()

                .addComponent(total)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
.addComponent(tb, javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
spendingsLayout.createSequentialGroup())

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(spendingsLayout.createSequentialGroup())

.addComponent(jLabel16)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(savings_pb, javax.swing.GroupLayout.PREFERRED_SIZE, 250,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
spendingsLayout.createSequentialGroup())

.addComponent(jLabel14)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(Expense_pb, javax.swing.GroupLayout.PREFERRED_SIZE, 250,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
spendingsLayout.createSequentialGroup())

.addComponent(jLabel13)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(Budget_pb, javax.swing.GroupLayout.PREFERRED_SIZE, 251,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGap(18, 18, 18)

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(getExpense, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 98, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addComponent(getBudget, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 98, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(getSavings, javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGap(34, 34, 34)

.addGroup(spendingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)

.addComponent(expense_button, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(income_button, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(savings_button, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))

.addGroup(spendingLayout.createSequentialGroup())

.addComponent(jLabel17)

.addGap(18, 18, 18)

.addComponent(sum, javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

spendingLayout.setVerticalGroup(

spendingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(spendingLayout.createSequentialGroup())

.addContainerGap()

.addGroup(spendingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(left)

.addComponent(time, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(right))
```

```
.addGap(7, 7, 7)

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(jLabel17)

    .addComponent(sum, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(spendingsLayout.createSequentialGroup()

        .addComponent(expense_button)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(income_button)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(savings_button))

    .addGroup(spendingsLayout.createSequentialGroup())

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(spendingsLayout.createSequentialGroup()

        .addGap(1, 1, 1)

        .addComponent(getBudget, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGroup(spendingsLayout.createSequentialGroup())

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(Budget_pb, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jLabel13))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel14)
    .addComponent(Expense_pb, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(getExpense, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel16)

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(savings_pb, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(getSavings, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE))))))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 7,
Short.MAX_VALUE)
    .addComponent(jScrollPane3, javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(spendingsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(total)
    .addComponent(tb, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addContainerGap()

);

jScrollPane3.getAccessibleContext().setAccessibleDescription("");
```



```
centre.add(spendings, "card2");

transactions.setBackground(new java.awt.Color(255, 204, 255));
transactions.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        transactionsMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        transactionsMouseExited(evt);
    }
});
```

```
trtable.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
trtable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {

    },
    new String [] {
        "Date", "Category", "Amount"
    }
) {
    boolean[] canEdit = new boolean [] {
        false, false, false
    };

    public boolean isCellEditable(int rowIndex, int columnIndex) {
```

```
        return canEdit [columnIndex];
    }
});

trtable.setRowHeight(20);

trtable.setSelectionMode(javax.swing.ListSelectionModel.SINGLE_SELECTION);

jScrollPane5.setViewportViewView(trtable);


time2.setFont(new java.awt.Font("Comic Sans MS", 0, 16)); // NOI18N
time2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);


left2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/arrow-91-32.png"))); //
NOI18N

left2.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        left2MouseClicked(evt);
    }
});


right2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/arrow-27-32.png"))); //
NOI18N

right2.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        right2MouseClicked(evt);
    }
});


update.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
update.setText("UPDATE/DELETE");
```

```
update.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        updateActionPerformed(evt);  
    }  
});  
  
javax.swing.GroupLayout transactionsLayout = new javax.swing.GroupLayout(transactions);  
transactions.setLayout(transactionsLayout);  
transactionsLayout.setHorizontalGroup(  
    transactionsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(transactionsLayout.createSequentialGroup()  
            .addGroup(transactionsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(transactionsLayout.createSequentialGroup()  
                    .addContainerGap()  
                    .addComponent(jScrollPane5)  
                    .addGroup(transactionsLayout.createSequentialGroup()  
                        .addGap(111, 111, 111)  
                        .addComponent(left2)  
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                        .addComponent(time2, javax.swing.GroupLayout.PREFERRED_SIZE, 309,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                        .addComponent(right2)  
                        .addGap(42, 120, Short.MAX_VALUE))  
                    .addContainerGap()  
                    .addGroup(transactionsLayout.createSequentialGroup()  
                        .addGap(201, 201, 201)
```

```
.addComponent(update, javax.swing.GroupLayout.PREFERRED_SIZE, 193,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

transactionsLayout.setVerticalGroup(

transactionsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
transactionsLayout.createSequentialGroup())

.addContainerGap()

.addComponent(jScrollPane5, javax.swing.GroupLayout.DEFAULT_SIZE, 258,
Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(transactionsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(right2)

.addComponent(time2, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(left2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(update)

.addGap(16, 16, 16))

);

centre.add(transactions, "card3");

stat.setBackground(new java.awt.Color(255, 204, 204));

stat.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

statMouseEntered(evt);
```

```
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {
        statMouseExited(evt);
    }
});

left1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/arrow-91-32.png"))); //
NOI18N

left1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        left1MouseClicked(evt);
    }
});

right1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/arrow-27-32.png"))); //
NOI18N

right1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        right1MouseClicked(evt);
    }
});

time1.setFont(new java.awt.Font("Comic Sans MS", 0, 16)); // NOI18N
time1.setForeground(new java.awt.Color(0, 0, 153));
time1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

buttonGroup1.add(pie_radio);

pie_radio.setFont(new java.awt.Font("Comic Sans MS", 0, 18)); // NOI18N
```

```
pie_radio.setText("Pie Chart");

pie_radio.setOpaque(false);

pie_radio.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        pie_radioActionPerformed(evt);

    }

});

buttonGroup1.add(bar_radio);

bar_radio.setFont(new java.awt.Font("Comic Sans MS", 0, 18)); // NOI18N

bar_radio.setText("Bar Chart");

bar_radio.setOpaque(false);

bar_radio.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        bar_radioActionPerformed(evt);

    }

});

jLabel19.setFont(new java.awt.Font("Comic Sans MS", 0, 18)); // NOI18N

jLabel19.setForeground(new java.awt.Color(102, 0, 102));

jLabel19.setText("Stats of your expenses");

javax.swing.GroupLayout statLayout = new javax.swing.GroupLayout(stat);

stat.setLayout(statLayout);

statLayout.setHorizontalGroup(

    statLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(statLayout.createSequentialGroup()
```

```
.addGroup(statLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(statLayout.createSequentialGroup())

        .addGap(215, 215, 215)

        .addComponent(jLabel19))

    .addGroup(statLayout.createSequentialGroup())

        .addGap(114, 114, 114)

    .addGroup(statLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

        .addGroup(statLayout.createSequentialGroup())

            .addComponent(pie_radio)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

            .addComponent(bar_radio))

        .addGroup(statLayout.createSequentialGroup())

            .addComponent(left1)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

            .addComponent(time1, javax.swing.GroupLayout.PREFERRED_SIZE, 309,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addComponent(right1))))

    .addContainerGap(131, Short.MAX_VALUE))

);

statLayout.setVerticalGroup(

    statLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
statLayout.createSequentialGroup())

            .addContainerGap()

            .addComponent(jLabel19)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(statLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

    .addComponent(time1, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(right1)

    .addComponent(left1))

.addGap(18, 18, 18)

.addGroup(statLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(pie_radio)

    .addComponent(bar_radio))

.addContainerGap(232, Short.MAX_VALUE))

);
```

```
centre.add(stat, "card5");
```

```
reminderpanel.setBackground(new java.awt.Color(255, 204, 255));
```

```
jLabel22.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
```

```
jLabel22.setText("TODAY IS:");
```

```
jLabel23.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
```

```
jLabel23.setText("EVENT TYPE:");
```

```
eventcombo.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
```

```
eventcombo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Birthdays",
"Anniversaries", "Other Important Events" }));
```

```
eventcombo.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```



```
        eventcomboActionPerformed(evt);
    }
});

addevent.setIcon(new javax.swing.ImageIcon(getClass().getResource("/plus-4-32.png"))); //
NOI18N

addevent.setToolTipText("add event");

addevent.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

addevent.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        addeventMouseClicked(evt);
    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {
        addeventMouseEntered(evt);
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {
        addeventMouseExited(evt);
    }
});

removeevent.setIcon(new javax.swing.ImageIcon(getClass().getResource("/minus-4-32.png")));
// NOI18N

removeevent.setToolTipText("remove event");

removeevent.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        removeeventMouseClicked(evt);
    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {
```

```
        removeeventMouseEntered(evt);
    }

    public void mouseExited(java.awt.event.MouseEvent evt) {
        removeeventMouseExited(evt);
    }
});

eventlist.setBackground(new java.awt.Color(255, 204, 255));
eventlist.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
eventlist.setSelectionMode(javax.swing.ListSelectionModel.SINGLE_SELECTION);
eventlist.setPreferredSize(new java.awt.Dimension(250, 245));
eventlist.addListSelectionListener(new javax.swing.event.ListSelectionListener() {
    public void valueChanged(javax.swing.event.ListSelectionEvent evt) {
        eventlistValueChanged(evt);
    }
});

jScrollPane6.setViewportView(eventlist);

eventdata.setBackground(new java.awt.Color(255, 204, 255));

jLabel24.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
jLabel24.setText("NAME:");

edate.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
edate.setForeground(new java.awt.Color(0, 102, 0));
edate.setToolTipText("Money allowed to spend (budget)");
```

```
datelabel.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
datelabel.setText("DATE:");

ename2.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
ename2.setForeground(new java.awt.Color(0, 102, 0));
ename2.setToolTipText("Money allowed to spend (budget)");

daystogo.setColumns(20);
daystogo.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
daystogo.setForeground(new java.awt.Color(0, 0, 204));
daystogo.setLineWrap(true);
daystogo.setRows(5);
jScrollPane7.setViewportView(daystogo);

eventdate.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
eventdate.setForeground(new java.awt.Color(0, 102, 0));
eventdate.setToolTipText("Money allowed to spend (budget)");

javax.swing.GroupLayout eventdataLayout = new javax.swing.GroupLayout(eventdata);
eventdata.setLayout(eventdataLayout);
eventdataLayout.setHorizontalGroup(
    eventdataLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(eventdataLayout.createSequentialGroup()
            .addContainerGap()

.addGroup(eventdataLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(eventdataLayout.createSequentialGroup()
                .addContainerGap()
```

```
.addComponent(jLabel24)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(ename2, javax.swing.GroupLayout.DEFAULT_SIZE, 193,
Short.MAX_VALUE)

.addGap(16, 16, 16))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
eventdataLayout.createSequentialGroup())

.addGroup(eventdataLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

    .addComponent(eventdate, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

    .addComponent(jScrollPane7, javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
eventdataLayout.createSequentialGroup())

    .addComponent(datelabel)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addComponent(edate, javax.swing.GroupLayout.DEFAULT_SIZE, 193,
Short.MAX_VALUE)))

.addGap(19, 19, 19)))

);

eventdataLayout.setVerticalGroup(

    eventdataLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(eventdataLayout.createSequentialGroup())

    .addGap(18, 18, 18)

    .addGroup(eventdataLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

        .addComponent(ename2, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel24))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(eventdataLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(datelabel, javax.swing.GroupLayout.Alignment.TRAILING)

    .addComponent(edate, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 21, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 12,
Short.MAX_VALUE)

.addComponent(eventdate, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jScrollPane7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(30, 30, 30))

);
```

```
todayis.setFont(new java.awt.Font("Comic Sans MS", 0, 14)); // NOI18N
```

```
coming.setColumns(20);
```

```
coming.setFont(new java.awt.Font("Arial", 0, 13)); // NOI18N
```

```
coming.setForeground(new java.awt.Color(255, 0, 0));
```

```
coming.setLineWrap(true);
```

```
coming.setRows(5);
```

```
jScrollPane8.setViewportViewView(coming);
```

```
javax.swing.GroupLayout reminderpanelLayout = new
javax.swing.GroupLayout(reminderpanel);
```

```
reminderpanel.setLayout(reminderpanelLayout);
```

```
reminderpanelLayout.setHorizontalGroup(
```

```
reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(reminderpanelLayout.createSequentialGroup())

.addGap(44, 44, 44)

.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(reminderpanelLayout.createSequentialGroup())

.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel23)

.addComponent(jLabel22))

.addGap(18, 18, 18)

.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)

.addComponent(eventcombo, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addComponent(todayis, javax.swing.GroupLayout.PREFERRED_SIZE, 193,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGroup(reminderpanelLayout.createSequentialGroup())

.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING
)

.addComponent(addevent)

.addComponent(removeevent))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jScrollPane6, javax.swing.GroupLayout.PREFERRED_SIZE, 264,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(reminderpanelLayout.createSequentialGroup())

.addGap(8, 8, 8)
```

```
.addComponent(eventdata, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
  
.addGroup(reminderpanelLayout.createSequentialGroup()  
  
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
  
.addComponent(jScrollPane8)))  
  
.addContainerGap()  
  
);  
  
reminderpanelLayout.setVerticalGroup(  
  
reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
.addGroup(reminderpanelLayout.createSequentialGroup()  
  
.addContainerGap()  
  
.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
.addGroup(reminderpanelLayout.createSequentialGroup()  
  
.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING  
)  
  
.addComponent(jLabel22)  
  
.addComponent(todayis, javax.swing.GroupLayout.PREFERRED_SIZE, 27,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
  
.addGap(17, 17, 17)  
  
.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE  
)  
  
.addComponent(jLabel23)  
  
.addComponent(eventcombo, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
  
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
  
.addGroup(reminderpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

        .addGroup(reminderpanelLayout.createSequentialGroup())

        .addComponent(addevent)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(removeevent))

        .addComponent(jScrollPane6, javax.swing.GroupLayout.PREFERRED_SIZE, 234,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGroup(reminderpanelLayout.createSequentialGroup())

        .addComponent(jScrollPane8, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(eventdata, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addContainerGap())

    );

    centre.add(reminderpanel, "card8");

    jPanel5.add(centre, java.awt.BorderLayout.CENTER);

    jPanel8.add(jPanel5, java.awt.BorderLayout.CENTER);

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);

    layout.setHorizontalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel8, javax.swing.GroupLayout.PREFERRED_SIZE, 900,
javax.swing.GroupLayout.PREFERRED_SIZE)

    );

