

## COMP1661 Logbook Upload Template

### 1. Basic Information

1.1	Student name	Myles Findlay
1.2	Who did you work with? Note that for logbook exercises you are allowed to work with one other person as long as you give their name and login id and both contribute to the work.	<b>Name:</b> <b>Login id:</b>
1.3	Which Exercise is this? Tick as appropriate.	1 - Create a PhoneGap App utilizing the Notification API <input type="checkbox"/> 2 - Create a PhoneGap data entry screen RentalZ App <input checked="" type="checkbox"/> 3 - Create an SQLite database for RentalZ App <input type="checkbox"/> 4 - Create Android data entry screen for RentalZ App <input type="checkbox"/>
1.4	How well did you complete the exercise? Tick as appropriate.	<ul style="list-style-type: none"><li>I tried but couldn't complete it <input checked="" type="checkbox"/></li><li>I did it but I feel I should have done better <input type="checkbox"/></li><li>I did everything that was asked <input type="checkbox"/></li><li>I did more than was asked for <input type="checkbox"/></li></ul>
1.5	Briefly explain your answer to question 1.4 e.g. what you could have done better?	<ul style="list-style-type: none"><li>Implement validation</li><li>Implement better database connection</li><li>Allow users to delete content from individual fields</li></ul>

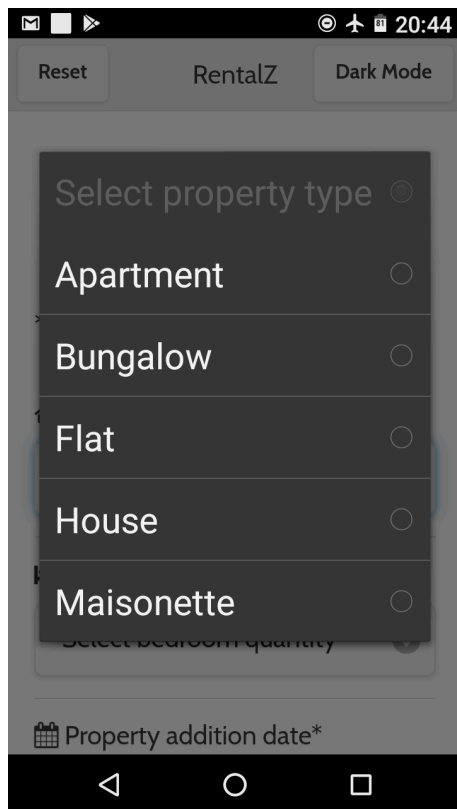
### 2. Exercise answer

#### 2.1 Screenshots demonstrating what you achieved

Paste screenshots in here. Add explanation of what each screenshot demonstrates

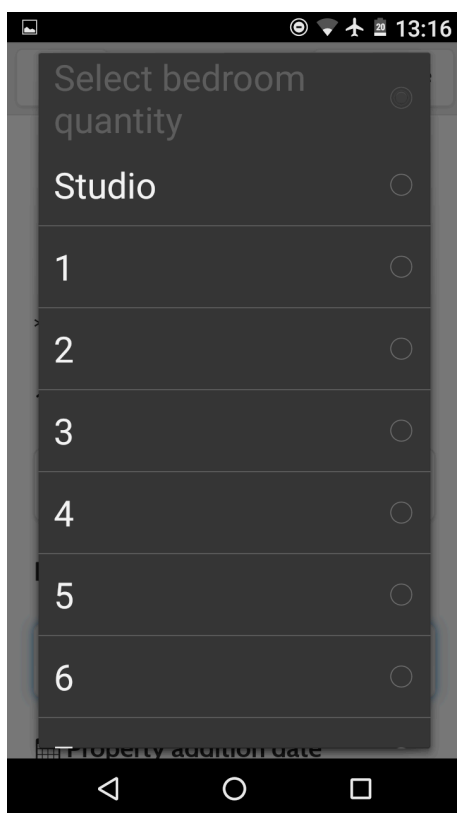
Figure 1: RentalZ top of form

This is the first screen the user will see when the app is launched. The user will be shown a greeting message along with a group of options that can be tweaked, allowing the user to add a property.

