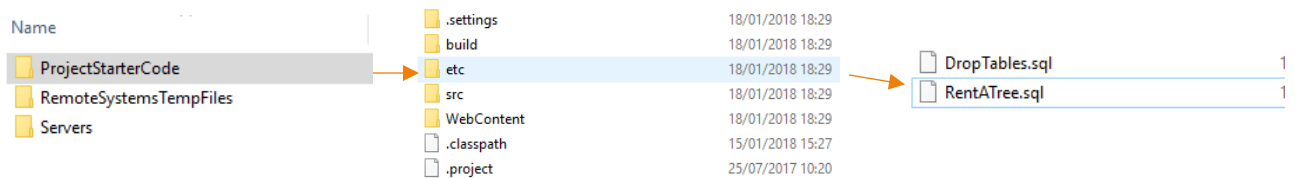# RentATree User Guide

SETUP

Unzip the archive file and navigate to ProjectStarterCode > etc . Open a cmd prompt window for the 'etc' folder and connect to SQLPlus. Run the files RentATree.sql to create and insert preliminary details into the database. Run a commit command thereafter.

Name				
	.settings	18/01/2018 18:29		
	build	18/01/2018 18:29		
ProjectStarterCode	etc	18/01/2018 18:29	DropTables.sql	1
RemoteSystemsTempFiles	src	18/01/2018 18:29	RentATree.sql	1
Servers	WebContent	18/01/2018 18:29		
	.classpath	15/01/2018 15:27		
	.project	25/07/2017 10:20		

Import the file into Eclipse and navigate to ProjectStarterCode > Java Resources > src > util to open the Junit test class called AccountHandlerTest. Run this test class and then **comment out the method updateAccountTest() at the bottom of the test file**. This allows us to hash the passwords in the database.

UpdateAccoutTest() in test class AccountHandlerTest

```
142
143⊖ @Test
144 public void updateAccountTest() {
145 AccountHandler.updateAccountPasswords("password");
146
147     try (Connection con = DbConnector.getConnection();
148             PreparedStatement ps = con
149                     .prepareStatement("SELECT accountId, password FROM Account");) {
150         ResultSet resultSet = ps.executeQuery();
151         if (resultSet.next()) {
152             int createdUserId = resultSet.getInt("AccountID");
153             System.out.println(
154                     "UserID: " + createdUserId + " Has Hashed Password:" + resultSet.getString("password"));
155         }
156     } catch (SQLException e) {
157         // TODO Auto-generated catch block
158         e.printStackTrace();
159     }
160 }
```

CONNECT TO THE DATABASE

Navigate to Java Resources > util > DbConnector. Find line 32 and ensure the static field PASSWORD is set as your Oracle password.

```java
20  */
21  public class DbConnector {
22
23      private static final String JDBC_DRIVER = "oracle.jdbc.driver.OracleDriver";
24
25      /*
26       *  Alter the details below to match your own connection details
27       */
28
29      private static final String DB_URL = "jdbc:oracle:thin:@localhost:1521:orcl";
30
31      private static final String USER = "SYS AS SYSDBA";
32      private static final String PASSWORD = "password";
33
34      // Have we called the registerOjdbcDriver() method?
35      private static boolean registered = false;
36
37      /**
38       *
39       */
```