```



```
        layout.setVerticalGroup(

            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addComponent(jPanel8, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        );

        pack();
    } // </editor-fold>

    private void closeMouseClicked(java.awt.event.MouseEvent evt) {

        //close the form

        System.exit(0);
    }

    private void minMouseClicked(java.awt.event.MouseEvent evt) {

        // minimise the form

        this.setState(JFrame.ICONIFIED);
    }

    private void spMouseClicked(java.awt.event.MouseEvent evt) {

        sp.setBackground(new Color(178, 102, 255));

    }

    private void trMouseClicked(java.awt.event.MouseEvent evt) {

        tr.setBackground(new Color(178, 102, 255));
    }
```

```
private void catMouseEntered(java.awt.event.MouseEvent evt) {  
    cat.setBackground(new Color(178, 102, 255));  
}
```

```
private void statsMouseEntered(java.awt.event.MouseEvent evt) {  
    stats.setBackground(new Color(178, 102, 255));  
}
```

```
private void spMouseExited(java.awt.event.MouseEvent evt) {  
    sp.setBackground(new Color(102, 0, 102));  
}
```

```
private void trMouseExited(java.awt.event.MouseEvent evt) {  
    tr.setBackground(new Color(102, 0, 102));  
}
```

```
private void catMouseExited(java.awt.event.MouseEvent evt) {  
    cat.setBackground(new Color(102, 0, 102));  
}
```

```
private void statsMouseExited(java.awt.event.MouseEvent evt) {  
    stats.setBackground(new Color(102, 0, 102));  
}
```

```
private void minMouseEntered(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(178, 102, 255));  
}
```

```
}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(255, 255, 255));  
}
```

```
private void closeMouseEntered(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(178, 102, 255));  
}
```

```
private void closeMouseExited(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(255, 255, 255));  
}
```

```
private void userMouseEntered(java.awt.event.MouseEvent evt) {  
    Border bp = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);  
    user.setBorder(bp);  
}
```

```
private void userMouseExited(java.awt.event.MouseEvent evt) {  
    user.setBorder(null);  
}
```

```
private void calMouseEntered(java.awt.event.MouseEvent evt) {  
    Border bp = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);  
    cal.setBorder(bp);  
}
```

```
private void calMouseExited(java.awt.event.MouseEvent evt) {  
    cal.setBorder(null);  
}
```

```
public void timefunction(String n){  
    String inter =n;  
    LocalDate currentDate = LocalDate.now();  
    Month m = currentDate.getMonth();  
    int y = currentDate.getYear();  
    if(inter.equals("Monthly")) {  
        time.setText(""+m+" "+y);  
        time1.setText(""+m+" "+y);  
        time2.setText(""+m+" "+y);  
    }  
    if(inter.equals("Yearly")){  
        time.setText(""+y);  
        time1.setText(""+y);  
        time2.setText(""+y);  
    }  
}
```

```
public void Spend(){  
    DefaultTableModel model;  
    model = (DefaultTableModel) user_data_table.getModel();  
    int rowCount = model.getRowCount();
```

```
for(int i=rowCount-1; i>=0; i--){  
    model.removeRow(i);  
}  
  
String n = interval.getText();  
Float amt_e = 0f, amt_i = 0f, amt_s = 0f;  
  
Statement stmt_e, stmt_i, stmt_s;  
  
String q_e, q_i, q_s;  
  
ResultSet rs_e, rs_i, rs_s;  
  
Connection con_e, con_i, con_s;  
  
String u = pname.getText();  
  
int exp = 0;  
  
int inc = 0;  
  
int sav = 0;  
  
float t_expense = 0f;  
  
float t_income = 0f;  
  
float t_savings = 0f;  
  
String cat_name = "";  
  
  
//check time interval  
  
String ti = interval.getText();  
  
//expense calculation  
  
try{  
    Class.forName("java.sql.Driver");  
  
    con_e = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",  
"root", "password");  
  
    stmt_e = con_e.createStatement();  
  
    //case 1 when year is selected as interval (calucualting total expense of the user during  
selected year)
```

```

        if(ti.equals("Yearly")){

            int year = Integer.parseInt(time.getText());

            q_e = "Select * from user_data where User_Name = '"+u+"' and Type = 'E' and
year(date) = '"+year+"'";

            rs_e = stmt_e.executeQuery(q_e);

            while(rs_e.next()){

                amt_e = rs_e.getFloat("Amount");

                cat_name = rs_e.getString("Cat_Name");

                model.insertRow(model.getRowCount(), new Object[]{cat_name,
amt_e});

                exp = (int) ( exp + amt_e);

                t_expense = t_expense + amt_e;

            }

        }

//case 2 when the interval selected is monthly (calculating total expense of the user
during selected month)

        if(ti.equals("Monthly")){

            String m_y = time.getText();

            String[] getm_y = m_y.split(" ");

            String m = getm_y[0];

            int y = Integer.parseInt(getm_y[1]);

            int m_v = Month.valueOf(m.toUpperCase()).getValue();

            q_e = "Select * from user_data where User_Name = '"+u+"' and Type = 'E' and
year(date) = '"+y+"' and month(date) = '"+m_v+"'";

            rs_e = stmt_e.executeQuery(q_e);

```

```

        while(rs_e.next()){

            amt_e = rs_e.getFloat("Amount");

            cat_name = rs_e.getString("Cat_Name");


            model.insertRow(model.getRowCount(), new Object[]{cat_name,
amt_e});

            exp = (int) ( exp + amt_e);

            t_expense = t_expense + amt_e;

        }

    }

    }//the first try block ends

    //catch block for first try block

    catch(Exception e){

        JOptionPane.showMessageDialog(null, "Error in connectivity");

    }

    //next try block to calculate total savings

    try{

        Class.forName("java.sql.Driver");

        con_s = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        stmt_s = con_s.createStatement();

        //case 1 when year is selected as interval (calucualting total savings of the user during
selected year)

        if(ti.equals("Yearly")){

            int year = Integer.parseInt(time.getText());

            q_s = "Select * from user_data where User_Name = '"+u+"' and Type = 'S' and
year(date) = '"+year+"'";

            rs_s = stmt_s.executeQuery(q_s);

```

```

        while(rs_s.next()){

            amt_s = rs_s.getFloat("Amount");

            cat_name = rs_s.getString("Cat_Name");

            model.insertRow(model.getRowCount(), new Object[]{cat_name, amt_s});

            sav = (int) ( sav + amt_s);

            t_savings = t_savings + amt_s;

        }

    }

    //case 2 when the interval selected is monthly (calculating total savings of the user
    during selected month)

    if(ti.equals("Monthly")){

        String m_y = time.getText();

        String[] getm_y = m_y.split(" ");

        String m = getm_y[0];

        int y = Integer.parseInt(getm_y[1]);

        int m_v = Month.valueOf(m.toUpperCase()).getValue();

        q_s = "Select * from user_data where User_Name = '"+u+"' and Type = 'S' and
        year(date) = '"+y+"' and month(date) = '"+m_v+"'";

        rs_s = stmt_s.executeQuery(q_s);

        while(rs_s.next()){

            amt_s = rs_s.getFloat("Amount");

            cat_name = rs_s.getString("Cat_Name");

            model.insertRow(model.getRowCount(), new Object[]{cat_name, amt_s});

            sav = (int) ( sav + amt_s);

            t_savings = t_savings + amt_s;

        }
    }

```



```

        }

    } //the try block ends

    //catch block for first try block
    catch(Exception e){

        JOptionPane.showMessageDialog(null, "Error in connectivity");

    }

    //the next try block for calculating income of the user
    try{

        Class.forName("java.sql.Driver");

        con_i = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
        "root", "password");

        stmt_i = con_i.createStatement();

        //case 1 when the interval is yearly(calculating total income of the user during the
        selected year

        if(ti.equals("Yearly")){

            int year = Integer.parseInt(time.getText());

            q_i = "Select * from user_data where User_Name = '"+u+"' and Type = 'I' and
            year(Date) = '"+year+"';";

            rs_i = stmt_i.executeQuery(q_i);

            while(rs_i.next()){

                amt_i = rs_i.getFloat("Amount");

                cat_name = rs_i.getString("Cat_Name");

                model.insertRow(model.getRowCount(), new Object[]{cat_name, amt_i});

                inc=(int) (inc+ amt_i);

                t_income = t_income + amt_i;

            }

        }

    }

```

//case 2 when the interval is monthly (calculating total income of the user during the selected month

```

        if(ti.equals("Monthly")){

            String m_y = time.getText();

            String[] getm_y = m_y.split(" ");

            String m = getm_y[0];

            int y = Integer.parseInt(getm_y[1]);

            int m_v = Month.valueOf(m.toUpperCase()).getValue();

            q_i = "Select * from user_data where User_Name = '"+u+"' and Type = 'I' and
year(date) = '"+y+"' and month(date) = '"+m_v+"'";

            rs_i = stmt_i.executeQuery(q_i);

            while(rs_i.next()){

                amt_i = rs_i.getFloat("Amount");

                cat_name = rs_i.getString("Cat_Name");

                model.insertRow(model.getRowCount(), new Object[]{cat_name, amt_i});

                inc = (int) ( inc + amt_i);

                t_income = t_income + amt_i;

            }

        }

        /*displaying total income,savings and expense on their respective labels*/

        Float bud = t_income - t_savings;

        getBudget.setText(""+bud);

        getExpense.setText(""+t_expense);

        getSavings.setText(""+t_savings);

        sum.setText(""+t_income);

        /*code for displaying progress on progress bar*/

```

```

        int b = (int) (t_income - t_savings);

        Budget_pb.setMaximum(inc);

        Expense_pb.setMaximum(inc);

        savings_pb.setMaximum(inc);

        Budget_pb.setValue(b);

        Expense_pb.setValue(exp);

        savings_pb.setValue(sav);


        Float balance = bud - t_expense;

        tb.setText(""+balance);

    } //the second try block ends

    //the catch block for 2nd try block
    catch(Exception e){

        JOptionPane.showMessageDialog(null, "Error in connectivity!");

    }

}

private void mouseClicked(java.awt.event.MouseEvent evt) {

    String v_u = pname.getText();

    String n = interval.getText();


    if(evt.getSource()==sp)

    {

        starting.setVisible(false);

        spendings.setVisible(true);