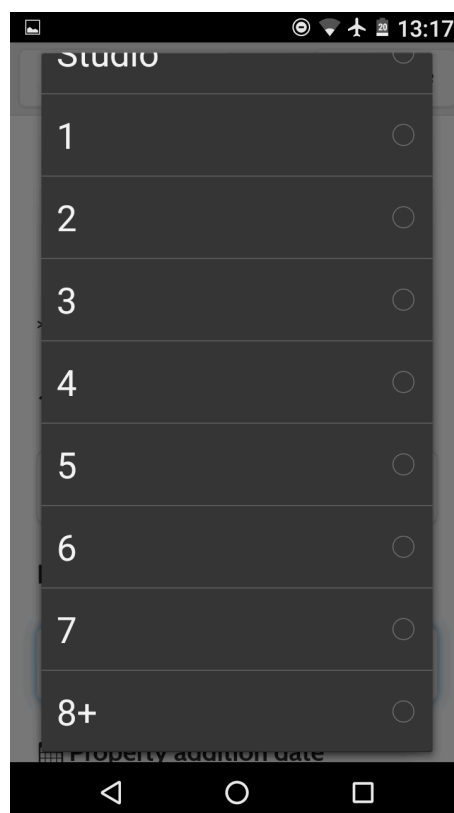


**Figure 2:** 'Property type' select list

When the user taps the select list for 'Property type', they will be presented with a list of different kinds of properties to choose from (one must be chosen).

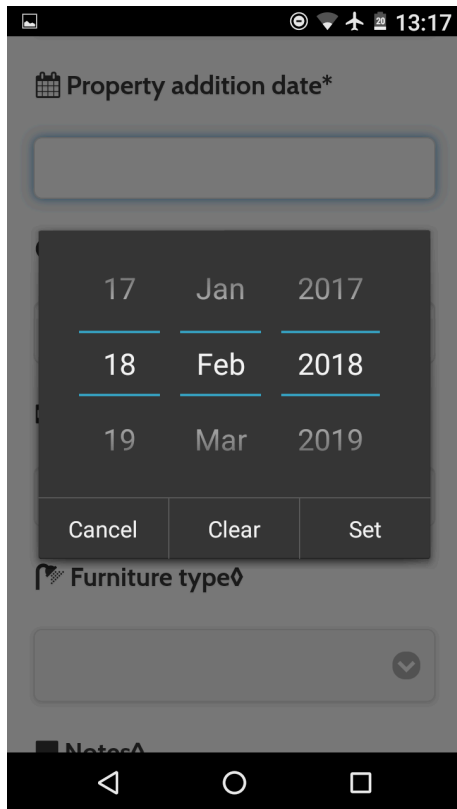


**Figure 3:** 'Bedrooms' select list



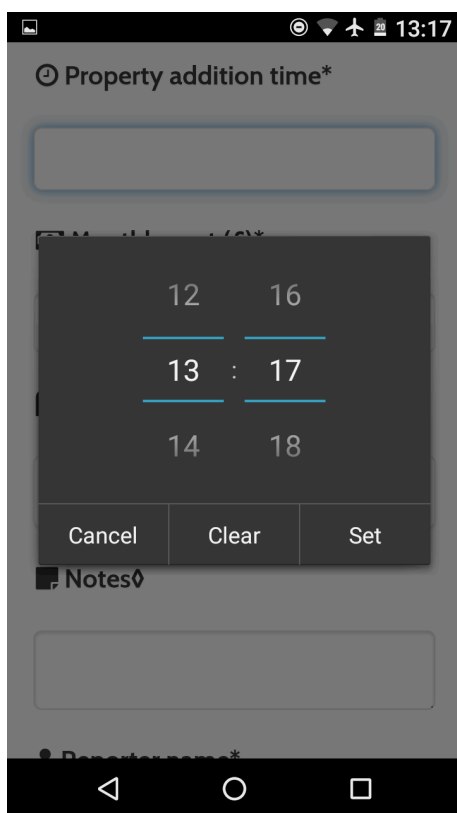
**Figure 4:** 'Bedrooms' select list (continued)

When the user taps the select list for 'Bedrooms', they will be presented with a list of numbers to choose from relating to the amount of bedrooms they want to specify for the property (one must be chosen).



