HOUSEBOAT MANAGEMENT SYSTEM

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ABSTRACT

The System has been designed and developed to provide customers with an efficient and user-friendly portal for House Boat Reservation. The system mainly focuses on the customer and the boat owners. Boat owners can register and their boats to manage the boats and book the house boat with ease. A user can login or signup into the system with their details as an admin, Boat owner or customer where they will be provided with different access levels.

The house boat owner can register in the system providing all details including his licence number. They will be able to register any number of boats owned by them with the boat id. He can manage the boat fare. They will be able to add boats or delete the boat if they required.

The customer needs to create a new account or to sign in for booking house boats. The customer will be able to book the boat according to the fare and the availability. After the booking the customer will be provided with the payment option. The customer can also update or delete the booking.

The admin will have the ability to manage both the registration of the owner and the booking of the house boats by the customers. The admin will have the access to delete or add new boat registration. The admin can also be able to modify the booking by any customer.

We have successfully created a java project for houseboat management where the customers can login or create account which will be stored in the database and also can retrieve information from the database and the boat owners can successfully add their boat to the booking system. Using this the customers can book their trip with ease and the boat owners can manage their boat details smoothly.

INDEX

S.No	CONTENT	PAGE
1	INTRODUCTION	4
2	SYSTEM DESIGN	5
3	RESULTS	17
4	CONCLUSION	29
5	REFERENCES	29
6	APPENDIX	30

INTRODUCTION

The system has been designed and developed to provide customers with an efficient and user-friendly portal for Houseboat reservation. Here, the boat owners can register and manage their boats and the user can easily book these boats on any particular date. A common login page is provided for all the users and are further redirected to their respective pages.

PROBLEM STATEMENT:

An agency keeps track of house boats, its owners and the customers who rented it. An owner identified by owner number, name and city can have many house boats and a house boat is owned by only 1 person. A house boat is identified by an id, name and capacity (number of people it can hold). A customer can rent many house boats and a house boat can be rented by many customers on different dates.

Design a java application which allows customers and owners of the house boats efficiently book and rent the houseboats for the tourism promotion.

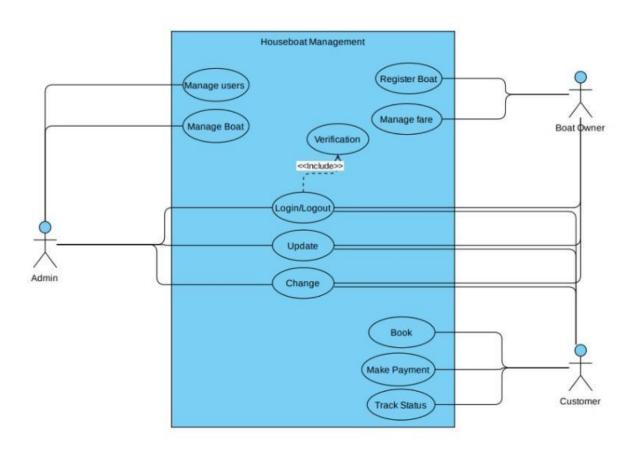
The customer can create a new account and sign-in using the existing account for both booking the houseboat and tracking the booking status. They will be redirected to the customer page from where they can book houseboats. After booking, they are redirected to the payment page. Then for tracking the status of their booking report, a separate page is provided.

The houseboat owner can also create account and sign-in in the same way as that of the customer. They are then redirected to the owner's page from where they can register their boats. They can register any number of boats and can also manage the boat's fare and other facilities. The registration details will be displayed on owner's page.

The admin can manage both the customer details and the boat details and can make necessary updates. After logging-in, they are redirected to the admin panel.

SYSTEM DESIGN

USECASE DIAGRAM:



USE CASE DESCRIPTION:

USE CASE	MANAGE USERS
ACTOR	ADMIN
INPUT	CUSTOMER DETAILS
OUTPUT	SYSTEM WILL VERIFY AND UPDATE THE DETAILS
DESCRIPTION	THE SYSTEM WILL VERIFY THE DETAILS AND UPDATE THE CORRESOPNDING CUSTOMER DETAILS AND THEIR BOOKING DETAILS

USE CASE	MANAGE BOATS
ACTOR	ADMIN
INPUT	BOAT DETAILS

OUTPUT	SYSTEM WILL VERIFY AND UPDATE THE DETAILS
DESCRIPTION	THE SYSTEM WILL VERIFY THE DETAILS AND UPDATE THE CORRESOPNDING BOAT DETAILS AND THEIR BOOKING DETAILS. THIS HELPS THE ADMIN TO NOT ONLY UPDATE BUT ALSO DELETE THE BOAT DETAILS IF REQUIRED