```

```
transactions.setVisible(false);  
  
categories.setVisible(false);  
  
stat.setVisible(false);  
  
profile.setVisible(false);  
  
reminderpanel.setVisible(false);  
  
Spend();
```

```
}  
  
if(evt.getSource()==tr)  
{  
  
    starting.setVisible(false);  
  
    spendings.setVisible(false);  
  
    transactions.setVisible(true);  
  
    categories.setVisible(false);  
  
    stat.setVisible(false);  
  
    profile.setVisible(false);  
  
    reminderpanel.setVisible(false);  
  
    transactionPane();  
  
}
```

```
if(evt.getSource()==cat)  
{  
  
    starting.setVisible(false);  
  
    spendings.setVisible(false);
```

```
transactions.setVisible(false);  
  
categories.setVisible(true);  
  
stat.setVisible(false);  
  
profile.setVisible(false);  
  
reminderpanel.setVisible(false);  
  
}
```

```
if(evt.getSource()==stats)  
{  
    starting.setVisible(false);  
    spendings.setVisible(false);  
    transactions.setVisible(false);  
    categories.setVisible(false);  
    stat.setVisible(true);  
    profile.setVisible(false);  
    reminderpanel.setVisible(false);  
    time1.setText(time.getText());  
  
}
```

```
if(evt.getSource()==user)  
{  
    starting.setVisible(false);  
    spendings.setVisible(false);  
    transactions.setVisible(false);  
    categories.setVisible(false);  
    stat.setVisible(false);  
}
```

```
        profile.setVisible(true);

        reminderpanel.setVisible(false);
    }

    if(evt.getSource()==cal)
    {
        String[] options = {"Monthly", "Yearly"};

        ImageIcon icon = new ImageIcon("src/iconfinder_calendar_285670.png");

        n = (String)JOptionPane.showInputDialog(null, "Choose time interval:", "Monthly or Yearly",
        JOptionPane.QUESTION_MESSAGE, icon, options, options[0]);

        if(n!=null){
            timefunction(n);

            interval.setText(n);
        }
    }

    if(evt.getSource()==user)
    {

    try{

        Class.forName("java.sql.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
        "root", "password");

        Statement stmt = con.createStatement();

        String q = "Select email, Full_Name from user where user_name ='" +v_u+"'";

        ResultSet rs = stmt.executeQuery(q);
```

```
while(rs.next()){

    String e1 = rs.getString("email");

    String e2 = rs.getString("Full_Name");

    email1.setText(e1);

    name.setText(e2);

    }

}

catch(Exception e)

    {

        JOptionPane.showMessageDialog(null, "Error while establishing connection");

    }

}

if(evt.getSource()==remindertitle){

    starting.setVisible(false);

    spendings.setVisible(false);

    transactions.setVisible(false);

    categories.setVisible(false);

    stat.setVisible(false);

    profile.setVisible(false);

    reminderpanel.setVisible(true);

    ReminderFirstClick();

}

}
```

```
private void formWindowOpened(java.awt.event.WindowEvent evt) {  
    String n = interval.getText();  
  
    timefunction(n);  
  
    try {  
        PopUp();  
    } catch (ParseException ex) {  
        Logger.getLogger(HomePage.class.getName()).log(Level.SEVERE, null, ex);  
    }  
}  
  
private void cuMouseClicked(java.awt.event.MouseEvent evt) {  
    Change_username cuser = new Change_username();  
    cuser.setVisible(true);  
  
}  
  
private void cpMouseClicked(java.awt.event.MouseEvent evt) {  
  
    Change_password cpass;  
    cpass = new Change_password(pname.getText());  
    cpass.setVisible(true);  
  
}  
  
private void cuMouseEntered(java.awt.event.MouseEvent evt) {  
    // change bgcolor
```



```
        cu.setBackground(new Color(204, 153, 255));
    }

    private void cpMouseExited(java.awt.event.MouseEvent evt) {
        cp.setBackground(Color.white);
    }

    private void cpMouseEntered(java.awt.event.MouseEvent evt) {
        // change bgcolor
        cp.setBackground(new Color(204, 153, 255));
    }

    private void cuMouseExited(java.awt.event.MouseEvent evt) {
        cu.setBackground(Color.white);
    }

    private void mouseEntered(java.awt.event.MouseEvent evt) {
        cat.setBackground(new Color(178, 102, 255));
    }

    private void categoriesMouseExited(java.awt.event.MouseEvent evt) {
        cat.setBackground(new Color(102, 0, 102));
    }

    private void spendingsMouseEntered(java.awt.event.MouseEvent evt) {
        sp.setBackground(new Color(178, 102, 255));
    }
}
```

```
private void spendingsMouseExited(java.awt.event.MouseEvent evt) {  
    sp.setBackground(new Color(102, 0, 102));  
}
```

```
private void profileMouseEntered(java.awt.event.MouseEvent evt) {  
    Border bp = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);  
    user.setBorder(bp);  
}
```

```
private void profileMouseExited(java.awt.event.MouseEvent evt) {  
    user.setBorder(null);  
}
```

```
private void transactionsMouseEntered(java.awt.event.MouseEvent evt) {  
    tr.setBackground(new Color(178, 102, 255));  
}
```

```
private void transactionsMouseExited(java.awt.event.MouseEvent evt) {  
    tr.setBackground(new Color(102, 0, 102));  
}
```

```
private void statMouseEntered(java.awt.event.MouseEvent evt) {  
    stats.setBackground(new Color(178, 102, 255));  
}
```

```
private void statMouseExited(java.awt.event.MouseEvent evt) {
```

```
        stats.setBackground(new Color(102, 0, 102));
    }

    private void expense_panelMouseEntered(java.awt.event.MouseEvent evt) {
        expense_panel.setBackground(new Color(186,85,211));
        cat.setBackground(new Color(178, 102, 255));
    }

    private void income_panelMouseEntered(java.awt.event.MouseEvent evt) {
        income_panel.setBackground(new Color(186,85,211));
        cat.setBackground(new Color(178, 102, 255));
    }

    private void income_panelMouseExited(java.awt.event.MouseEvent evt) {
        income_panel.setBackground(new Color(102, 0, 102));
        cat.setBackground(new Color(178, 102, 255));
    }

    private void expense_panelMouseExited(java.awt.event.MouseEvent evt) {
        expense_panel.setBackground(new Color(102, 0, 102));
        cat.setBackground(new Color(178, 102, 255));
    }

    private void add_catMouseClicked(java.awt.event.MouseEvent evt) {
        add_cat ac;
        ac = new add_cat(pname.getText());
    }
```

```
        ac.setVisible(true);

    }

    private void add_catMouseEntered(java.awt.event.MouseEvent evt) {
        Border bp = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);
        add_cat.setBorder(bp);
    }

    private void add_catMouseExited(java.awt.event.MouseEvent evt) {
        add_cat.setBorder(null);
    }

    private void expense_buttonMouseClicked(java.awt.event.MouseEvent evt) {
        String u = pname.getText();

        Expense e = new Expense(u);

        e.setVisible(true);

    }

    private void income_buttonMouseClicked(java.awt.event.MouseEvent evt) {
        String u = pname.getText();

        Income i = new Income(u);

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

```
private void leftMouseClicked(java.awt.event.MouseEvent evt) {  
    String ti = interval.getText();  
    if(ti.equals("Yearly")){  
        int year = Integer.parseInt(time.getText());  
        int year2 = year-1;  
        time.setText(""+year2);  
    }  
    if(ti.equals("Monthly")){  
        String m_y = time.getText();  
        String[] getm_y = m_y.split(" ");  
        String m = getm_y[0];  
        String monthname;  
        int y = Integer.parseInt(getm_y[1]);  
        int m_v = Month.valueOf(m.toUpperCase()).getValue();  
        if(m_v == 1){  
            m_v = 12;  
            y = y-1;  
        }  
        else{  
            m_v -= 1;  
        }  
        monthname = Month.of(m_v).name();  
        time.setText(monthname+" "+y);  
    }  
    Spend();  
}
```

```
private void rightMouseClicked(java.awt.event.MouseEvent evt) {  
  
    String ti = interval.getText();  
  
    if(ti.equals("Yearly")){  
  
        int year = Integer.parseInt(time.getText());  
  
        int year2 = year+1;  
  
        time.setText(""+year2);  
  
    }  
  
    if(ti.equals("Monthly")){  
  
        String m_y = time.getText();  
  
        String[] getm_y = m_y.split(" ");  
  
        String m = getm_y[0];  
  
        String monthname;  
  
        int y = Integer.parseInt(getm_y[1]);  
  
        int m_v = Month.valueOf(m.toUpperCase()).getValue();  
  
        if(m_v == 12){  
  
            m_v = 1;  
  
            y = y+1;  
  
        }  
  
        else{  
  
            m_v += 1;  
  
        }  
  
        monthname = Month.of(m_v).name();  
  
        time.setText(monthname+" "+y);  
  
    }  
  
    Spend();  
  
}
```

```
private void cpActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void left1MouseClicked(java.awt.event.MouseEvent evt) {  
    String ti = interval.getText();  
    if(ti.equals("Yearly")){  
        int year = Integer.parseInt(time1.getText());  
        int year2 = year-1;  
        time1.setText(""+year2);  
    }  
    if(ti.equals("Monthly")){  
        String m_y = time1.getText();  
        String[] getm_y = m_y.split(" ");  
        String m = getm_y[0];  
        String monthname;  
        int y = Integer.parseInt(getm_y[1]);  
        int m_v = Month.valueOf(m.toUpperCase()).getValue();  
        if(m_v == 1){  
            m_v = 12;  
            y = y-1;  
        }  
        else{  
            m_v -= 1;  
        }  
        monthname = Month.of(m_v).name();  
    }
```

```
        time1.setText(monthname+" "+y);
    }

}

private void right1MouseClicked(java.awt.event.MouseEvent evt) {
    String ti = interval.getText();
    if(ti.equals("Yearly")){
        int year = Integer.parseInt(time1.getText());
        int year2 = year+1;
        time1.setText(""+year2);
    }
    if(ti.equals("Monthly")){
        String m_y = time1.getText();
        String[] getm_y = m_y.split(" ");
        String m = getm_y[0];
        String monthname;
        int y = Integer.parseInt(getm_y[1]);
        int m_v = Month.valueOf(m.toUpperCase()).getValue();
        if(m_v == 12){
            m_v = 1;
            y = y+1;
        }
        else{
            m_v += 1;
        }
        monthname = Month.of(m_v).name();
    }
}
```



```
        time1.setText(monthname+" "+y);
    }

}

private void savings_buttonMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
}

private void savings_buttonActionPerformed(java.awt.event.ActionEvent evt) {
    String u = pname.getText();

    saving i = new saving(u);

    i.setVisible(true);
}

private void income_buttonActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void savings_panelMouseClicked(java.awt.event.MouseEvent evt) {
    savings_panel.setBackground(new Color(186,85,211));
    cat.setBackground(new Color(178, 102, 255));
}

private void savings_panelMouseExited(java.awt.event.MouseEvent evt) {
    savings_panel.setBackground(new Color(102, 0, 102));
}
```

```
cat.setBackground(new Color(178, 102, 255));
}

private void ex_in_svmouseClicked(java.awt.event.MouseEvent evt) {
    String us = pname.getText();
    if(evt.getSource()==expense_panel){
        ex_panel.setVisible(true);
        in_panel.setVisible(false);
        sv_panel.setVisible(false);
        //creating list object
        DefaultListModel elist = new DefaultListModel();

        //fetching expense categories from the table

        try{
            Class.forName("java.sql.Driver");
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");
            Statement stmt = con.createStatement();
            String q = "Select Name from categories where Type ='E' and User_Name = '"+us+"'";

            ResultSet rs = stmt.executeQuery(q);
            while(rs.next()){
                String e1 = rs.getString("Name");
                elist.addElement(e1);
                ex_list.setModel(elist);
            }
        }
    }
}
```

```
        }
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(null, "Error while establishing connection");
    }

}

if(evt.getSource()==income_panel){
    ex_panel.setVisible(false);
    in_panel.setVisible(true);
    sv_panel.setVisible(false);

    //creating list object
    DefaultListModel ilist = new DefaultListModel();

    //fetching expense categories from the table
    try{
        Class.forName("java.sql.Driver");

        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker", "root", "password");

        Statement stmt = con.createStatement();

        String q = "Select Name from categories where Type ='I' and User_Name = '"+us+"'";

        ResultSet rs = stmt.executeQuery(q);

        while(rs.next()){

            String i1 = rs.getString("Name");

            ilist.addElement(i1);

            in_list.setModel(ilist);

        }
    }
```

```
    }  
    catch(Exception e)  
    {  
        JOptionPane.showMessageDialog(null, "Error while establishing connection");  
    }  
  
    }  
  
    if(evt.getSource()==savings_panel){  
        ex_panel.setVisible(false);  
        in_panel.setVisible(false);  
        sv_panel.setVisible(true);  
  
        //creating list object  
        DefaultListModel slist = new DefaultListModel();  
  
        //fetching expense categories from the table  
        try{  
            Class.forName("java.sql.Driver");  
  
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",  
"root", "password");  
  
            Statement stmt = con.createStatement();  
  
            String q = "Select Name from categories where Type ='S' and User_Name = '"+us+"'";  
  
            ResultSet rs = stmt.executeQuery(q);  
            while(rs.next()){  
                String s1 = rs.getString("Name");  
                slist.addElement(s1);  
                sv_list.setModel(slist);  
            }  
        }  
        catch(Exception e){  
            JOptionPane.showMessageDialog(null, "Error while fetching categories");  
        }  
    }  
}
```

```
        }
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(null, "Error while establishing connection");
    }

}

}

private void rem_catMouseClicked(java.awt.event.MouseEvent evt) {

    RemoveCat rc;

    rc = new RemoveCat(pname.getText());

    rc.setVisible(true);

}

private void rem_catMouseEntered(java.awt.event.MouseEvent evt) {

    Border bp = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);

    rem_cat.setBorder(bp);

}

private void rem_catMouseExited(java.awt.event.MouseEvent evt) {

    rem_cat.setBorder(null);

}

public void Logout(){

    this.dispose();
}
```

```
    Login form = new Login();

    form.setVisible(true);

    form.setLocationRelativeTo(null);
}

public void BarChart(){

    String u = pname.getText();

    String i = interval.getText();

    int y;

    DefaultCategoryDataset dod = new DefaultCategoryDataset();

    if(i.equals("Yearly")){

        Float texpanse = 0f;

        int size = 0;

        y = Integer.parseInt(time1.getText());

        try{

            Class.forName("java.sql.Driver");

            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

            Statement stmt = con.createStatement();

            String q = "Select * from user_data where user_name = '"+u+"' and type = 'E' and year(date) =
 '"+y+"'";

            int count = 0;

            ResultSet rs = stmt.executeQuery(q);

            while(rs.next()){

                size = size+1;

            }

            Float amtValue[] = new Float[size];
```

```
String catName[] = new String[size];

ResultSet rs2 = stmt.executeQuery(q);

while(rs2.next()){

    catName[count] = rs2.getString("Cat_Name");

    amtValue[count] = rs2.getFloat("Amount");

    texpanse = texpanse + amtValue[count];

    count = count +1;

}

// boolean isE = false;

for ( int j = 0; j<size; j++){

    String catToSearch = catName[j];

    for (int k = j+1; k<size; k++){

        String catV = catName[k];

        if(catToSearch.equals(catV)){

            amtValue[j]=amtValue[j]+amtValue[k];

            catName[k] = "";

            amtValue[k] = 0f;

        }

    }

}

Float v1;

for(int l = 0; l<size; l++){

    if(amtValue[l]!=0f){
```

```

        v1 = amtValue[l];

        dod.setValue(v1,"Categories",catName[l]);

    }

}

JFreeChart chart = ChartFactory.createBarChart("Expense Record", "Category
Name","Amount", dod, PlotOrientation.VERTICAL, true, true, true);

CategoryPlot plot = chart.getCategoryPlot();

plot.setRangeGridlinePaint(Color.black);