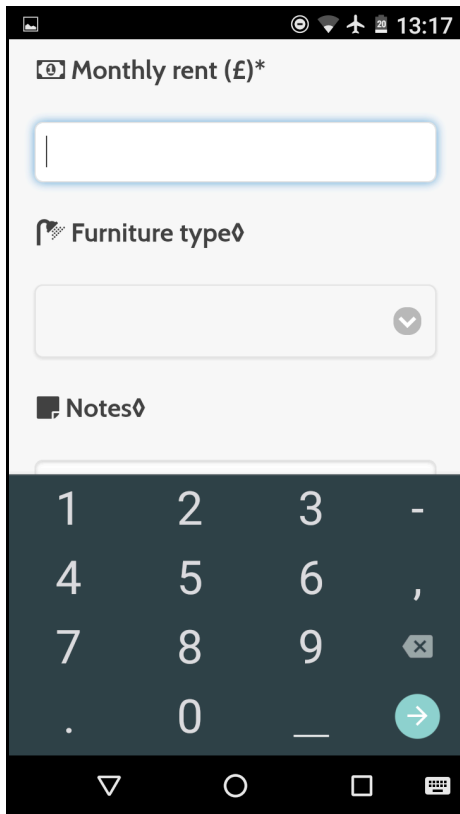
**Figure 5:** Date picker

When the user taps the input field for 'Property addition date', they will be presented with a DatePicker, which will allow them to choose a date for the property (a date must be chosen).



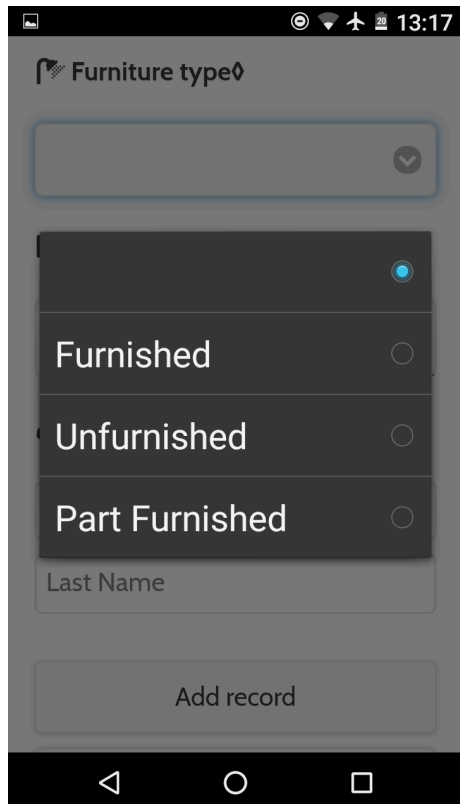
**Figure 6:** Time picker

When the user taps the input field for 'Property addition time', they will be presented with a TimePicker, which will allow them to choose a time for the property (a time must be chosen).



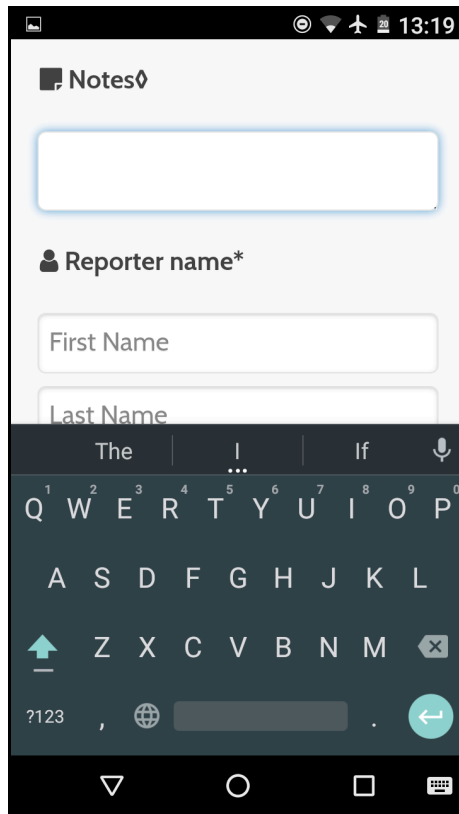
**Figure 7:** 'Monthly rent' input field selected with 'number' type keyboard open

When the user taps the input field for 'Monthly', they will be presented with a numeric keypad, which will allow them to choose a monetary value for the property (a numeric value must be specified). Thanks to `type="number"` in `<input type="number" id="input_monthlyrent">` a numeric keypad will be shown.