USE CASE	LOGIN
ACTOR	ADMIN , CUSTOMER , BOAT OWNER
INPUT	PASSWORD AND USER NAME
OUTPUT	DETAILED VERIFIED OR NOT
DESCRIPTION	THE SYSTEM WILL CHECK THE USER NAME AND PASSSWORD. THE SYSTEM WILL VALIDATE THE INPUTS AND GRAND ACCESS IF THE DETAILS ARE CORRECT AND DENY IF THE DETAILS ARE WRONG.

USE CASE	UPDATE
ACTOR	ADMIN , CUSTOMER , BOAT OWNER
INPUT	DETAILS OF ADMIN CUSTOMER OR THE BOAT OWNER
OUTPUT	DETAILES UPDATED
DESCRIPTION	AFTER THE LOGIN PROCESSS IF THE ACTOR WILL BE ABLE TO UPDATE AND CHANGE THEIR DETAILS IF REQUIRED.

USE CASE	UPDATE
ACTOR	ADMIN , CUSTOMER , BOAT OWNER
INPUT	DETAILS OF ADMIN CUSTOMER OR THE BOAT OWNER
OUTPUT	DETAILES UPDATED
DESCRIPTION	AFTER THE LOGIN PROCESSS IF THE ACTOR WILL BE ABLE TO UPDATE AND CHANGE THEIR DETAILS IF REQUIRED.

USE CASE	REGISTER BOAT
ACTOR	BOAT OWNER
INPUT	BOAT DETAILS SUCH AS BOAT LICENCE NUMBER AND CAPACITY

OUTPUT	BOAT REGISTERED SUCCESSFULLY
DESCRIPTION	THE BOAT OWNER CAN ADD THE BOAT DETAILS SUCH AS THE BOAT LICENCE NUMBER, BOAT CAPACITY FOR THE CUSTOMERS TO CHOOSE FROM

USE CASE	MANAGE FARE
ACTOR	BOAT OWNER
INPUT	FARES FOR THE SELECTED ROUTE
OUTPUT	DETAILES UPDATED
DESCRIPTION	THE BOAT OWNER CAN ADD, UODATE OR CHANGE THE FARES OF THE CORRESPONDING ROUTE THE CUSTOMER SELECTS.

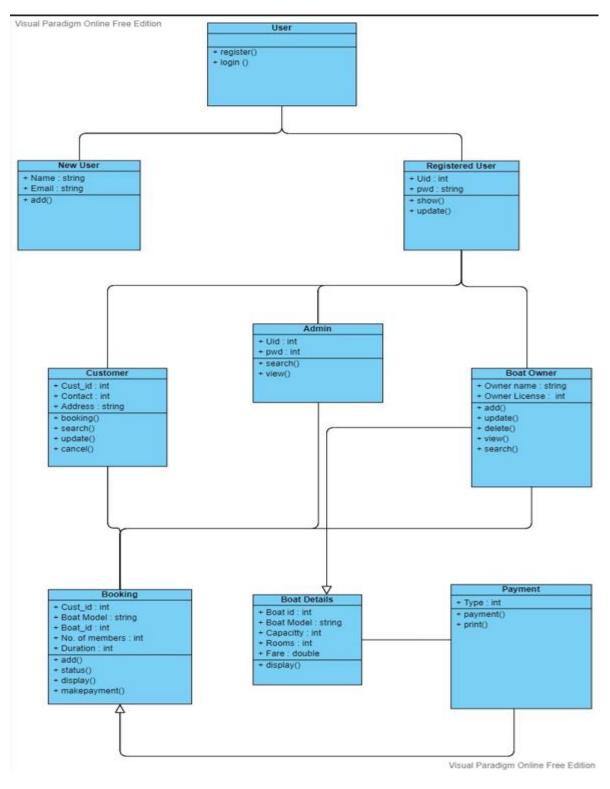
USE CASE	BOOK
ACTOR	CUSTOMER
INPUT	DETAILS OF CUSTOMER, DATE, BOAT SELECTION, ROUTE SELECTION
OUTPUT	BOOKING SUCCESSFULL
DESCRIPTION	THE CUSTOMERS WILL INPUT AND SELECT THE DETAILS FOR BOOKING SUCH AS CUSTOMER DETAILS ,DATE, ROUTE FOR THE SUCCESSFUL COMPLETION OF THE HOUSEBOAT BOOKING