ChartFrame f = new ChartFrame("Expense Record", chart, true);

f.setSize(800, 600);

f.setLocationRelativeTo(null);

f.setVisible(true);
}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection1");

}

}

if(i.equals("Monthly")){

    Float texpanse = 0f;

    String cat_name = "";

    int size = 0;

    String m_y = time1.getText();

        String[] getm_y = m_y.split(" ");

        String m = getm_y[0];

        y = Integer.parseInt(getm_y[1]);

```



```
        int m_v = Month.valueOf(m.toUpperCase()).getValue();

    try{

        Class.forName("java.sql.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement stmt = con.createStatement();

        String q = "Select * from user_data where user_name = '"+u+"' and type = 'E' and year(date) =
 '"+y+"' and month(date) = '"+m_v+"'";

        int count = 0;

        ResultSet rs = stmt.executeQuery(q);

        while(rs.next()){

            size = size+1;

        }

        Float amtValue[] = new Float[size];

        String catName[] = new String[size];

        ResultSet rs2 = stmt.executeQuery(q);

        while(rs2.next()){

            catName[count] = rs2.getString("Cat_Name");

            amtValue[count] = rs2.getFloat("Amount");

            texpanse = texpanse + amtValue[count];

            count = count +1;

        }

    }
```

```
// boolean isE = false;

for ( int j = 0; j<size; j++){

    String catToSearch = catName[j];

    for (int k = j+1; k<size; k++){

        String catV = catName[k];

        if(catToSearch.equals(catV)){

            amtValue[j]=amtValue[j]+amtValue[k];

            catName[k] = "";

            amtValue[k] = 0f;

        }

    }

}

Float v1;

for(int l = 0; l<size; l++){

    if(amtValue[l]!=0f){

        v1 = amtValue[l];

        dod.setValue(v1,"Categories",catName[l]);

    }

}

JFreeChart chart = ChartFactory.createBarChart("Expense Record", "Category
Name","Amount", dod, PlotOrientation.VERTICAL, true, true, true);

CategoryPlot plot = chart.getCategoryPlot();

plot.setRangeGridlinePaint(Color.black);

ChartFrame f = new ChartFrame("Expense Record", chart, true);

f.setSize(800, 600);
```

```
f.setLocationRelativeTo(null);

f.setVisible(true);
}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection1");

}

}

}

public void PieChart(){

    String u = pname.getText();

    String i = interval.getText();


    int y;

    DefaultPieDataset dataset = new DefaultPieDataset();

    if(i.equals("Yearly")){

        Float texpanse = 0f;

        int size = 0;

        y = Integer.parseInt(time1.getText());

        try{

            Class.forName("java.sql.Driver");

            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

            Statement stmt = con.createStatement();

            String q = "Select * from user_data where user_name = '"+u+"' and type = 'E' and year(date) =
 '"+y+"';";

            int count = 0;
```

```
ResultSet rs = stmt.executeQuery(q);

while(rs.next()){

    size = size+1;

}

Float amtValue[] = new Float[size];

String catName[] = new String[size];

ResultSet rs2 = stmt.executeQuery(q);

while(rs2.next()){

    catName[count] = rs2.getString("Cat_Name");

    amtValue[count] = rs2.getFloat("Amount");

    texpanse = texpanse + amtValue[count];

    count = count +1;

}

// boolean isE = false;

for ( int j = 0; j<size; j++){

    String catToSearch = catName[j];

    for (int k = j+1; k<size; k++){

        String catV = catName[k];

        if(catToSearch.equals(catV)){

            amtValue[j]=amtValue[j]+amtValue[k];

            catName[k] = "";

        }

    }

}
```

```
        amtValue[k] = 0f;
    }
}
}

Float v1;
for(int l = 0; l<size; l++){
    if(amtValue[l]!=0f){
        v1 = (amtValue[l]/texpanse)*360;
        dataset.setValue(catName[l], v1);
    }
}

JFreeChart chart = ChartFactory.createPieChart("Pie Chart", dataset, true, true, true);
ChartFrame f = new ChartFrame("Pie chart", chart);
f.setSize(600, 600);
f.setLocationRelativeTo(null);
f.setVisible(true);
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(null, "Error while establishing connection1");
}
}

if(i.equals("Monthly")){
    Float texpanse = 0f;
    String cat_name = "";
    int size = 0;
```

```
String m_y = time1.getText();

String[] getm_y = m_y.split(" ");

String m = getm_y[0];

y = Integer.parseInt(getm_y[1]);

int m_v = Month.valueOf(m.toUpperCase()).getValue();

try{

    Class.forName("java.sql.Driver");

    Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

    Statement stmt = con.createStatement();

    String q = "Select * from user_data where user_name = '"+u+"' and type = 'E' and year(date) =
 '"+y+"' and month(date) = '"+m_v+"'";

    int count = 0;

    ResultSet rs = stmt.executeQuery(q);

    while(rs.next()){

        size = size+1;

    }

    Float amtValue[] = new Float[size];

    String catName[] = new String[size];

    ResultSet rs2 = stmt.executeQuery(q);

    while(rs2.next()){

        catName[count] = rs2.getString("Cat_Name");

        amtValue[count] = rs2.getFloat("Amount");

        texpanse = texpanse + amtValue[count];
```

```
        count = count +1;
    }

    // boolean isE = false;

    for ( int j = 0; j<size; j++){
        String catToSearch = catName[j];

        for (int k = j+1; k<size; k++){

            String catV = catName[k];

            if(catToSearch.equals(catV)){

                amtValue[j]=amtValue[j]+amtValue[k];

                catName[k] = "";

                amtValue[k] = 0f;

            }

        }

    }

    Float v1;

    for(int l = 0; l<size; l++){

        if(amtValue[l]!=0f){

            v1 = (amtValue[l]/texpanse)*360;

            dataset.setValue(catName[l], v1);

        }

    }

    JFreeChart chart = ChartFactory.createPieChart("Pie Chart", dataset, true, true, true);

    ChartFrame f = new ChartFrame("Pie chart", chart);

    f.setSize(600, 600);
```

```
f.setLocationRelativeTo(null);

f.setVisible(true);

}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection2");

}

}

}

private void pie_radioActionPerformed(java.awt.event.ActionEvent evt) {

    PieChart();

    buttonGroup1.clearSelection();

}

private void jLabel18MouseClicked(java.awt.event.MouseEvent evt) {

    Logout();

}

private void jLabel18MouseEntered(java.awt.event.MouseEvent evt) {

    Border b = BorderFactory.createMatteBorder(0, 1, 1, 1, Color.white);

    jLabel18.setBorder(b);

}
```



```
private void jLabel18MouseClicked(java.awt.event.MouseEvent evt) {  
    jLabel18.setBorder(null);  
}
```

```
private void left2MouseClicked(java.awt.event.MouseEvent evt) {  
    String ti = interval.getText();  
    if(ti.equals("Yearly")){  
        int year = Integer.parseInt(time2.getText());  
        int year2 = year-1;  
        time2.setText(""+year2);  
    }  
    if(ti.equals("Monthly")){  
        String m_y = time2.getText();  
        String[] getm_y = m_y.split(" ");  
        String m = getm_y[0];  
        String monthname;  
        int y = Integer.parseInt(getm_y[1]);  
        int m_v = Month.valueOf(m.toUpperCase()).getValue();  
        if(m_v == 1){  
            m_v = 12;  
            y = y-1;  
        }  
        else{  
            m_v -= 1;  
        }  
        monthname = Month.of(m_v).name();  
    }  
}
```

```
        time2.setText(monthname+" "+y);
    }

    transactionPane();
}

private void right2MouseClicked(java.awt.event.MouseEvent evt) {
    String ti = interval.getText();
    if(ti.equals("Yearly")){
        int year = Integer.parseInt(time2.getText());
        int year2 = year+1;
        time2.setText(""+year2);
    }
    if(ti.equals("Monthly")){
        String m_y = time2.getText();
        String[] getm_y = m_y.split(" ");
        String m = getm_y[0];
        String monthname;
        int y = Integer.parseInt(getm_y[1]);
        int m_v = Month.valueOf(m.toUpperCase()).getValue();
        if(m_v == 12){
            m_v = 1;
            y = y+1;
        }
        else{
            m_v += 1;
        }
        monthname = Month.of(m_v).name();
    }
}
```

```
        time2.setText(monthname+" "+y);
    }

    transactionPane();
}

private void updateActionPerformed(java.awt.event.ActionEvent evt) {

    Date dt=null;

    String ct="";

    Float amt=0f;

    int selectedRow = trtable.getSelectedRow();

    if(selectedRow>-1){

dt = (Date) trtable.getValueAt(selectedRow, 0);

ct = (String) trtable.getValueAt(selectedRow, 1);

amt = (Float) trtable.getValueAt(selectedRow, 2);


        Transaction t;

        t = new Transaction(pname.getText(), dt, ct, amt);

        t.setVisible(true);

    }

    else

        JOptionPane.showMessageDialog(null, "Please select the transaction you want to update!");

}

private void bar_radioActionPerformed(java.awt.event.ActionEvent evt) {

    BarChart();

    buttonGroup1.clearSelection();

}
```

```
}
```

```
private void remindertitleMouseEntered(java.awt.event.MouseEvent evt) {  
    remindertitle.setBackground(new Color(178, 102, 255));  
}
```

```
private void remindertitleMouseExited(java.awt.event.MouseEvent evt) {  
    remindertitle.setBackground(new Color(102, 0, 102));  
}
```

```
private void moneymouseentered(java.awt.event.MouseEvent evt) {  
    sp.setBackground(new Color(178, 102, 255));  
}
```

```
private void addeventMouseExited(java.awt.event.MouseEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void addeventMouseEntered(java.awt.event.MouseEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void addeventMouseClicked(java.awt.event.MouseEvent evt) {  
    AddEvent addDialog = new AddEvent(this, true);  
    addDialog.setLocationRelativeTo(null);  
    addDialog.setVisible(true);  
}
```

```
private void removeeventMouseExited(java.awt.event.MouseEvent evt) {  
    }  
  
private void removeeventMouseEntered(java.awt.event.MouseEvent evt) {  
  
}  
  
private void removeeventMouseClicked(java.awt.event.MouseEvent evt) {  
    RemoveEvent();  
}  
  
private void eventcomboActionPerformed(java.awt.event.ActionEvent evt) {  
  
    EventComboMethod();  
}  
  
private void eventlistValueChanged(javax.swing.event.ListSelectionEvent evt) {  
    EventListMethod();  
    try {  
        DaysToGo();  
    } catch (ParseException ex) {  
        Logger.getLogger(HomePage.class.getName()).log(Level.SEVERE, null, ex);  
    }  
}  
  
private void popiconMouseClicked(java.awt.event.MouseEvent evt) {
```

```
ReminderPopUp obj = new ReminderPopUp(storeData.pop);

obj.setVisible(true);


popicon.setVisible(false);
}

public void transactionPane(){

    DefaultTableModel model;

    model = (DefaultTableModel) trtable.getModel();

    int rowCount = model.getRowCount();

    for(int i=rowCount-1; i>=0; i--){

        model.removeRow(i);

    }


    Float amt = 0f;


    String u = pname.getText();


    String cat_name = "";

    Date d;

    //check time interval

    String ti = interval.getText();


    try{

        Class.forName("java.sql.Driver");
```

```
        Connection cont =
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker", "root", "password");

        Statement stmtt = cont.createStatement();

        ResultSet rst;

        String qt;

        if(ti.equals("Yearly")){

            int year = Integer.parseInt(time2.getText());

            qt = "Select * from user_data where User_Name = '"+u+"' and year(date) =
"+year+"";

            rst = stmtt.executeQuery(qt);

            while(rst.next()){

                amt = rst.getFloat("Amount");

                cat_name = rst.getString("Cat_Name");

                d = rst.getDate("Date");

                model.insertRow(model.getRowCount(), new Object[]{d, cat_name,
amt});

            }

        }

        if(ti.equals("Monthly")){

            String m_y = time2.getText();

            String[] getm_y = m_y.split(" ");

            String m = getm_y[0];

            int y = Integer.parseInt(getm_y[1]);

            int m_v = Month.valueOf(m.toUpperCase()).getValue();
```

```

        qt = "Select * from user_data where User_Name = '"+u+"' and year(date) =
        '"+y+"' and month(date) = '"+m_v+"'";

        rst = stmtt.executeQuery(qt);

        while(rst.next()){

            amt = rst.getFloat("Amount");

            cat_name = rst.getString("Cat_Name");

            d = rst.getDate("Date");

            model.insertRow(model.getRowCount(), new Object[]{d, cat_name,
amt});

        }

    }

    catch(Exception e){

        JOptionPane.showMessageDialog(null, "Error in connectivity");

    }

}

public void EventComboMethod(){

    eventdata.setVisible(false);

    //creating list object

    DefaultListModel elist = new DefaultListModel();

    elist.clear();

    eventlist.setModel(elist);

    if(eventcombo.getSelectedItem()=="Birthdays"){

        try{

```



```
Class.forName("java.sql.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

Statement stmt = con.createStatement();

String q = "Select EventDetail from eventtable where TypeOfEvent ='B' and User_Name =
"+pname.getText()+"";

ResultSet rs = stmt.executeQuery(q);

while(rs.next()){

    String e1 = rs.getString("EventDetail");

    elist.addElement(e1);

    eventlist.setModel(elist);

}

}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection");

}

}

if(eventcombo.getSelectedItem()=="Anniversaries"){

    try{

        Class.forName("java.sql.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement stmt = con.createStatement();