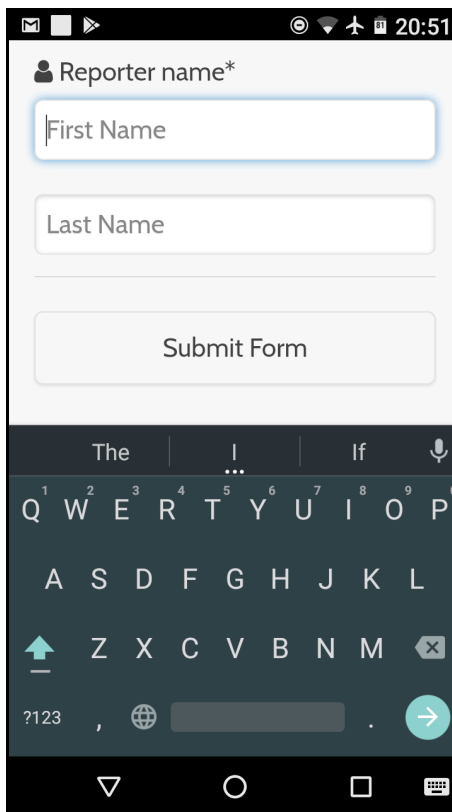
**Figure 8:** 'Furniture type' select list

When the user taps the select list for 'Furniture type', they will be presented with a list of different kinds of furnishing to choose from (this is optional).

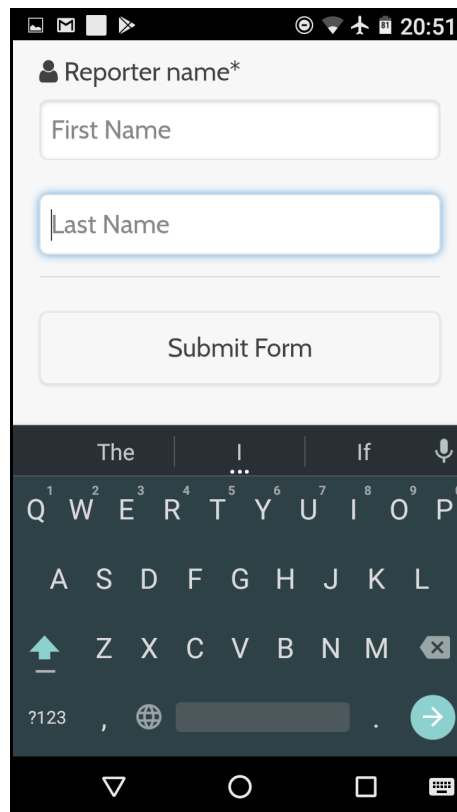


**Figure 9:** 'Notes' input field selected with 'text' type keyboard open

When the user taps the input field for 'Notes', they will be presented with a QWERTY keyboard, which will allow them add a note relating to the property (this is optional). Thanks to `type="text"` in `<input type="text" id="input_notes">` a QWERTY keyboard will be shown.