USE CASE	PAYMENT
ACTOR	CUSTOMER
INPUT	BILLING METHOD, PAYMENT DETAILS
OUTPUT	PAYMENT SUCCESSFULL
DESCRIPTION	AFTER THE BOOKING PROCESS IS THE BILLING PROCESS WHERE THE CUSTOMER PAYS THE REQUIRED FARE ACCORDING TO THE ROUTE THE HOUSE BOAT THE CUSTOMER SELECTED

USE CASE	TRACK
ACTOR	CUSTOMER
INPUT	BOOKING DETAILS
OUTPUT	BOOKING STATUS

DESCRIPTION	AFTER THE COMPLETE BOOKING PROCESS THE CUSTOMER CAN CHECK THE BOOKING STATUS
	SYCH AS WHETHER THERES ANY DELAY OR CANCELLATION OF THEIR BOOKING

CLASS DIAGRAM:



User

+register()	To register new users
+login()	To sign-in by the registered users.

New User

+Name To store the name of the user	
+Email	To store the email-id of the user
+add()	To add the new user

Registered User

+Uid	To store the username of the registered user.
+pwd	To store the password of registered user
+show()	To display the user details of the registered
	user
+update()	To update user details

Admin

+Uid To store the username of admin		
+pwd	To store the password of admin	
+search()	To search for a registered user	
+view()	To display the user details	

Customer

+Cust_id	To store the username of customer
+Contact	To store the password of customer
+Address	To store the address of the customer
+booking()	To book for a boat
+search()	To search for available boats
+update()	To update customer details
+cancel()	To cancel the booking

Boat Owner

+Owner name	To store the username of Boat owner	
+Owner_License	To store the license.no of boat owner	
+add()	To add a boat	
+delete()	To delete an existing boat	
+update()	To update boat owner details	
+view()	To view the registered boat details	
+search()	To search for the details of a specific boat	

Booking

+Cust_id	To store the username of customer	
+Boat_Model	To store the model name of the boat	
+Boat_id	To store the id of the boat	
+No_of_members	To store the no of passengers	
+Duration	To store the duration of boating	
+add()	To book for a boat	
+status()	To view the status of the customer	
+display()	To display the booking details	
+makepayment()	To make the payment of booking	

Boat details

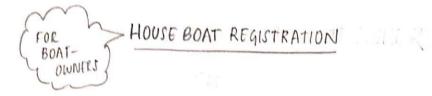
+Boat_id	To store the Boat ID		
+Boat_Model	To store the model name of the boat		
+Capacity	To store maximum no of persons that can be		
	accommodated		
+Rooms	To store the no of rooms available		
+Fare	To store the fixed rate of the boat		
+display()	To display the boat details		

Payment

+Type	To store the mode of payment		
+payment()	To confirm the payment		
+print()	To view the payment slip		

VISUAL LAYO	LOGIN Login			
1. 2.	OR Create Acc	ount		
2.		LOGIN		
	Username:			
	Pauword:		Login	n skow paesword

(Foxomre Create	Account	LOGIN (
- Firstname:		
Lastname:		
- Age:	-	
City:		
— State:		\Box
- Phone Number:		
- Username:		
- Password:		
Confirm password:		
	Create Account	



OWNERNME:	FARE
BOATLID :	RATE:
MODEL :	
TYPE :	CAPACTTY
USERNAME:	ROOMS:
PASSWORD :	MAX :
CO : PAIS WOKD;	ALCOHO.
BOAT : SPECIFICATION	CREATE

\equiv				
	BOOK			
	STATUS			
	UPDATE	CHANNER	DETATI	C

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	CUSTOMER CUSTOMER CUSTOMER				
BOOKING	HOUSEBOAT.	NAME M	EMBER	DATE	DURATION
STATUS		İ		1	
		1			

CUSTOMER NAME : -

BOOKING

1		•	ISEBOAT
_	 		

PASSENGER DETAILS

NAME : AGE : RELATION :

ADULT (12+ Ys):[CHILD (6-12/3): DATE :

DURATION: 6.

SUBMIT

BACK TO LOGIN

BOAT OWNER PANEL

ADD BOAT DELETE UPDATE

7.