        String q = "Select EventDetail from eventtable where TypeOfEvent ='A' and User_Name =
"+pname.getText()+"";
```

```
ResultSet rs = stmt.executeQuery(q);

while(rs.next()){

    String e1 = rs.getString("EventDetail");

    elist.addElement(e1);

    eventlist.setModel(elist);

}

}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection");

}

}

if(eventcombo.getSelectedItem()=="Other Important Events"){

    try{

        Class.forName("java.sql.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement stmt = con.createStatement();

        String q = "Select EventDetail from eventtable where TypeOfEvent ='O' and User_Name =
"'+pname.getText()+"";";

        ResultSet rs = stmt.executeQuery(q);

        while(rs.next()){

            String e1 = rs.getString("EventDetail");

            elist.addElement(e1);

            eventlist.setModel(elist);
```

```
        }  
    }  
    catch(Exception e)  
    {  
        JOptionPane.showMessageDialog(null, "Error while establishing connection");  
    }  
}  
  
public void ReminderFirstClick(){  
    coming.setText(storeData.pop());  
    eventdata.setVisible(false);  
    eventcombo.setSelectedItem("Birthdays");  
  
    //creating list object  
    DefaultListModel elist = new DefaultListModel();  
    elist.clear();  
    eventlist.setModel(elist);  
    try{  
        Class.forName("java.sql.Driver");  
        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",  
"root", "password");  
        Statement stmt = con.createStatement();  
        String q = "Select EventDetail from eventtable where TypeOfEvent ='B' and User_Name =  
"+pname.getText()+"";  
  
        ResultSet rs = stmt.executeQuery(q);  
        while(rs.next()){
```

```
String e1 = rs.getString("EventDetail");

elist.addElement(e1);

eventlist.setModel(elist);

    }
}

catch(Exception e)

    {

        JOptionPane.showMessageDialog(null, "Error while establishing connection");

    }

}

public void EventListMethod() {

    if(!eventlist.isSelectionEmpty()){

        String t = (String)eventcombo.getSelectedItem();

        String type="";

        if(t.equals("Birthdays")){

            type="B";

            datelabel.setText("Birthday:");

        }

        else if(t.equals("Anniversaries")){

            type="A";

            datelabel.setText("Date:");

        }

        else{

            type = "O";
```

```
        datelabel.setText("Date:");
    }

    eventdata.setVisible(true);

    String evt= eventlist.getSelectedValue();

    try{

        Class.forName("java.sql.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement stmt = con.createStatement();

        String q = "Select * from eventtable where TypeOfEvent='"+type+"' and User_Name =
 '"+pname.getText()+"' and EventDetail = '"+evt+"'";

        ResultSet rs = stmt.executeQuery(q);

        while(rs.next()){

            Date d1 = rs.getDate("Date");

            edate.setText(""+d1);

        }

        ename2.setText(eventlist.getSelectedValue());

    }

    catch(Exception e)

    {

        JOptionPane.showMessageDialog(null, "Error while establishing connection");

    }
```

```
    }  
}  
  
public void DaysToGo() throws ParseException{  
    String monthname;  
  
    String s1 = edate.getText();  
    String[] ss1 = s1.split("-");  
    int m = Integer.parseInt(ss1[1]);  
    int dt = Integer.parseInt(ss1[2]);  
    int y = Integer.parseInt(ss1[0]);  
    monthname = Month.of(m).name();  
  
    String s2 = todayis.getText();  
    String[] ss2 = s2.split("-");  
    int y2 = Integer.parseInt(ss2[0]);  
  
    String dd2 = ""+y2+"-"+m+"-"+dt+" 00:00:00";  
    eventdate.setText("Event is on: "+dt+" "+monthname);  
  
    SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");  
    Date d1 = formatter.parse(todayis.getText()+" "+java.time.LocalDateTime.now().toString());  
  
    Date d2 = formatter.parse(dd2);  
    long diff = d2.getTime() - d1.getTime();  
    long diffDays = diff/(24*60*60*1000);  
    long diffSec = diff/1000%60;  
    long diffMinutes = diff/(60*1000)%60;  
    long diffHours = diff/(60*60*1000)%24;
```

```

if(diffDays == 0){

    daystogo.setText("It's Today!");
}

else if(diffDays<0){

    daystogo.setText("This event has passed for this year");
}

else if(eventcombo.getSelectedItem()=="Other Important Events"){

    if(y<y2){

        daystogo.setText("This event has already passed in "+y);

    }

    else

        daystogo.setText(""+diffDays+" days " + diffHours + " hours " + diffMinutes+ " min "+
diffSec + " seconds to go!");

}

else

    daystogo.setText(""+diffDays+" days " + diffHours + " hours " + diffMinutes+ " min "+ diffSec
+ " seconds to go!");

}

/*String s1 = edate.getText();

String s2 = todayis.getText();

String[] ss2 = s2.split("-");

String[] ss1 = s1.split("-");

int y2 = Integer.parseInt(ss2[0]);

int m2 = Integer.parseInt(ss2[1]);

int dt2 = Integer.parseInt(ss2[2]);

```

```
int m = Integer.parseInt(ss1[1]);

int dt = Integer.parseInt(ss1[2]);

Calendar c1 = Calendar.getInstance();

Calendar c2 = Calendar.getInstance();

c1.set(y2, m, dt);

c2.set(y2, m2, dt2);

boolean leap = false;

if(y2%4 == 0){

    if(y2%100 == 0){

        if(y2%400 == 0)

            leap = true;

        else

            leap = false;

    }

    else leap = true;

}

else leap = false;

int dtogo = 0;

int days = (int) (c1.getTime().getTime()/(24*60*60*1000));

int days2 = (int) (c2.getTime().getTime()/(24*60*60*1000));

if(days2>days){

    if(leap)

        dtogo = (days2-days)+366-1;

    else

        dtogo = (days2-days)+365-1;
```



```
    }

    else if(days2<days){

        dtogo = (days-days2)-1;

    }

    String curTime = java.time.LocalTime.now().toString();

    SimpleDateFormat format = new SimpleDateFormat("HH:mm:ss");

    Date curT = format.parse(curTime);

    Date dayEnd = format.parse("24:00:00");

    long diff = dayEnd.getTime() - curT.getTime();

    long diffSec = diff/1000%60;

    long diffMinutes = diff/(60*1000)%60;

    long diffHours = diff/(60*60*1000)%24;

    daystogo.setText(""+dtogo+" days" + diffHours + " hours" + diffMinutes+ " min"+ diffSec + "
seconds to go!");*/

    }

    public void RemoveEvent(){

        String evt_name = eventlist.getSelectedValue();

        String evt_type;

        if(eventcombo.getSelectedItem()=="Other Important Events"){

            evt_type = "O";

        }

        else if(eventcombo.getSelectedItem()=="Anniversaries"){

            evt_type = "A";

        }

    }
```

```
else

evt_type = "B";

if(eventlist.isSelectionEmpty())

    JOptionPane.showMessageDialog(null, "First select an event to remove from the list.");

else{

try{

    Class.forName("java.sql.Driver");

    Connection con1 =
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");

    Statement stmt1 = con1.createStatement();

    String q = "Delete from eventtable where TypeOfEvent = '"+evt_type+"' and EventDetail =
 '"+evt_name+"' and User_Name = '"+storeData.username+"'";

    if(stmt1.executeUpdate(q)!=0)

    {

        JOptionPane.showMessageDialog(null, "Event is removed");

    }

    else{

        JOptionPane.showMessageDialog(null, "Something went wrong, please try again.");

    }

}

catch(Exception e1)

{

    JOptionPane.showMessageDialog(null, "Error in connectivity1");
```

```
}  
  
}  
  
}  
  
public void PopUp() throws ParseException{  
  
    jScrollPane8.setVisible(true);  
  
    popicon.setVisible(true);  
  
    String s2 = todayis.getText();  
  
    String[] ss2 = s2.split("-");  
  
    int m = Integer.parseInt(ss2[1]);  
  
    int y = Integer.parseInt(ss2[0]);  
  
    int d = Integer.parseInt(ss2[2]);  
  
    SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");  
  
    Date dt = formatter.parse(s2);  
  
  
    int count =0, size=0, arraysize = 0;  
  
  
    String popupstring = "";  
  
    try{  
  
        Class.forName("java.sql.Driver");  
  
        Connection con1 =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");  
  
        Statement stmt1 = con1.createStatement();  
  
        String q = "Select * from eventtable where User_Name = '"+storeData.username+"' and  
month(date) = '"+m+"'";  
  
        ResultSet rst = stmt1.executeQuery(q);  
  
        while(rst.next()){  
  
            size = size+1;
```

```
        }

        if(size<1){

            jScrollPane8.setVisible(false);

            popicon.setVisible(false);

        }

        String evtarray[] = new String[size];

        String typearray[] = new String[size];

        Date dtarray[] = new Date[size];

        String type2[] = new String[size];

        ResultSet rs2 = stmt1.executeQuery(q);

        while(rs2.next()){

            evtarray[count] = rs2.getString("EventDetail");

            dtarray[count] = rs2.getDate("Date");

            typearray[count] = rs2.getString("TypeOfEvent");

            if(typearray[count].equals("B")){

                type2[count] = "birthday of ";

            }

            if(typearray[count].equals("A")){

                type2[count] = "anniversary of ";

            }

            if(typearray[count].equals("O")){

                type2[count] = "an important event: ";

            }

            count = count +1;

        }

        String teststring="";
```

```
for ( int j = 0; j<size; j++){

    /* teststring = teststring+j;

    test.setText(teststring);*/

Date datetest = dtarray[j];

String s = String.valueOf(datetest);

String[] getm_y = s.split("-");

    int y2 = Integer.parseInt(getm_y[0]);

    int m2 = Integer.parseInt(getm_y[1]);

    int d2 = Integer.parseInt(getm_y[2]);

    String monthname = Month.of(m2).name();

    if(typearray[j].equals("O")&&(y2<y)){

        continue;

    }

    if(d2<d){

        continue;

    }

    if(d2==d){

        popupstring = popupstring+ "*" Today is "+ type2[j]+evtarray[j]+"\\n";

    }

    else

        popupstring = popupstring + "*" You have "+ type2[j]+ evtarray[j]+" on "+d2+"

        "+monthname+"\\n";

    /*if(typearray[j].equals("B") || typearray[j].equals("A")){
```

```
        if(d2>=d)
        {
            coming.setVisible(true);

            popicon.setVisible(true);

            popupstring = popupstring + "*) You have "+ type2[j]+ evtarray[j]+" on
"+dtarray[j]+"\\n";
        }

    }

    if(typearray[count].equals("O")){

        if(dtarray[j].after(dt)){

            coming.setVisible(true);

            popicon.setVisible(true);

            popupstring = popupstring + "*) You have "+ type2[j]+ evtarray[j]+" on "+dtarray[j]+"\\n";
        }
    }*/
}

storeData obj = new storeData();

obj.storePop(popupstring);
```

```
        /* while(j<i){
            popupstring = popupstring + evtarray[j]+"---"+dtarray[j]+"---
"+typearray[j]+"\\n";

            j = j+1;
        }

        test.setText(popupstring);

        /*arraysize = evtarray.length;
while(j<arraysize){
    if(typearray[j].equals("B")){
        popupstring = "Birthday of "+evtarray[j]+ " on "+ dtarray[j]+"\\n";
    }
    else if(typearray[j].equals("A")){
        popupstring = popupstring + "Anniversary of " +evtarray[j]+" on "+dtarray[j]+"\\n";

    }
    else if(typearray[j].equals("O")){
        popupstring = popupstring + "You have " +evtarray[j]+" on "+dtarray[j]+"\\n";

    }
    j=j+1;
}

ReminderPopUp remDialog = new ReminderPopUp(this, true, popupstring);
remDialog.setLocationRelativeTo(null);
remDialog.setVisible(true);*/
    }

    catch(Exception e1)
```

```
{
    JOptionPane.showMessageDialog(null, "Error in connectivity1");
}

}

public static void main(String args[]) {

    try {

        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());

                break;

            }

        }

    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(HomePage.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);

    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(HomePage.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);

    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(HomePage.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```



```
java.util.logging.Logger.getLogger(HomePage.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

}

//</editor-fold>

/* Create and display the form */

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        new HomePage().setVisible(true);

    }

});

}

}
```