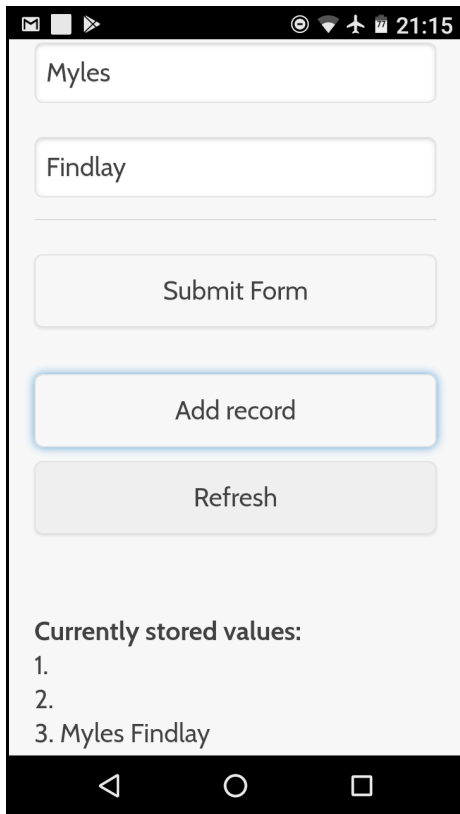


**Figure 10:** 'First Name' input field selected with 'text' type keyboard open



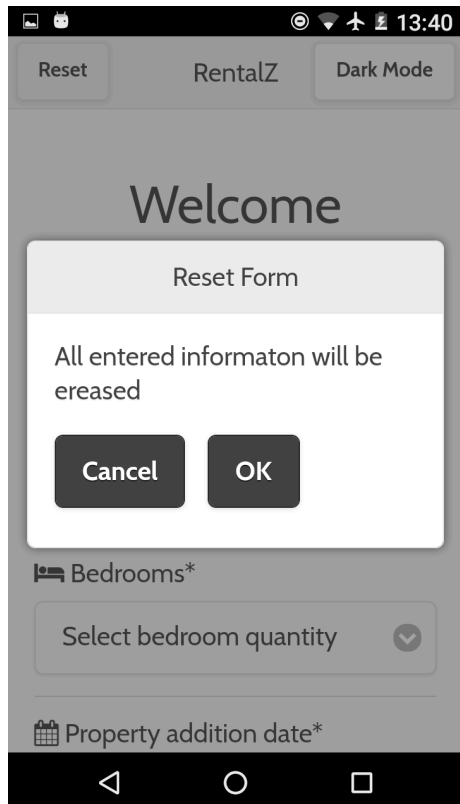
**Figure 11:** 'Last Name' input field selected with 'text' type keyboard open

When the user taps the input field for 'Notes', they will be presented with a QWERTY keyboard, which will allow them add a the reporter's name and surname (this is required). Thanks to `type="text"` in `<input type="text" id="input_surname">` and `<input type="text" id="reporterName">` a QWERTY keyboard will be shown.



**Figure 12:** Data from 'First Name' and 'Last Name' fields added to database table.

When the user taps the 'Add record' button the reporter's first name and last name will be added to the database in shown in the table below.



**Figure 13:** 'Reset Form' popup dialog

When the user taps the 'Reset' button in the top bar, a popup dialog will ask them if they want delete all the information they had entered. If they tap the 'OK' button, all entered information will be removed and all select lists will be reset to their default values.

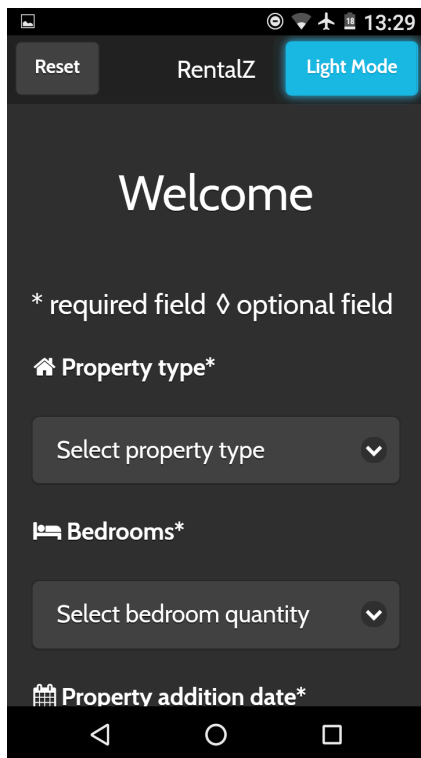


Figure 14: RentalZ App (dark mode - page 1 of 4)

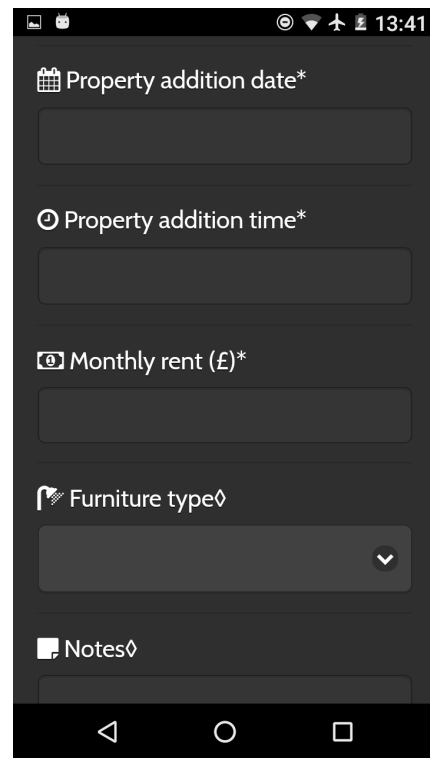


Figure 15: RentalZ App (dark mode - page 2 of 4)