	BOATIO	OWNER NAME	CAPACITY	FARE	NO-OF	EMPLOYEES
	1	i	, t	j		
			,	1		
			,	1		
		!	1	1		
		1		1		
	j ;	1	1	1		
	1 1	1	1	1		
BOAT DE		AOMIN	PANEL		1	UPDATE
	HOUSE BOAT	OWNER NAME	CAPACIT	Y FA	₹ F	
	1	,		!		
	[TABL	E SHOWI	NG BOAT	PETAL	เป	
	1	!		1		
CUSTOME	R DETAIL	s:				
6	HOUSE BOAT	MEMBER	DATE	DURA	ION	UPDATE
	_	i L			67	
1	TABLE	SHOMING	LOSTOM	EK DET	AILS)	

The front-end and back-end tools used:

- We used Java Eclipse as our IDE for doing the project.
- We implemented Jframe to design the layout of the pages.
- The javax.swing package provides classes for java swing API such as JButton, JTextField, JTextArea, JRadioButton, JCheckbox, JMenu, JColorChooser etc.
- For carrying out the background connectivity with the database, we used the JDBC API.

RESULT

& LOGIN PAGE

• LOGIN BUTTON

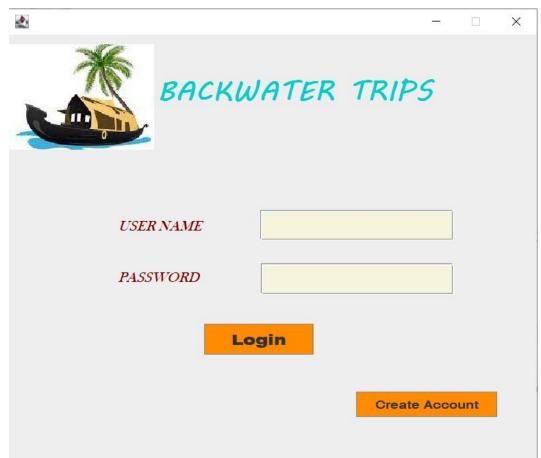
```
JButton btnNewButton = new JButton("Login\r\n");
btnNewButton.setBackground(new Color(255, 140, 0));
btnNewButton.addActionListener(new ActionListener() {
                     ressWarnings("deprecation")
         public void actionPerformed(ActionEvent e) {
                           Class.forName("org.postgresql.Driver");
                           Connection connection = DriverManager.getConnection("jdbc:postgresql://localhost:5432/houseboat","postgres","andumadom");
String sql1 = "SELECT * FROM login where username = ? and password = ? ";
String sql2 = "SELECT authority from login where username = ?";
                  PreparedStatement pst=connection.prepareStatement(sql1);
                  PreparedStatement pst1 = connection.prepareStatement(sql2);
                  pst.setString(1, user_name.getText());
pst.setString(2, passwordField.getText());
pst1.setString(1, user_name.getText());
                  ResultSet rs = pst.executeQuery();
ResultSet rs1 = pst1.executeQuery();
                            int count = 0;
while(rs.next()) {
                                   count = count + 1;
                                   if(count == 1)
                                             if(rs1.next()) {
                                           System.out.print("Name of the Employee: "+rs1.getString("authority")+", ");
String strl = rs1.getString("authority");
JOptionPane.showMessageDialog(null, "Password and username is correct");
if(strl == "customer") {
customerdetails customerpage = new customerdetails();
customerdetails customerpage.setVisible(true);
System.out.println("customer");
dispose();
                                             dispose();
                                              dispose();
                                               if(str1=="admin") {
   Admin adminpage = new Admin();
   adminpage.setVisible(true);
                   int count = 0;
while(rs.next()) {
                         count = count + 1;
                         if(count == 1) {
                                System.out.print("Name of the Employee: "+rsl.getString("authority")+", ");
String strl = rsl.getString("authority");
)OptionPane.showlessogeDialog(null, "Password and username is correct");
if(strl = "customer") {
customeredails customerpage = new customerdetails();
customerpage.setVisible(true);
System.out.println("customer");
dispose();
                                 if(str1 == "owner") {
    //tothNedButton.addActionListener(new ActionListener() {};
    ownerpg ownerspage = new ownerpg();
    ownerspage.setVisible(true);
    dispose();
                                 }
if(str1=="admin") {
  Admin adminpage = new Admin();
  adminpage.setVisible(true);
```

• CREATE ACCOUNT

```
btnNewButton.setFont(new Font("Swis721 BlkEx BT", Font.PLAIN, 17));
btnNewButton.setBounds(228, 338, 128, 36);
contentPane.add(btnNewButton);

JButton btnNewButton_1 = new JButton("Create Account");
btnNewButton_1.setBackground(new Color(255, 140, 0));
btnNewButton_1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        createaccount accpage = new createaccount();
        accpage.setVisible(true);
        dispose();

}
});
```