TRANSACTIONS.JAVA

```
import java.awt.Color;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import java.text.DateFormat;

import java.text.SimpleDateFormat;

import java.util.Date;

import javax.swing.DefaultComboBoxModel;

import javax.swing.JFrame;
```

```
import javax.swing.JOptionPane;

public class Transaction extends javax.swing.JFrame {

    /**
     * Creates new form Update
     */
    public Transaction() {
        initComponents();
    }

    public Transaction(String u, Date date, String cat, Float amount){
        initComponents();

        this.setLocationRelativeTo(null);

        transactiondate.setDate(date);

        transactionamount.setText(""+amount);

        String extranotes = "Extra notes";

        String Type="";

        int getID = 0;

        try{

            DefaultComboBoxModel cat_transaction = new DefaultComboBoxModel();

            Class.forName("java.sql.Driver");

            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

            Statement stmt = con.createStatement();
```

```
String q = "Select * from user_data where User_Name = '"+u+"' and Date = '"+date+"' and  
Cat_Name = '"+cat+"' and amount = '"+amount+"'";
```

```
ResultSet rs = stmt.executeQuery(q);
```

```
while(rs.next()){
```

```
    getID = rs.getInt("ID");
```

```
    Type = rs.getString("Type");
```

```
    extranotes = rs.getString("ExtraNotes");
```

```
    }
```

```
extra.setText(extranotes);
```

```
if(Type.equals("E")){
```

```
    try{
```

```
        Class.forName("java.sql.Driver");
```

```
        Connection con1 = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",  
"root", "password");
```

```
        Statement stmt1 = con1.createStatement();
```

```
        String q1 = "Select Name from categories where Type ='E' AND User_Name = '"+u+"'";
```

```
        ResultSet rs1 = stmt1.executeQuery(q1);
```

```
        while(rs1.next()){
```

```
            String e1 = rs1.getString("Name");
```

```
            cat_transaction.addElement(e1);
```

```
            transactioncombo.setModel(cat_transaction);
```

```
        }
```

```
    }
```

```
    catch(Exception e)
```

```
        {  
            JOptionPane.showMessageDialog(null, "Error while establishing connection");  
        }  
    }  
  
    if(Type.equals("I")){  
        try{  
            Class.forName("java.sql.Driver");  
            Connection con1 = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",  
"root", "password");  
            Statement stmt1 = con1.createStatement();  
            String q1 = "Select Name from categories where Type ='I' AND User_Name = '"+u+"'";  
  
            ResultSet rs1 = stmt1.executeQuery(q1);  
            while(rs1.next()){  
                String e1 = rs1.getString("Name");  
                cat_transaction.addElement(e1);  
                transactioncombo.setModel(cat_transaction);  
            }  
        }  
        catch(Exception e)  
        {  
            JOptionPane.showMessageDialog(null, "Error while establishing connection");  
        }  
    }  
  
    if(Type.equals("S")){
```

```
try{

    Class.forName("java.sql.Driver");

    Connection con1 = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

    Statement stmt1 = con1.createStatement();

    String q1 = "Select Name from categories where Type ='S' AND User_Name = '"+u+"'";

    ResultSet rs1 = stmt1.executeQuery(q1);

    while(rs1.next()){

        String e1 = rs1.getString("Name");

        cat_transaction.addElement(e1);

        transactioncombo.setModel(cat_transaction);

    }

}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection");

}

}

transactioncombo.setSelectedItem(cat);

}

catch(Exception e)

{

    JOptionPane.showMessageDialog(null, "Error while establishing connection");

}
```

```
storeData obj = new storeData();

obj.storeID(getID);

}

@SuppressWarnings("unchecked")

private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jPanel3 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    min = new javax.swing.JLabel();
    close = new javax.swing.JLabel();
    transactiondate = new com.toedter.calendar.JDateChooser();
    transactionamount = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    extra = new javax.swing.JTextArea();
    updt = new javax.swing.JButton();
    transactioncombo = new javax.swing.JComboBox<>();
    deletetransaction = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setUndecorated(true);
    addWindowListener(new java.awt.event.WindowAdapter() {
        public void windowActivated(java.awt.event.WindowEvent evt) {
            formWindowActivated(evt);
        }
    })
}
```

```
});

jPanel1.setBackground(new java.awt.Color(204, 102, 255));

jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));

jPanel1.setLayout(new java.awt.BorderLayout());

jPanel3.setBackground(new java.awt.Color(255, 204, 255));

jPanel2.setBackground(new java.awt.Color(102, 0, 102));

jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Transaction");

min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
min.setForeground(new java.awt.Color(255, 255, 255));
min.setText("-");
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
min.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        minMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        minMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
```

```
        minMouseExited(evt);
    }
});

close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        closeMouseExited(evt);
    }
});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel1)
            .addContainerGap(10, true)))
    );
```



```
.addGap(100, 100, 100)

.addComponent(min)

.addGap(18, 18, 18)

.addComponent(close)

.addGap(15, 15, 15))

);

jPanel2Layout.setVerticalGroup(

    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel2Layout.createSequentialGroup())

            .addContainerGap()

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                    .addGroup(jPanel2Layout.createSequentialGroup())

                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                            .addComponent(min)

                                .addComponent(close))

                                .addGap(0, 11, Short.MAX_VALUE))

                                .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 36,

                                    Short.MAX_VALUE))

                                .addContainerGap())

                                );

transactiondate.setDateFormatString("yyyy-MM-dd");

transactiondate.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18));

transactionamount.setFont(new java.awt.Font("Cambria", 0, 18));

transactionamount.addFocusListener(new java.awt.event.FocusAdapter() {
```

```
public void focusGained(java.awt.event.FocusEvent evt) {  
    transactionamountFocusGained(evt);  
}  
  
public void focusLost(java.awt.event.FocusEvent evt) {  
    transactionamountFocusLost(evt);  
}  
});
```

```
extra.setColumns(20);  
extra.setFont(new java.awt.Font("Cambria", 0, 18));  
extra.setRows(5);  
extra.setText("Extra notes\n");  
extra.addFocusListener(new java.awt.event.FocusAdapter() {  
    public void focusGained(java.awt.event.FocusEvent evt) {  
        extraFocusGained(evt);  
    }  
    public void focusLost(java.awt.event.FocusEvent evt) {  
        extraFocusLost(evt);  
    }  
});  
jScrollPane1.setViewportViewView(extra);
```

```
updt.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18));  
updt.setText("Update");  
updt.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        updtMouseClicked(evt);  
    }  
});
```

```
    }  
});  
  
transactioncombo.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N  
transactioncombo.setForeground(new java.awt.Color(153, 153, 153));  
transactioncombo.addFocusListener(new java.awt.event.FocusAdapter() {  
    public void focusGained(java.awt.event.FocusEvent evt) {  
        transactioncomboFocusGained(evt);  
    }  
});  
  
deletetransaction.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N  
deletetransaction.setText("Delete");  
deletetransaction.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        deletetransactionMouseClicked(evt);  
    }  
});  
deletetransaction.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        deletetransactionActionPerformed(evt);  
    }  
});  
  
javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);  
jPanel3.setLayout(jPanel3Layout);  
jPanel3Layout.setHorizontalGroup(
```

```
jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(jPanel3Layout.createSequentialGroup())

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup())

.addGap(33, 33, 33)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(transactiondate, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)

.addComponent(transactionamount, javax.swing.GroupLayout.DEFAULT_SIZE, 381,
Short.MAX_VALUE)

.addComponent(jScrollPane1)

.addComponent(transactioncombo, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))

.addGroup(jPanel3Layout.createSequentialGroup())

.addGap(65, 65, 65)

.addComponent(updt, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(deletetransaction, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addContainerGap(25, Short.MAX_VALUE))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup())
```

```
.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(transactiondate, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(transactioncombo, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(transactionamount, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(28, 28, 28)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(updt)

.addComponent(deletetransaction))

.addContainerGap(38, Short.MAX_VALUE))

);

jPanel1.add(jPanel3, java.awt.BorderLayout.CENTER);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
);  
  
layout.setVerticalGroup(  
  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
  
    );  
  
pack();  
} // </editor-fold>
```

```
private void minMouseClicked(java.awt.event.MouseEvent evt) {  
  
    // minimise the form  
  
    this.setState(JFrame.ICONIFIED);  
}
```

```
private void minMouseEntered(java.awt.event.MouseEvent evt) {  
  
    min.setForeground(new Color(178, 102, 255));  
}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {  
  
    min.setForeground(new Color(255, 255, 255));  
}
```

```
private void closeMouseClicked(java.awt.event.MouseEvent evt) {  
  
    //close the form  
  
    this.dispose();  
}
```

```
private void closeMouseEntered(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(178, 102, 255));  
}  
  
private void closeMouseExited(java.awt.event.MouseEvent evt) {  
    close.setForeground(new Color(255, 255, 255));  
}  
  
private void transactionamountFocusGained(java.awt.event.FocusEvent evt) {  
  
}  
  
private void transactionamountFocusLost(java.awt.event.FocusEvent evt) {  
    if(transactionamount.getText().trim().equals("") ||  
transactionamount.getText().trim().equals("Amount"))  
    {  
        transactionamount.setText("Amount");  
        transactionamount.setForeground(new Color (153, 153, 153));  
    }  
}  
  
private void extraFocusGained(java.awt.event.FocusEvent evt) {  
    if(extra.getText().trim().equals("Extra notes"))  
    {  
        extra.setText("");  
    }  
}
```

```
    }  
}  
  
private void extraFocusLost(java.awt.event.FocusEvent evt) {  
    if(extra.getText().trim().equals("") || extra.getText().trim().equals("Extra notes"))  
    {  
        extra.setText("Extra notes");  
        extra.setForeground(new Color (153, 153, 153));  
    }  
}  
  
private void updtMouseClicked(java.awt.event.MouseEvent evt) {  
  
    int id = storeData.ID;  
  
    DateFormat df = new SimpleDateFormat("yyyy-MM-dd");  
    String dnew = df.format(transactiondate.getDate());  
  
    Float amtnew = Float.parseFloat(transactionamount.getText());  
  
    String exnew = extra.getText();  
  
    String catnew = transactioncombo.getSelectedItem().toString();
```



```
try{

    Class.forName("java.sql.Driver");

    Connection con1 =
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");

    Statement stmt1 = con1.createStatement();

    String q = "Update user_data set Date = '"+dnew+"', Cat_Name = '"+catnew+"', Amount =
"+amtnew+", ExtraNotes = '"+exnew+"' where ID = '"+id+"'";

    if(stmt1.executeUpdate(q)!=0)
    {

        JOptionPane.showMessageDialog(null, "Transaction Updated");

        this.dispose();

    }

    else{

        JOptionPane.showMessageDialog(null, "Something went wrong");

    }

}

catch(Exception e1)

{

    JOptionPane.showMessageDialog(null, "Error in connectivity1");

}

}
```



```
private void transactioncomboFocusGained(java.awt.event.FocusEvent evt) {
```

```
}
```

```
private void formWindowActivated(java.awt.event.WindowEvent evt) {
```

```
}
```

```
private void deletetransactionMouseClicked(java.awt.event.MouseEvent evt) {
```

```
    // TODO add your handling code here:
```

```
}
```

```
private void deletetransactionActionPerformed(java.awt.event.ActionEvent evt) {
```

```
    int id = storeData.ID;
```

```
    try{
```

```
        Class.forName("java.sql.Driver");
```

```
        Connection con1 =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");
```

```
        Statement stmt1 = con1.createStatement();
```

```
        String q = "Delete from user_data where ID = "+id+"";
```

```
        if(stmt1.executeUpdate(q)!=0)
```

```
        {
```

```
            JOptionPane.showMessageDialog(null, "Transaction deleted");
```

```
            this.dispose();
```

```
        }
```

```
    else{
```

```
        JOptionPane.showMessageDialog(null, "Something went wrong");
    }

}

catch(Exception e1)
{
    JOptionPane.showMessageDialog(null, "Error in connectivity1");
}

}

public static void main(String args[]) {

    try {

        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());

                break;

            }

        }

    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(Transaction.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);

    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Transaction.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);

    } catch (IllegalAccessException ex) {
```

```

java.util.logging.Logger.getLogger(Transaction.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Transaction.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

    }

    /* Create and display the form */

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new Transaction().setVisible(true);

        }

    });

}

}

```

STOREDATA.JAVA

```

public class storeData {

    static int ID=0;

    public void storeID(int i){

        ID=i;

    }

    static String username = "";

    public void storeUsername(String u){

        username=u;

    }

    static String pop = "";

```

```
public void storePop(String p){  
    pop = p;  
}  
}
```

ADDEVENT.JAVA

```
import java.awt.Color;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.Statement;  
import java.text.DateFormat;  
import java.text.ParseException;  
import java.text.SimpleDateFormat;  
import java.time.LocalDate;  
import javax.swing.JFrame;  
import javax.swing.JOptionPane;  
public class AddEvent extends javax.swing.JDialog {  
  
    /**  
     * Creates new form AddEvent  
     */  
    public AddEvent(java.awt.Frame parent, boolean modal) {  
        super(parent, modal);  
        initComponents();  
    }  
}
```

```
@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

    buttonGroup1 = new javax.swing.ButtonGroup();

    jPanel1 = new javax.swing.JPanel();

    jPanel2 = new javax.swing.JPanel();

    jLabel1 = new javax.swing.JLabel();

    close = new javax.swing.JLabel();

    eventname = new javax.swing.JTextField();

    birthdayevent = new javax.swing.JRadioButton();

    otherevent = new javax.swing.JRadioButton();

    addeventbutton = new javax.swing.JButton();

    anniversaryevent = new javax.swing.JRadioButton();

    eventdate = new com.toedter.calendar.JDateChooser();

    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

    setUndecorated(true);

    jPanel1.setBackground(new java.awt.Color(255, 204, 255));

    jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
    java.awt.Color(255, 255, 255)));

    jPanel2.setBackground(new java.awt.Color(102, 0, 102));

    jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N

    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel1.setText("Add a new event:");

close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        closeMouseExited(evt);
    }
});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(103, 103, 103)
            .addComponent(jLabel1)
            .addGap(104, 104, 104)
            .addComponent(close)
        )
    );
```

```
.addContainerGap()

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(close))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

eventname.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
eventname.setForeground(new java.awt.Color(153, 153, 153));
eventname.setText("name");
eventname.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        eventnameFocusGained(evt);
    }
    public void focusLost(java.awt.event.FocusEvent evt) {
        eventnameFocusLost(evt);
    }
});

buttonGroup1.add(birthdayevent);

birthdayevent.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
```



```
birthdayevent.setSelected(true);

birthdayevent.setText("Birthday");

birthdayevent.setOpaque(false);


buttonGroup1.add(otherevent);

otherevent.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N

otherevent.setText("Other ");

otherevent.setOpaque(false);


addeventbutton.setFont(new java.awt.Font("Microsoft Sans Serif", 0, 18)); // NOI18N

addeventbutton.setText("ADD");

addeventbutton.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        addeventbuttonMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        addeventbuttonMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        addeventbuttonMouseExited(evt);

    }

});

addeventbutton.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        addeventbuttonActionPerformed(evt);

    }

});
```

```
buttonGroup1.add(anniversaryevent);

anniversaryevent.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N

anniversaryevent.setText("Anniversary");

anniversaryevent.setOpaque(false);


javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(25, 25, 25)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(eventname, javax.swing.GroupLayout.DEFAULT_SIZE, 336,
Short.MAX_VALUE)
    .addComponent(eventdate, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup()
        .addGap(111, 111, 111)
        .addComponent(addeventbutton, javax.swing.GroupLayout.PREFERRED_SIZE, 122,
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup())

    .addComponent(birthdayevent)

    .addGap(18, 18, 18)

    .addComponent(anniversaryevent)

    .addGap(18, 18, 18)

    .addComponent(otherevent))))

.addContainerGap(25, Short.MAX_VALUE))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())

    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(18, 18, 18)

    .addComponent(eventname, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addComponent(eventdate, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(18, 18, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(birthdayevent)

    .addComponent(anniversaryevent)

    .addComponent(otherevent))

.addGap(9, 9, 9)

.addComponent(addeventbutton)

.addContainerGap())
```

```

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

);

pack();
} // </editor-fold>

private void closeMouseClicked(java.awt.event.MouseEvent evt) {

    //close the form

    this.dispose();
}

private void closeMouseEntered(java.awt.event.MouseEvent evt) {

    close.setForeground(new Color(178, 102, 255));
}

private void closeMouseExited(java.awt.event.MouseEvent evt) {