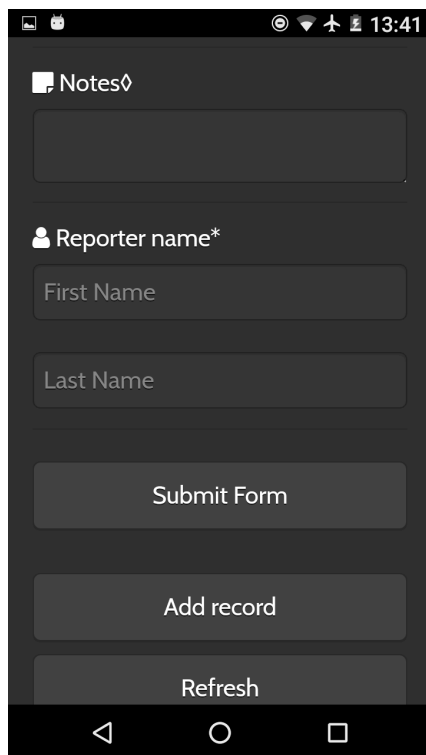


Figure 16: RentalZ App (dark mode - page 3 of 4)

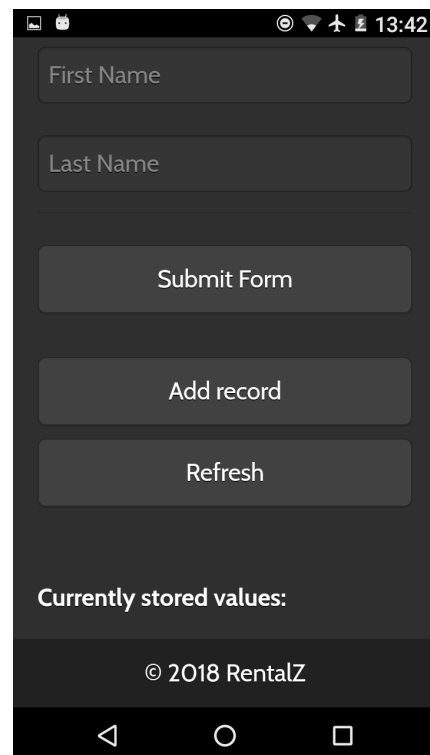


Figure 17: RentalZ App (dark mode - page 4 of 4)

Reset RentalZ Dark Mode

# Welcome

\* required field ◇ optional field

**Property type\***

Select property type ▼

**Bedrooms\***

Select bedroom quantity ▼

**Property addition date\***

Figure 18: RentalZ App (light mode - page 1 of 4)

**Property addition time\***

**Monthly rent (£)\***

**Furniture type◇**

**Notes◇**

Figure 19: RentalZ App (light mode - page 2 of 4)

**Notes◇**

**Reporter name\***

First Name

Last Name

Submit Form

Add record

Refresh

Figure 20: RentalZ App (light mode - page 3 of 4)

First Name

Last Name

Submit Form

Add record

Refresh

Currently stored values:

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Figure 21: RentalZ App (light mode - page 4 of 4)



## 2.2 Code that you wrote

File name: index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>RentalZ</title>
    <meta name="viewport" content="width=default-width; user-
scalable=no" />
    <meta http-equiv="Content-type" content="text/html; charset=utf-
8">

    <script type="text/javascript" charset="utf-8"
src="cordova.js"></script>

    <link rel="stylesheet"
href="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.css"
/>
    <script src="http://code.jquery.com/jquery-
1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.2/jquery.mobile-
1.4.2.min.js"></script>
    <script
src="https://ajax.aspnetcdn.com/ajax/jquery.validate/1.15.1/jquery.valid
ate.js"></script>
    <script type="text/javascript" src="app.js"></script>

    <link rel="stylesheet" href="styling.css">
    <script type="text/javascript" src="programming.js"></script>