* CREATE ACCOUNT

CREATE ACCOUNT BUTTON

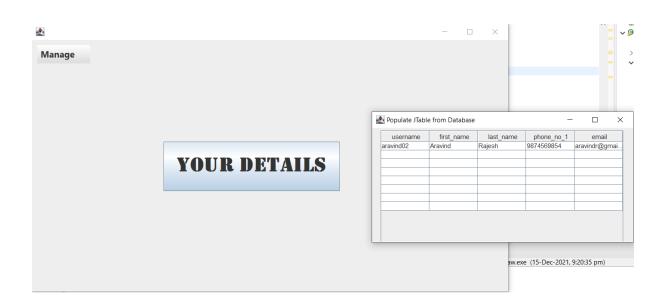
```
133 JButton createbtn = new JButton("CREATE");
134 createbtn.setForeground(Color.BLACK);
135 createbtn.setBackground(Color.LIGHT_GRAY);
136 createbtn.setFont(new Font("Verdana", Font.BOLD, 18));
137©createbtn.addActionListener(new ActionListener() {
6138@public void actionPerformed(ActionEvent e) {
 139
140
141
142
143
                               Class.forName("org.postgresql.Driver");
                     Connection connection = DriverManager.getConnection("jdbc:postgresql://localhost:5432/houseboat", "postgres", "andumadom");
String sql1 = "insert into login( username,first_name,last_name,password,phone_no_1,phone_no_2,email) values(?,?,?,?,?)";
PreparedStatement pst=connection.prepareStatement(sql1);
  144
145
146
147
                    pst.setString(1, us_name.getText());
pst.setString(2, f_name.getText());
pst.setString(3, l_name.getText());
pst.setString(4, passwordField_l.getText());
pst.setString(5, ph_1.getText());
pst.setString(6, ph_2.getText());
pst.setString(7, email.getText());
  148
149
150
151
152
153
154
155
156
157
158
159
                     ResultSet rs1 = pst.executeQuery();
                     rs1.close();
  160
161
                     pst.close();
connection.close();
  162
.64
                    catch(Exception e1)
 .65
                    {
                              JOptionPane.showMessageDialog(null, e1);
System.out.println("unknown error");
 .66
.67
.68
.69 }
70 });
```

2			-	×
	Register			
Username				
First Name		Last Name		
Password				
Phone.No		Phone.No		
Email				
	○ Customer	Owner		
	CREATE		Return	

& CUSTOMER DETAILS

YOUR DETAILS BUTTON

```
JButton btnNewButton_1 = new JButton("YOUR DETAILS");
btnNewButton_1.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
               try {
                      Connection connection = DriverManager.getConnection("jdbc:postgresql://localhost:5432/houseboat","postgres","andumadom");
String query = "SELECT * FROM login where authority = 'customer'";
                          java.sql.Statement stm = connection.createStatement();
ResultSet res = stm.executeQuery(query);
                          String columns[] = { "username", "first_name", "last_name", "phone_no_1", "email" };
String data[][] = new String[8][5];
                         int i = 0;
while (res.next()) {
   String id = res.getString("username");
   String f_name = res.getString("first_name");
   String l_name = res.getString("last_name");
   String phone_no_1 = res.getString("phone_no_1");
   String email = res.getString("email");
   data[i][0] = id + "";
   data[i][1] = f_name;
   data[i][2] = l_name;
   data[i][3] = phone_no_1;
   data[i][4] = email;
                              i++;
                          }
                            DefaultTableModel model = new DefaultTableModel(data, columns);
                            JTable table = new JTable(model);
table.setShowGrid(true);
                             table.setShowVerticalLines(true);
                            JScrollPane pane = new JScrollPane(table);
JFrame f = new JFrame("Populate JTable from Database");
JPanel panel = new JPanel();
                             panel.add(pane);
                             f.getContentPane().add(panel);
f.setSize(500, 250);
f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                             f.setVisible(true);
                 } catch (HeadlessException e1) {
                         // TODO Auto-generated catch block
                e1.printStackTrace();
} catch (SQLException e1) {
// TODO Auto-generated catch block
                        e1.printStackTrace();
});
```