RUNNING THE APPLICATION

Navigate to index.jsp; this is located in ProjectStarterCode > WebContent. Run this this file on the Tomcat 9.0 server and you should arrive at the RentATree homepage.
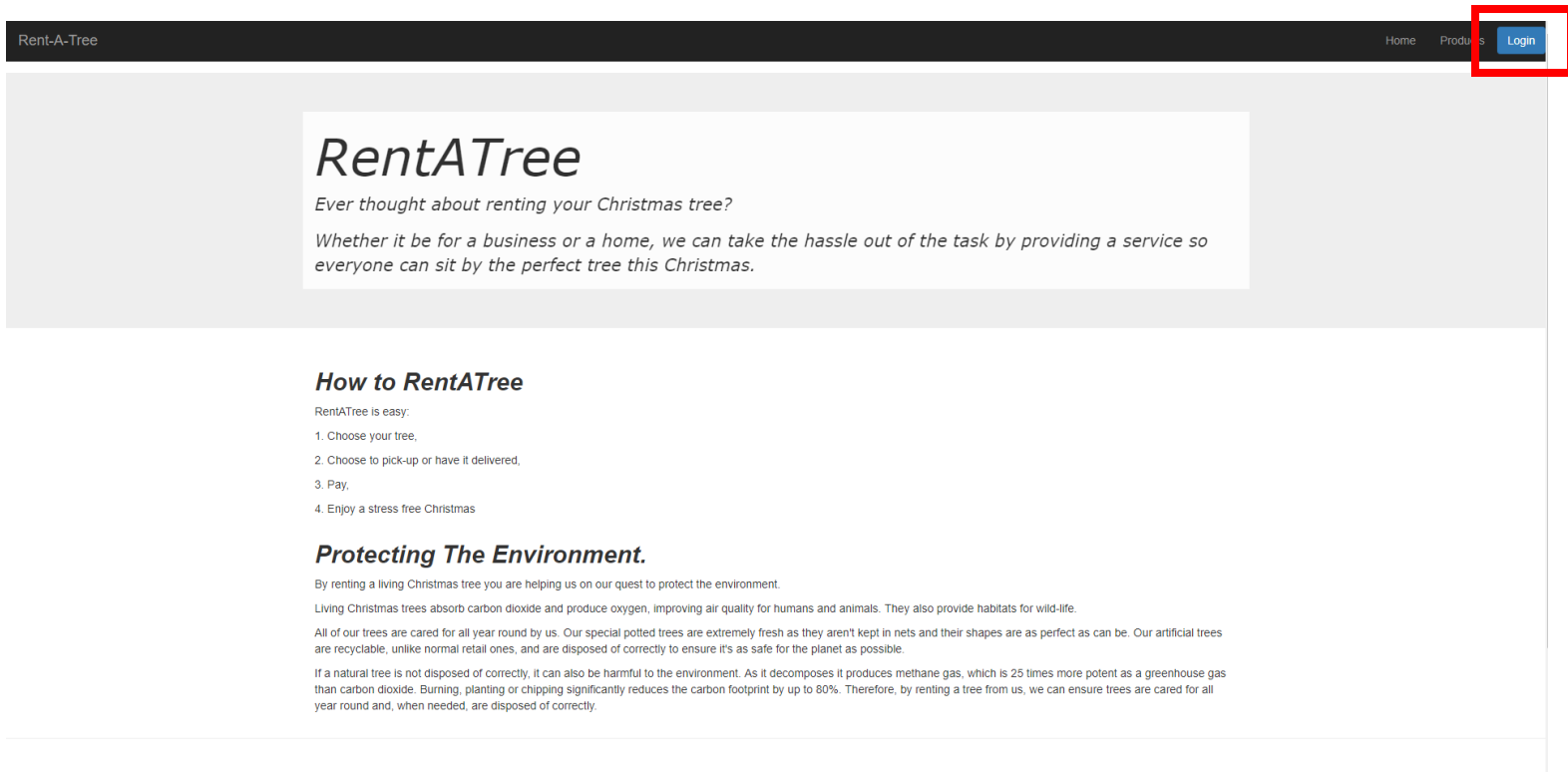
The button in the login bar triggers a modal which captures login data. Our application doesn't yet support new user registration, so for now, you will be able to log into an existing account. Use dummy data graham.hall@hotmail.com as the username, and password as the corresponding password.
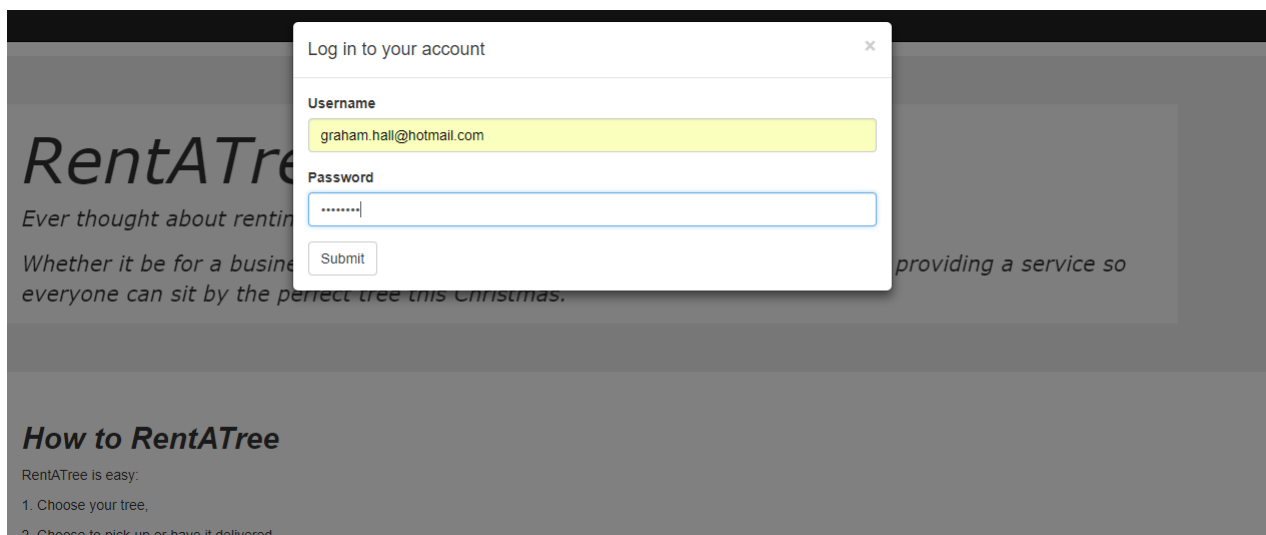
Clicking 'Submit' brings you back to the home page. From here, you can view orders previously added to the basket but not purchased, or browse the products page:

Rent-A-Tree								Home	Products	Basket	graham.hall@hotmail.com	Log Out

Products

Material:

Type:

Supplier:

Price range: £4 - £10

Height range: 60cm - 400cm

Search

Product Id	Name	Material	Height(cm)	Description	Supplier	Price per Day	Lease Start	Lease End	Quantity	
1	Pine	Natural	320	Large, high needle retention, acicular-shaped leaves, approx. 5 needles per bundle	TreesRUs	£8.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
2	Pine	Natural	150	Medium, high needle retention, acicular-shaped leaves, approx. 5 needles per bundle	TreeLovers	£6.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
3	Fir	Natural	360	Large, non-drop, classic symmetrical shape, dark green needles	TreeLovers	£5.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
4	Spruce	PE	140	Medium ,good quality, PE, budget tree, hinged branches, easy assemble, recyclable	TreeCollectors	£7.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
5	Cedar	PVC	260	Medium, classic, contemporary tree, dark emerald green, brighter tips, good quality, recyclable	TreesRUs	£9.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
6	Spruce	Natural	400	Large, sharp needles, delicious pine fragrance, need to be well-watered to minimise needle drop	TreeLovers	£10.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
7	Pine	Natural	80	Small, high needle retention, acicular-shaped leaves, approx. 5 needles per bundle	TreeLovers	£4.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
8	Spruce	Natural	200	Medium, sharp needles, delicious pine fragrance, need to be well-watered to minimise needle drop	TreeCollectors	£8.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
9	Cedar	Natural	126	Medium, cone shape, dark, shiny green, sharp needles	TreesRUs	£9.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
10	Fir	PVC	60	Small, wide, cone shaped, good quality, recyclable, real-feel	TreeLovers	£10.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase

Selecting attribute filters allows you to search through the list of products to quickly find the tree type, height, price etc you require. Clicking the Lease Start and Lease End form fields brings up a date picker, allowing a lease duration to be selected from the available dates. Enter the required quantity and press 'Purchase' to add to checkout.