    <script type="text/javascript">
      app.initialize();
    </script>

    <!--Font Awesome Icons support-->
    <link href="https://maxcdn.bootstrapcdn.com/font-
awesome/4.7.0/css/font-awesome.min.css" rel="stylesheet">
  </head>

  <body>
    <div data-role="page" data-theme="a" id="pageform">
      <div data-role="header">
        <h1>RentalZ</h1>
        <!-- When this button is clicked, show the
'resetformPopupDialog' PopupDialog -->
        <a href="#resetformPopupDialog" data-rel="popup" data-
position-to="window" data-transition="fade" class="ui-btn-left ui-
corner-all ui-shadow ui-btn-inline">Reset</a>

        <!-- When this button is clicked, toggle between the
light and dark themes as necessary -->
        <a href="index.html" id="btn-theme" class="ui-btn-right">
```

```

onclick="toggleTheme()">Dark Mode</a>
</div>

<div data-role="content">
  <h1>Welcome</h1>

  <!--field types section-->
  <div class="ui-grid-a">
    <div class="ui-block-a">
      <h3>&#42; required field</h3>
    </div>
    <div class="ui-block-b">
      <h3>&loz; optional field</h3>
    </div>
  </div>

  <form action="index.html" method="get">
    <!-- 'Property type' section-->
    <div class="ui-field-contain">
      <label for="select_propertytype"><i class="fa
fa-home"></i> Property type&#42; </label>
      <select name="select-native-1"
id="select_propertytype">
        <option disabled selected value="0">Select
property type</option>
        <option value="1">Apartment</option>
        <option value="2">Bungalow</option>
        <option value="3">Flat</option>
        <option value="4">House</option>
        <option value="5">Maisonette</option>
      </select>
    </div>

    <!-- 'Bedrooms' section-->
    <div class="ui-field-contain">
      <label for="select_bedrooms"><i class="fa fa-
bed"></i> Bedrooms&#42; </label>
      <select name="select-native-2"
id="select_bedrooms">
        <option disabled selected value="0">Select
bedroom quantity</option>
        <option value="1">Studio</option>
        <option value="2">1</option>
        <option value="3">2</option>
        <option value="4">3</option>
        <option value="5">4</option>
        <option value="6">5</option>
        <option value="7">6</option>
        <option value="8">7</option>
        <option value="9">8&#43;</option>
      </select>
    </div>

    <!-- 'Property addition date' section-->

```

```

        <div class="ui-field-contain">
            <label for="input_propertyadditiondate"><i
class="fa fa-calendar"></i> Property addition date&#42; </label>
            <input type="date" data-role="datebox"
id="input_propertyadditiondate" name="propertyadditiondate">
        </div>

        <!-- 'Property addition time' section-->
        <div class="ui-field-contain">
            <label for="input_propertyadditiontime"><i
class="fa fa-clock-o"></i> Property addition time&#42; </label>
            <input type="time" data-role="time"
id="input_propertyadditiontime" name="propertyadditiontime">
        </div>

        <!-- 'Monthly rent' section-->
        <div class="ui-field-contain">
            <label for="input_monthlyrent"><i class="fa fa-
money"></i> Monthly rent (£)&#42; </label>
            <input type="number" id="input_monthlyrent">
        </div>

        <!-- 'Furniture type' section-->
        <div class="ui-field-contain">
            <label for="select_furnituretype"><i class="fa
fa-shower"></i> Furniture type&#9674; </label>
            <select name="select-native-3"
id="select_furnituretype">
                <option value="0"></option>
                <option value="1">Furnished</option>
                <option value="2">Unfurnished</option>
                <option value="3">Part Furnished</option>
            </select>
        </div>

        <!-- 'Notes' section-->
        <div class="ui-field-contain">
            <label for="textarea_notes"><i class="fa fa-
sticky-note"></i> Notes&#9674; </label>
            <textarea rows="2" name="textarea"
id="textarea_notes"></textarea>
        </div>

        <!-- 'Reporter name' section-->
        <div class="ui-field-contain">
            <label for="reporterName"><i class="fa fa-
user"></i> Reporter name&#42; </label>
            <input id="reporterName" type="text"
placeholder="First Name" minlength="2">
            <br>
            <input id="input_Surname" type="text"
placeholder="Last Name" minlength="2">
        </div>

```