```

```
        close.setForeground(new Color(255, 255, 255));
    }

    private void eventnameFocusGained(java.awt.event.FocusEvent evt) {
        //clear the textfield if text is "categoryname"
        if(eventname.getText().trim().toLowerCase().equals("name"))
        {
            eventname.setText("");
            eventname.setForeground(Color.black);
        }
    }

    private void eventnameFocusLost(java.awt.event.FocusEvent evt) {
        if(eventname.getText().trim().equals("") ||
eventname.getText().trim().toLowerCase().equals("name"))
        {
            eventname.setText("name");
            eventname.setForeground(new Color (153, 153, 153));
        }
    }

    private void addeventbuttonMouseClicked(java.awt.event.MouseEvent evt) {

    }

    private void addeventbuttonMouseEntered(java.awt.event.MouseEvent evt) {
        addeventbutton.setBackground(new Color(176, 196, 222));
    }
}
```

```
}

private void addeventbuttonMouseExited(java.awt.event.MouseEvent evt) {
    addeventbutton.setBackground(new Color(240, 255, 240));
}

private void addeventbuttonActionPerformed(java.awt.event.ActionEvent evt) {
    if(eventname.getText().trim().equals("") ||
eventname.getText().trim().toLowerCase().equals("name")){
        JOptionPane.showMessageDialog(null, "Please enter a name");
    }
    else if(eventdate.getDate() == null){
        JOptionPane.showMessageDialog(null, "Please select a date");
    }
    else{
        String evt_name = eventname.getText();
        String evt_type;
        DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
        String d = df.format(eventdate.getDate());
        String us = storeData.username;
        if(otherevent.isSelected()== true){
            evt_type = "O";
        }
        else if(anniversaryevent.isSelected()== true){
            evt_type = "A";
        }
        else{
```

```
        evt_type = "B";
    }

    try{

        Class.forName("java.sql.Driver");

        Connection con1 =
        DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker","root","password");

        Statement stmt1 = con1.createStatement();

        String q = "Insert into eventtable(User_Name, TypeOfEvent, EventDetail, Date)
        values('"+us+"','"+evt_type+"','"+evt_name+"','"+d+"');";

        if(stmt1.executeUpdate(q)!=0)
        {
            JOptionPane.showMessageDialog(null, "New event is added");

            this.dispose();
        }
        else{
            JOptionPane.showMessageDialog(null, "Something went wrong, please try again.");
        }

    }

    catch(Exception e1)
    {
        JOptionPane.showMessageDialog(null, "Error in connectivity1");
    }
}
```

```
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(AddEvent.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(AddEvent.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(AddEvent.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(AddEvent.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
```



```

    }

//</editor-fold>

/* Create and display the dialog */

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        AddEvent dialog = new AddEvent(new javax.swing.JFrame(), true);

        dialog.addWindowListener(new java.awt.event.WindowAdapter() {

            @Override

            public void windowClosing(java.awt.event.WindowEvent e) {

                System.exit(0);

            }

        });

        dialog.setVisible(true);

    }

});

}

}

```

REMINDERPOPUP.JAVA

```

import java.awt.Color;

import javax.swing.JFrame;

public class ReminderPopUp extends javax.swing.JFrame {

    /**
     * Creates new form ReminderPopUp

```

```
*/

public ReminderPopUp() {

    initComponents();

}

public ReminderPopUp(String p) {

    initComponents();

    reminderdetails.setText(p);

    this.setLocationRelativeTo(null);

}

@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel7 = new javax.swing.JPanel();

    jPanel12 = new javax.swing.JPanel();

    jLabel6 = new javax.swing.JLabel();

    min = new javax.swing.JLabel();

    close5 = new javax.swing.JLabel();

    jScrollPane1 = new javax.swing.JScrollPane();

    reminderdetails = new javax.swing.JTextArea();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    setUndecorated(true);

    jPanel7.setBackground(new java.awt.Color(255, 204, 255));
```

```
jPanel7.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));
```

```
jPanel12.setBackground(new java.awt.Color(102, 0, 102));
```

```
jLabel6.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N
```

```
jLabel6.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel6.setText("Event reminder");
```

```
min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
```

```
min.setForeground(new java.awt.Color(255, 255, 255));
```

```
min.setText("-");
```

```
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
```

```
min.addMouseListener(new java.awt.event.MouseAdapter() {
```

```
    public void mouseClicked(java.awt.event.MouseEvent evt) {
```

```
        minMouseClicked(evt);
```

```
    }
```

```
    public void mouseEntered(java.awt.event.MouseEvent evt) {
```

```
        minMouseEntered(evt);
```

```
    }
```

```
    public void mouseExited(java.awt.event.MouseEvent evt) {
```

```
        minMouseExited(evt);
```

```
    }
```

```
});
```

```
close5.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
```

```
close5.setForeground(new java.awt.Color(255, 255, 255));
```

```
close5.setText("x");

close5.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

close5.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        close5MouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        close5MouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        close5MouseExited(evt);

    }

});

javax.swing.GroupLayout jPanel12Layout = new javax.swing.GroupLayout(jPanel12);
jPanel12.setLayout(jPanel12Layout);
jPanel12Layout.setHorizontalGroup(
    jPanel12Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel12Layout.createSequentialGroup()
            .addGap(131, 131, Short.MAX_VALUE)
            .addComponent(jLabel6)
            .addGap(66, 66, 66)
            .addComponent(min)
            .addGap(18, 18, 18)
            .addComponent(close5)
            .addGap(15, 15, 15)
        )
);
```

```
jPanel12Layout.setVerticalGroup(  
    jPanel12Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel12Layout.createSequentialGroup()  
            .addContainerGap()  
  
        .addGroup(jPanel12Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
            .addComponent(jLabel6)  
            .addComponent(min)  
            .addComponent(close5))  
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))  
);
```

```
reminderdetails.setEditable(false);  
reminderdetails.setColumns(20);  
reminderdetails.setRows(5);  
jScrollPane1.setViewportView(reminderdetails);
```

```
javax.swing.GroupLayout jPanel7Layout = new javax.swing.GroupLayout(jPanel7);  
jPanel7.setLayout(jPanel7Layout);  
jPanel7Layout.setHorizontalGroup(  
    jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addComponent(jPanel12, javax.swing.GroupLayout.DEFAULT_SIZE,  
            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
            jPanel7Layout.createSequentialGroup()  
                .addContainerGap()  
                .addComponent(jScrollPane1)  
                .addContainerGap())  
);
```

```
);

jPanel7Layout.setVerticalGroup(

    jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel7Layout.createSequentialGroup()

            .addComponent(jPanel12, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 227,
Short.MAX_VALUE)

            .addContainerGap())

        );

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel7, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel7, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );

pack();

} // </editor-fold>
```

```
private void minMouseClicked(java.awt.event.MouseEvent evt) {  
    // minimise the form  
    this.setState(JFrame.ICONIFIED);  
}
```

```
private void minMouseEntered(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(178, 102, 255));  
}
```

```
private void minMouseExited(java.awt.event.MouseEvent evt) {  
    min.setForeground(new Color(255, 255, 255));  
}
```

```
private void close5MouseClicked(java.awt.event.MouseEvent evt) {  
    //close the form  
    this.dispose();  
}
```

```
private void close5MouseEntered(java.awt.event.MouseEvent evt) {  
    close5.setForeground(new Color(178, 102, 255));  
}
```

```
private void close5MouseExited(java.awt.event.MouseEvent evt) {  
    close5.setForeground(new Color(255, 255, 255));  
}
```

```
public static void main(String args[]) {  
    try {
```

```

        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {

            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());

                break;

            }

        }

    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(ReminderPopUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(ReminderPopUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(ReminderPopUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

        java.util.logging.Logger.getLogger(ReminderPopUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    }

}

//</editor-fold>

/* Create and display the form */

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        new ReminderPopUp().setVisible(true);
    }

});