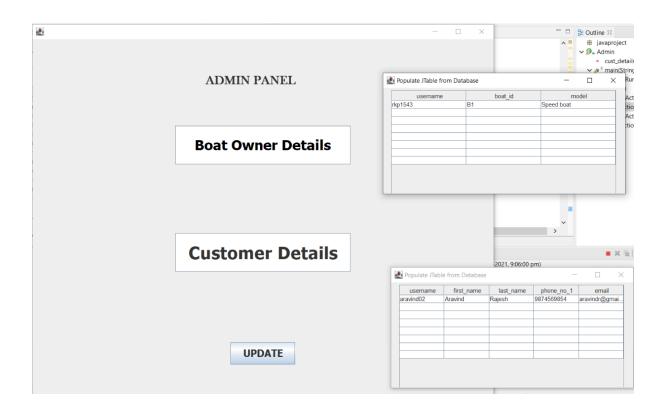
ADMIN PANEL

• BOAT OWNER DETAILS BUTTON

```
JButton btnNewButton_1 = new JButton("Boat Owner Details");
btnNewButton_1.setForeground(Color.BLACK);
btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 28));
btnNewButton_1.setBackground(new Color(245, 222, 179));
btnNewButton_1.addActionListener(new ActionListener() {
   public void actionPerformed(ActionEvent e) {
                       Connection connection = DriverManager.getConnection("jdbc:postgresql://localhost:5432/houseboat","postgres","andumadom");
String query = "SELECT * FROM boat_registration";
                            java.sql.Statement stm = connection.createStatement();
                           ResultSet res = stm.executeQuery(query);
                           String columns[] = { "username", "bo
String data[][] = new String[8][3];
                                                                                         "boat_id", "model" };
                          int i = 0;
while (res.next()) {
   String id = res.getString("username");
   String nom = res.getString("boat_id");
   String model = res.getString("model");
   data[i][0] = id + "";
   data[i][1] = nom;
   data[i][2] = model;
   i...
                              i++;
                           DefaultTableModel model = new DefaultTableModel(data, columns);
                           JTable table = new JTable(model);
table.setShowGrid(true);
                           table.setShowWerticalLines(true);
JScrollPane pane = new JScrollPane(table);
JFrame f = new JFrame("Populate JTable from Database");
JPanel panel = new JPanel();
                           panel.add(pane);
f.getContentPane().add(panel);
                            f.setSize(500, 250);
f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
               f.setVisible(true);
} catch (HeadlessException e1) {
                       // TODO Auto-generated catch block
e1.printStackTrace();
               } catch (SQLException e1) {
   // TODO Auto-generated catch block
   e1.printStackTrace();
       }
});
                ++on 1 co+Dounds/274 174 252 771.
```

CUSTOMER DETAILS BUTTON

```
DefaultTableModel model = new DefaultTableModel(data, columns);
              JTable table = new JTable(model);
              table.setShowGrid(true);
              table.setShowVerticalLines(true);
              JScrollPane pane = new JScrollPane(table);
              JFrame f = new JFrame("Populate JTable from Database");
              JPanel panel = new JPanel();
              panel.add(pane);
              f.getContentPane().add(panel);
              f.setSize(500, 250);
              f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
              f.setVisible(true);
        } catch (HeadlessException e1) {
            // TODO Auto-generated catch block
            e1.printStackTrace();
        } catch (SQLException e1) {
            // TODO Auto-generated catch block
            e1.printStackTrace();
        }
});
```



*** OWNER PAGE**

• ADD BOAT BUTTON

```
92 JButton addboat = new JButton("Add Boat");
93 addboat.setFont(new Font("Bookman Old Style", Font.BOLD | Font.ITALIC, 18));
94© addboat.addActionListener(new ActionListener() {
95© public void actionPerformed(ActionEvent e) {
96 boatregistration br = new boatregistration();
97 br.setVisible(true);
98 br.setResizable(false);
99 dispose();
90 }
91 });
92 addboat.setBounds(585, 22, 146, 44);
93 contentPane.add(addboat);
```