Rent-A-Tree								Home	Products	Basket	graham.hall@hotmail.com	Log Out

Products

Material:
Natural

Type:
Pine

Supplier:

Price range: £4 - £7

Height range: 60cm - 400cm

Search

Product Id	Name	Material	Height(cm)	Description	Supplier	Price per Day	Lease Start	Lease End	Quantity	
2	Pine	Natural	150	Medium, high needle retention, acicular-shaped leaves, approx. 5 needles per bundle	TreeLovers	£6.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase
7	Pine	Natural	80	Small, high needle retention, acicular-shaped leaves, approx. 5 needles per bundle	TreeLovers	£4.0	dd/mm/yyyy	dd/mm/yyyy	0	Purchase

This brings us to the basket, where items can be removed and the deposit along with the total basket cost is displayed.

Rent-A-Tree						Home Products Ba	

Basket
In your basket is:

Product Id	Name	Material	Price Per Day	Lease Start	Lease End	Quantity	
3	Fir	Natural	£5	2017-12-05	2018-01-05	1	Remove
2	Pine	Natural	£6	2017-12-02	2018-01-02	5	Remove
7	Pine	Natural	£4	2017-12-15	2018-01-12	4	Remove
					Deposit:	£153.3	
					Basket total:	£1686.3	Checkout

The checkout page captures account and payment information to finalise and process the order. The basket summary is also displayed to remind the customer of their order details.

Rent-A-Tree		Home Products Basket graham.hall@hotmail.com	Log Out

Checkout

Account details

Name
Graham Hall

Address
20 Montague Road   BH5 2EP

Card Holder Name
Mr G Hall

CARD NUMBER
1234567890123456 🔒

EXPIRY DATE
12   18   CV CODE ···

Pay

Basket Summary

Product Id	Name	Quantity	Lease Duration
3	Fir	1	31.0
2	Pine	5	31.0
7	Pine	4	28.0
		Total price:	£1686.3

5

If the order is successful, the customer is redirected to a order confirmation page displaying the order summary and total price once again

| Rent-A-Tree | | | | | Home | Products | Basket | graham.hall@hotmail.com | Log Out |

Thank you!

Your order is confirmed. We've sent you a confirmation email at graham.hall@hotmail.com

Here's a summary of your order:

Order summary

Name	Description	Material	Lease Duration	Quantity
Fir	Large, non-drop, classic symmetrical shape, dark green needles	Natural	31	1
Pine	Medium, high needle retention, acicular-shaped leaves, approx. 5 needles per bundle	Natural	31	5
Pine	Small, high needle retention, acicular-shaped leaves, approx. 5 needles per bundle	Natural	28	4
			Order total:	£1686.3

Return Home

There is also the facility for admin tools such as updating hits/misses and updating stock levels. This can be accessed via http://localhost:8080/ProjectStarterCode/admin.jsp . Unfortunately the route to this page is not yet well integrated into the rest of the sitemap, so it can only be accessed via the URL. However, you can enter account emails such as stella.smith@gmail.com or harry.green@live.co.uk into increment hit or miss to see the relevant data updating.

KNOWN BUGS

- Log out is not functional, user can log into their account but there is not yet support for logging out and then logging into another account
- Remove item from Basket is not fully functional
- If the user enters incorrect login details, it redirects to a blank page displaying "Incorrect login" which is clunky and inelegant, as the user has to go back in the browser to return home to reattempt login
- Users can select an option for collection/delivery type/slot which updates the database, but it doesn't have any effect on the basket, order or total price.