```



```
    }  
    });  
}  
}
```

CHANGEPASSWORD.JAVA

```
import java.awt.Color;  
  
import java.awt.HeadlessException;  
  
import java.sql.*;  
  
import javax.swing.BorderFactory;  
  
import javax.swing.JFrame;  
  
import javax.swing.JOptionPane;  
  
import javax.swing.border.Border;  
  
public class Change_password extends javax.swing.JFrame {  
  
    /**  
     * Creates new form Change_password  
     */  
    public Change_password() {  
        initComponents();  
        this.setLocationRelativeTo(null);  
    }  
  
    public Change_password(String u)  
    {  
        initComponents();
```

```
this.setLocationRelativeTo(null);

username.setText(u);
}

@SuppressWarnings("unchecked")
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jPanel3 = new javax.swing.JPanel();
    npwd = new javax.swing.JLabel();
    OK = new javax.swing.JButton();
    pwd = new javax.swing.JLabel();
    pw = new javax.swing.JPasswordField();
    npw = new javax.swing.JPasswordField();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    min = new javax.swing.JLabel();
    close = new javax.swing.JLabel();
    username = new javax.swing.JLabel();
    user1 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setUndecorated(true);

    jPanel1.setBackground(new java.awt.Color(204, 102, 255));

    jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));
}
```

```
jPanel1.setLayout(new java.awt.BorderLayout());

jPanel3.setBackground(new java.awt.Color(255, 204, 255));

npwd.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
npwd.setText("New Password:");

OK.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
OK.setText("OK");
OK.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        OKMouseClicked(evt);
    }
});

OK.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        OKActionPerformed(evt);
    }
});

pwd.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
pwd.setText("Current Password:");

pw.setFont(new java.awt.Font("Century", 0, 18)); // NOI18N
pw.setForeground(new java.awt.Color(153, 153, 153));
pw.setText("password");
pw.addFocusListener(new java.awt.event.FocusAdapter() {
```

```
public void focusGained(java.awt.event.FocusEvent evt) {  
    pwFocusGained(evt);  
}  
  
public void focusLost(java.awt.event.FocusEvent evt) {  
    pwFocusLost(evt);  
}  
});
```

```
npw.setFont(new java.awt.Font("Century", 0, 18)); // NOI18N  
npw.setForeground(new java.awt.Color(153, 153, 153));  
npw.setText("password");  
npw.addFocusListener(new java.awt.event.FocusAdapter() {  
    public void focusGained(java.awt.event.FocusEvent evt) {  
        npwFocusGained(evt);  
    }  
    public void focusLost(java.awt.event.FocusEvent evt) {  
        npwFocusLost(evt);  
    }  
});
```

```
jPanel2.setBackground(new java.awt.Color(102, 0, 102));
```

```
jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N  
jLabel1.setForeground(new java.awt.Color(255, 255, 255));  
jLabel1.setText("Change Password:");
```

```
min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
```

```
min.setForeground(new java.awt.Color(255, 255, 255));

min.setText("-");

min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

min.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        minMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        minMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {

        minMouseExited(evt);

    }

});


close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        closeMouseClicked(evt);

    }

    public void mouseEntered(java.awt.event.MouseEvent evt) {

        closeMouseEntered(evt);

    }

    public void mouseExited(java.awt.event.MouseEvent evt) {
```

```
        closeMouseExited(evt);
    }
});

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(140, 140, 140)
            .addComponent(jLabel1)
            .addGap(110, 110, 110)
            .addComponent(min)
            .addGap(18, 18, 18)
            .addComponent(close)
            .addGap(15, 15, 15)
        )
);
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 36,
Short.MAX_VALUE)
                    .addGap(10, 10, 10)
                )
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addComponent(close)
                    .addGap(10, 10, 10)
                )
            )
        )
);
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(min)

    .addComponent(close))

    .addGap(0, 0, Short.MAX_VALUE)))

    .addContainerGap())

);

username.setFont(new java.awt.Font("Comic Sans MS", 0, 24)); // NOI18N

username.setForeground(new java.awt.Color(102, 0, 102));

user1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icons8-user-40.png"))); //
NOI18N

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(

    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGroup(jPanel3Layout.createSequentialGroup())

            .addGap(30, 30, 30)

                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

                    .addGroup(jPanel3Layout.createSequentialGroup())

                        .addComponent(npwd)

                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
.addComponent(npw, javax.swing.GroupLayout.PREFERRED_SIZE, 220,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel3Layout.createSequentialGroup())

.addComponent(pwd)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(pw, javax.swing.GroupLayout.PREFERRED_SIZE, 220,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel3Layout.createSequentialGroup())

.addComponent(user1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 254,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(67, 67, 67)))

.addGroup(jPanel3Layout.createSequentialGroup())

.addGap(166, 166, 166)

.addComponent(OK, javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup())

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(user1)

.addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)
```



```
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(pwd)

    .addComponent(pw, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

    .addComponent(npw, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(npwd))

    .addGap(18, 18, 18)

    .addComponent(OK)

    .addContainerGap())

);

jPanel1.add(jPanel3, java.awt.BorderLayout.CENTER);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
);

pack();
}

private void OKMouseClicked(java.awt.event.MouseEvent evt) {

    String cur_p = pw.getText();

    String new_p = npw.getText();

    try{

        Class.forName("java.sql.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement stmt = con.createStatement();

        String q = "Update user set pass_word='"+new_p+"' where pass_word='"+cur_p+"'";

        if(stmt.executeUpdate(q)!=0){

            JOptionPane.showMessageDialog(null, "Password Updated!");

            this.dispose();

            HomePage h = new HomePage(username.getText());

            h.setVisible(true);

        }

        else

            JOptionPane.showMessageDialog(null, "Type correct password");

    }

    catch(HeadlessException | ClassNotFoundException | SQLException e)

    {

        JOptionPane.showMessageDialog(null, "Error while establishing connection");

    }

}
```

```
    }  
}
```

```
private void OKActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void npwFocusLost(java.awt.event.FocusEvent evt) {  
    // TODO add your handling code here:  
  
    if(npw.getText().trim().equals("") || npw.getText().trim().toLowerCase().equals("password"))  
    {  
        npw.setText("password");  
        npw.setForeground(new Color (153, 153, 153));  
    }  
  
    // remove border  
    npwd.setBorder(null);  
}
```

```
private void npwFocusGained(java.awt.event.FocusEvent evt) {  
    // TODO add your handling code here:  
  
    if(npw.getText().trim().toLowerCase().equals("password"))  
    {  
        npw.setText("");  
        npw.setForeground(Color.black);  
    }  
  
    //border for user icon  
  
    Border bu = BorderFactory.createMatteBorder(0, 0, 1, 0, Color.white);
```

```
npwd.setBorder(bu);
}

private void pwFocusLost(java.awt.event.FocusEvent evt) {
    // TODO add your handling code here:

    if(pw.getText().trim().equals("") || pw.getText().trim().toLowerCase().equals("password"))
    {
        pw.setText("password");
        pw.setForeground(new Color (153, 153, 153));
    }

    // remove border
    pwd.setBorder(null);
}

private void pwFocusGained(java.awt.event.FocusEvent evt) {
    // TODO add your handling code here:

    if(pw.getText().trim().toLowerCase().equals("password"))
    {
        pw.setText("");
        pw.setForeground(Color.black);
    }

    //border for user icon
    Border bu = BorderFactory.createMatteBorder(0, 0, 1, 0, Color.white);
    pwd.setBorder(bu);
}

private void minMouseClicked(java.awt.event.MouseEvent evt) {
```

```
// minimise the form
this.setState(JFrame.ICONIFIED);
}

private void minMouseClicked(java.awt.event.MouseEvent evt) {
    min.setForeground(new Color(178, 102, 255));
}

private void minMouseExited(java.awt.event.MouseEvent evt) {
    min.setForeground(new Color(255, 255, 255));
}

private void closeMouseClicked(java.awt.event.MouseEvent evt) {
    //close the form
    this.dispose();
}

private void closeMouseEntered(java.awt.event.MouseEvent evt) {
    close.setForeground(new Color(178, 102, 255));
}

private void closeMouseExited(java.awt.event.MouseEvent evt) {
    close.setForeground(new Color(255, 255, 255));
}

public static void main(String args[]) {
    try {
```

```
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());

                break;

            }

        }

    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Change_password.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Change_password.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Change_password.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Change_password.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    }

}

//</editor-fold>

/* Create and display the form */

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        new Change_password().setVisible(true);

    }

});
```

```
        }  
    });  
}  
  
}
```

CHANGEUSERNAME.JAVA

```
import java.awt.Color;  
  
import java.awt.HeadlessException;  
  
import java.sql.*;  
  
import javax.swing.BorderFactory;  
  
import javax.swing.JFrame;  
  
import javax.swing.JOptionPane;  
  
import javax.swing.border.Border;  
  
public class Change_username extends javax.swing.JFrame {  
  
    /**  
     * Creates new form Change_username  
     */  
    public Change_username() {  
        initComponents();  
        this.setLocationRelativeTo(null);  
    }  
  
    @SuppressWarnings("unchecked")  
  
    private void initComponents() {
```

```
jPanel1 = new javax.swing.JPanel();

jPanel3 = new javax.swing.JPanel();

nu = new javax.swing.JLabel();

cun = new javax.swing.JTextField();

OK = new javax.swing.JButton();

cu = new javax.swing.JLabel();

newusername = new javax.swing.JTextField();

jPanel2 = new javax.swing.JPanel();

jLabel1 = new javax.swing.JLabel();

min = new javax.swing.JLabel();

close = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setUndecorated(true);


jPanel1.setBackground(new java.awt.Color(204, 102, 255));

jPanel1.setBorder(javax.swing.BorderFactory.createMatteBorder(2, 2, 2, 2, new
java.awt.Color(255, 255, 255)));

jPanel1.setLayout(new java.awt.BorderLayout());


jPanel3.setBackground(new java.awt.Color(255, 204, 255));


nu.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
nu.setText("New Username:");


cun.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
```



```
cun.setForeground(new java.awt.Color(153, 153, 153));

cun.setText("username");

cun.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        cunFocusGained(evt);
    }
    public void focusLost(java.awt.event.FocusEvent evt) {
        cunFocusLost(evt);
    }
});

cun.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cunActionPerformed(evt);
    }
});

OK.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
OK.setText("OK");

OK.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        OKMouseClicked(evt);
    }
});

OK.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        OKActionPerformed(evt);
    }
});
```

```
});
```

```
cu.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
```

```
cu.setText("Current Username:");
```

```
newusername.setFont(new java.awt.Font("Cambria", 0, 18)); // NOI18N
```

```
newusername.setForeground(new java.awt.Color(153, 153, 153));
```

```
newusername.setText("newusername");
```

```
newusername.addFocusListener(new java.awt.event.FocusAdapter() {
```

```
    public void focusGained(java.awt.event.FocusEvent evt) {
```

```
        newusernameFocusGained(evt);
```

```
    }
```

```
    public void focusLost(java.awt.event.FocusEvent evt) {
```

```
        newusernameFocusLost(evt);
```

```
    }
```

```
});
```

```
newusername.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        newusernameActionPerformed(evt);
```

```
    }
```

```
});
```

```
jPanel2.setBackground(new java.awt.Color(102, 0, 102));
```

```
jLabel1.setFont(new java.awt.Font("Cambria", 1, 20)); // NOI18N
```

```
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel1.setText("Change Username:");
```

```
min.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
min.setForeground(new java.awt.Color(255, 255, 255));
min.setText("-");
min.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
min.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        minMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        minMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt) {
        minMouseExited(evt);
    }
});
```

```
close.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
close.setForeground(new java.awt.Color(255, 255, 255));
close.setText("x");
close.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
close.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        closeMouseClicked(evt);
    }
    public void mouseEntered(java.awt.event.MouseEvent evt) {
        closeMouseEntered(evt);
    }
});
```



```
.addComponent(close))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addComponent(cu)
                .addGap(18, 18, 18)
                .addComponent(cun, javax.swing.GroupLayout.PREFERRED_SIZE, 246,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addComponent(nu)
                .addGap(42, 42, 42)
                .addComponent(newusername))))
        .addGroup(jPanel3Layout.createSequentialGroup()
```

```
.addGap(141, 141, 141)

.addComponent(OK, javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup())

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(27, 27, 27)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(cu)

.addComponent(cun, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(newusername, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(nu))

.addGap(18, 18, 18)

.addComponent(OK)

.addContainerGap(25, Short.MAX_VALUE))

);

jPanel1.add(jPanel3, java.awt.BorderLayout.CENTER);
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 452, Short.MAX_VALUE)
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 219, Short.MAX_VALUE)
);

pack();
}

//check if username already exists
public boolean checkUsername(String username){

    try{

        Class.forName("java.sql.Driver");

        Connection con3 = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement st = con3.createStatement();

        String q = "Select * from user;";

        ResultSet rs3 = st.executeQuery(q);

        while(rs3.next()){

            String us1 = rs3.getString("user_name");
```

```
        if(username.equals(us1)){

            JOptionPane.showMessageDialog(null, "This username already exists");

            return true;

        }

    }

    return false;

}

catch(HeadlessException | ClassNotFoundException | SQLException e)

{

    JOptionPane.showMessageDialog(null, "Error in connectivity2 trial");

    return true;

}

}

private void cunActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}

private void cunFocusGained(java.awt.event.FocusEvent evt) {

    // TODO add your handling code here:

    if(cun.getText().trim().toLowerCase().equals("username"))

    {

        cun.setText("");

        cun.setForeground(Color.black);

    }

}
```



```
    }

    //border for user icon

    Border bu = BorderFactory.createMatteBorder(0, 0, 1, 0, Color.white);

    cu.setBorder(bu);

}

private void cunFocusLost(java.awt.event.FocusEvent evt) {

    if(cun.getText().trim().equals("") || cun.getText().trim().toLowerCase().equals("username"))

    {

        cun.setText("username");

        cun.setForeground(new Color (153, 153, 153));

    }

    // remove border

    cu.setBorder(null);

}

private void OKActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}

private void OKMouseClicked(java.awt.event.MouseEvent evt) {

    String cur_u = cun.getText();

    String new_u = newusername.getText();

    if(!checkUsername(new_u))

    {

        try{

            Class.forName("java.sql.Driver");
```

```

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/homemaker",
"root", "password");

        Statement stmt = con.createStatement();

        Statement stmt2 = con.createStatement();

        Statement stmt3 = con.createStatement();

        Statement stmt4 = con.createStatement();

        String q = "Update user set user_name='"+new_u+"' where user_name='"+cur_u+"";

        String q2 = "Update user_data set user_name='"+new_u+"' where User_name='"+cur_u+"";

        String q3 = "Update categories set user_name='"+new_u+"' where User_Name='"+cur_u+"";

        String q4 = "Update eventtable set user_name='"+new_u+"' where User_Name='"+
+cur_u+"";

        if(stmt.executeUpdate(q)!=0 && stmt2.executeUpdate(q2)!=0 &&
stmt3.executeUpdate(q3)!=0 && stmt4.executeUpdate(q4)!=0){

            JOptionPane.showMessageDialog(null, "Username Updated!");

            this.dispose();

            HomePage h = new HomePage(new_u);

            h.setVisible(true);

        }
        else

            JOptionPane.showMessageDialog(null, "Type correct username");

    }

    catch (Exception e)

    {

        JOptionPane.showMessageDialog(null, "Error while establishing connection");

    }

}

}

private void newusernameFocusGained(java.awt.event.FocusEvent evt) {

```

```
if(newusername.getText().trim().toLowerCase().equals("newusername"))
{
    newusername.setText("");
    newusername.setForeground(Color.black);
}

//border for user icon
Border bu = BorderFactory.createMatteBorder(0, 0, 1, 0, Color.white);
nu.setBorder(bu);
}

private void newusernameFocusLost(java.awt.event.FocusEvent evt) {
    if(newusername.getText().trim().equals("") ||
newusername.getText().trim().toLowerCase().equals("newusername"))
    {
        newusername.setText("newusername");
        newusername.setForeground(new Color (153, 153, 153));
    }

    // remove border
    nu.setBorder(null);
}

private void newusernameActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void minMouseClicked(java.awt.event.MouseEvent evt) {
    // minimise the form
```

```
        this.setState(JFrame.ICONIFIED);
    }

    private void minMouseEntered(java.awt.event.MouseEvent evt) {
        min.setForeground(new Color(178, 102, 255));
    }

    private void minMouseExited(java.awt.event.MouseEvent evt) {
        min.setForeground(new Color(255, 255, 255));
    }

    private void closeMouseClicked(java.awt.event.MouseEvent evt) {
        //close the form
        this.dispose();
    }

    private void closeMouseEntered(java.awt.event.MouseEvent evt) {
        close.setForeground(new Color(178, 102, 255));
    }

    private void closeMouseExited(java.awt.event.MouseEvent evt) {
        close.setForeground(new Color(255, 255, 255));
    }

    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
```

```
        javax.swing.UIManager.setLookAndFeel(info.getClassName());

        break;
    }
}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Change_username.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Change_username.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Change_username.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Change_username.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    }

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Change_username().setVisible(true);
    }
});
}
```