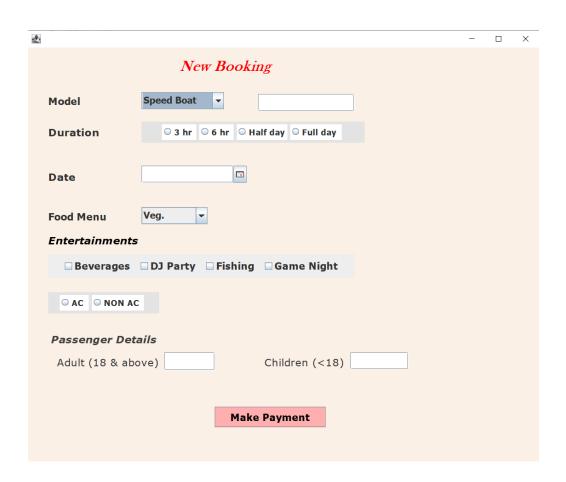
DELETE BUTTON



*** BOOKING PAGE**

MAKE PAYMENT BUTTON

```
JButton btnNewButton = new JButton("Make Payment");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
               try {
               String value1 =(String)comboBox1.getSelectedItem();//model combobox
               String value2 =(String)comboBox2.getSelectedItem();//food menu combox
                System.out.println(value1+value2);
                Date date=dateChooser.getDate();//date
                   System.out.println(date);
                   //duration radibutton
           String duration = null;
                       if(t1.isSelected()){
                            duration =t1.getText();
                       else if(t2.isSelected()){
                            duration =t2.getText();
                       else if(t3.isSelected()){
                            duration =t3.getText();
                       else if(t4.isSelected()){
                            duration =t4.getText();
                       System.out.println(duration);
                  -- /--- --
               ac/non ac
                     String cooler = null;
                                     if(f1.isSelected()){
                                           cooler =f1.getText();
                                     else if(f2.isSelected()){
                                           cooler =f2.getText();
                       System.out.println(cooler);
    // entertainments checkbox
                     String partyitem1= null,partyitem2=null,partyitem3=null,partyitem4=null;
                     if( check1.isSelected()){
                          partyitem1=check1.getText();
                         }
                     if(check2.isSelected()){
                          partyitem2 =check2.getText();
                     if(check3.isSelected()){
                         partyitem3 =check3.getText();
                      if(check4.isSelected()){
                          partyitem4 =check4.getText();
                     System.out.println(partyitem1+" "+partyitem2+" "+partyitem3+" "+ partyitem4);
```



PAYMENT

• PAY BUTTON

```
JButton btnNewButton = new JButton("PAY");
btnNewButton.addActionListener(new ActionListener() {
   public void actionPerformed(ActionEvent e) {
        try {
            Class.forName("org.postgresql.Driver");
        }
}
               \textbf{Connection connection = DriverManager.} \textit{getConnection} ("jdbc:postgresql://localhost:5432/houseboat", "postgres", "andumadom"); \\
               String sql = "SELECT password from login where password=?";
                        PreparedStatement pst=connection.prepareStatement(sql);
                        pst.setString(1,passwordField.getText());
                        ResultSet rs = pst.executeQuery();
                        int count = 0;
while(rs.next()) {
                            count = count + 1;
                             if(count == 1)
                                 JOptionPane.showMessageDialog(null, "Password is correct");
                                                 else if(count>1)
159
160
                                                      JOptionPane.showMessageDialog(null, "redundancy detected");
161
162
                                                 else
164
                                                       JOptionPane.showMessageDialog(null, "Incorrect credentials");
165
167
                                            rs.close();
168
169
                           } catch (ClassNotFoundException e1) {
 170
                                 // TODO Auto-generated catch block
e1.printStackTrace();
171
                           } catch (SQLException e1) {
   // TODO Auto-generated catch block
   e1.printStackTrace();
172
174
175
176
177
                           customerdetails accpage = new customerdetails();
178
179
                           accpage.setVisible(true);
180
                });
181
PAYMENT
                 Mode of Payment
                                                                                     ○ CREDIT CARD ○ DEBIT CARD ○ UPI
                 Confirm Password
                                                             *****
                                                                                                           ☐ I'M NOT A ROBOT
                                                                                                                               Message
                                                                                                                               Password is correct
                                    TOTAL PRICE
                                                                                                    PAY
                                                                                                                                               ОК
```

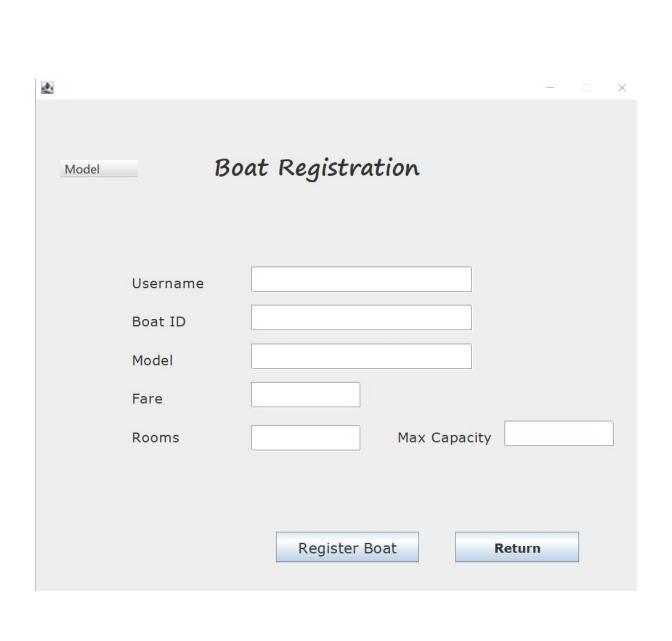
***** BOAT REGISTRATION

• REGISTER BOAT BUTTON

```
JButton reg boat = new JButton("Register Boat");
1479
1489
             reg_boat.addActionListener(new ActionListener() |
public void actionPerformed(ActionEvent e) {
 149
                         try {
                              Class.forName("org.postgresql.Driver");
                         Connection connection = DriverManager.getConnection("jdbc:postgresql://localhost:5432/houseboat", "postgres", "andumadom");
String sql1 = "insert into boat_registration(max_capacity,rooms,fare,model,boat_id,username) values(?,?,?,?,?)";
PreparedStatement pst=connection.prepareStatement(sql1);
                        pst.setString(1, max_capacity.getText());
pst.setString(2, rooms.getText());
pst.setString(3, fare.getText());
pst.setString(4, model.getText());
pst.setString(5, boat_id.getText());
pst.setString(6, u_name.getText());
160
161
 164
                         int rs1 = pst.executeUpdate();
                         JOptionPane.showMessageDialog(null, "values updated");
ownerpg ownerspage = new ownerpg();
ownerspage.setVisible(true);
 170
                         dispose();
                         //return rs1;
//rs1.close();
                         pst.close();
                         connection.close();
178
179
                                                catch(Exception e1)
180
181
                                                             JOptionPane.showMessageDialog(null, e1);
182
                                                            System.out.println("unknown error");
183
                                                }
184
                                    }
185
                        });
```

RETURN BUTTON

```
213
        JButton btnNewButton = new JButton("Return");
214⊖
        btnNewButton.addActionListener(new ActionListener() {
215⊖
            public void actionPerformed(ActionEvent e) {
216
217
                 ownerpg ownerpage = new ownerpg();
218
                ownerpage.setVisible(true);
219
                dispose();
220
        });
221
        btnNewButton.setFont(new Font("Verdana", Font.BOLD, 16));
222
223
        btnNewButton.setBounds(545, 561, 161, 40);
224
        contentPane.add(btnNewButton);
225
226
227 }
```



CONCLUSION

In this project we were successfully able create a java project which implements various API's such as java swings and JDBC API to retrieve and export boat owner and customer details into a database.

With this system a customer login, create account and make a booking with ease, wherein the boat owner can add any number or delete any number of boats. The admin act as a supervisor who has the authority to regulate boat owners and check information of the customer and the boat owners.

Our future aim is to release new updates which will make the system faster and more efficient. We will also make the app connected to the internet. Our ultimate aim is to make a project which will meet the industry standards and have a chance to compete professional app developers.

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- ✓ https://www.meritschool.com/aprender-ingles/frases-vida-ingles/?cid=175&shop=java+spring+tutorialspoint&xi=1&xc=29&pr=72.99&you=0
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- ✓ https://www.guru99.com/java-tutorial.html
- ✓ https://www.youtube.com/watch?v=niJ1tANWwFk

APPENDIX

4 GITHUB LINK

1. ABHIJITH SANTHOSH NARAYANAN

https://github.com/abhijith8201/Houseboatmanagementsystem

2. ARAVIND RAJESH

 $\frac{\text{https://github.com/arav02/Houseboat-Management-System?classId=ffd2e566-2f59-4142-9193-6ea52f9687ce\&assignmentId=15e57631-e285-4e2b-9223-ed91a908c452\&submissionId=3ef2666d-fe16-4dbb-448a-a7be2d1ad7e1\&classId=ffd2e566-2f59-4142-9193-6ea52f9687ce\&assignmentId=15e57631-e285-4e2b-9223-ed91a908c452\&submissionId=3ef2666d-fe16-4dbb-448a-a7be2d1ad7e1$

3. ROHITH K P

https://github.com/rkp-1801/HOUSEBOAT-MANAGEMENT