```

        <!-- 'Submit' button-->
        <div data-role="fieldcontain">
            <input type="submit" name="" value="Submit
Form"/>
        </div>
    </form>
    <input type="button" value="Add record"
onClick="AddValueToDB()">
    <input type="button" value="Refresh"
onClick="ListDBValues()"> <br>
    <br/>
    <!--</form>-->

    <span style="font-weight:bold;">Currently stored
values:</span>
    <span id="lbUsers"></span>

    <!-- 'missing information' PopupDialog-->
    <div data-role="popup" id="missinginfoPopupDialog" data-
overlay-theme="e" data-dismissible="false">
        <div data-role="header">
            <h1>Required Information Missing</h1>
        </div>

        <div data-role="main" class="ui-content">
            <p>Some required information is missing:</p>
            <a href="#" class="ui-btn ui-corner-all ui-
shadow ui-btn-inline ui-btn-b" data-rel="back" style="color:
white;">OK</a>
        </div>
    </div>

    <!-- 'save information' PopupDialog-->
    <div data-role="popup" id="saveinfoPopupDialog" data-
overlay-theme="e" data-dismissible="false">
        <div data-role="header">
            <h1>Required Information Missing</h1>
        </div>

        <div data-role="main" class="ui-content">
            <p>You entered the following information:</p>
            <a href="#" class="ui-btn ui-corner-all ui-
shadow ui-btn-inline ui-btn-b" data-rel="back">Cancel</a>
            <a href="#" onclick="addtoDB()" class="ui-btn
ui-corner-all ui-shadow ui-btn-inline ui-btn-b" data-rel="back">OK</a>
        </div>
    </div>

    <!-- 'Reset form' PopupDialog-->
    <div data-role="popup" id="resetformPopupDialog" data-
overlay-theme="b" data-theme="a" data-dismissible="false">
        <div data-role="header" data-theme="a">
            <h1>Reset Form</h1>
        </div>

```

```

        <div data-role="main" class="ui-content">
            <p>All entered informaton will be ereased</p>
            <a href="#" class="ui-btn ui-corner-all ui-
shadow ui-btn-inline ui-btn-b" data-rel="back" style="color:
white;">Cancel</a>
            <a href="#" onclick="resetForm()" class="ui-btn
ui-corner-all ui-shadow ui-btn-inline ui-btn-b" data-rel="back"
style="color: white;">OK</a>
        </div>
    </div>
</div>

    <div data-role="footer">
        <h1>&copy; 2018 RentalZ</h1>
    </div>
</div>

<script type="text/javascript">
    $('form').submit(function() {
        $( "#missinginfoPopupDialog" ).popup( "open" );
    });
</script>

<!--<script type="text/javascript">-->
    <!--function validateForm() {-->

        <!--alert("Please Fill All Required
Fields");-->
        <!--return false;-->

    <!--}-->
<!--</script>-->
</body>
</html>

```

File name: programming.js

```

function toggleTheme() {
    var themes = {
        "a": "Light Mode",
        "b": "Dark Mode"
    },
    oldTheme = $(":mobile-page").page("option", "overlayTheme"),
    newTheme = oldTheme == "a" ? "b" : "a";

    // remove old class for 'ui-page' content, then apply the new class
    to 'ui-page' content
    $("div[data-role='page']").each(function (index) {

```

```

        $(this).removeClass("ui-page-theme-" + oldTheme).addClass("ui-
page-theme-" + newTheme);
    });
    // remove old class for 'ui-bar', then apply the new class to 'ui-
bar'
    $(".ui-bar-" + oldTheme).each(function (index) {
        $(this).removeClass("ui-bar-" + oldTheme).addClass("ui-bar-" +
newTheme);
    });
    // remove old class for 'ui-body', then apply the new class to 'ui-
body'
    $(".ui-body-" + oldTheme).each(function (index) {
        $(this).removeClass("ui-body-" + oldTheme).addClass("ui-body-" +
newTheme);
    });

    // remove old theme then apply the new theme to page content
    $(":mobile-page").page("option", "overlayTheme", newTheme);
    $(":mobile-page").page("option", "theme", newTheme);
    $(":mobile-page").page("option", "contentTheme", newTheme);

    // change 'btn-theme' button text as necessary
    $("#btn-theme").text(themes[oldTheme]);
}

function resetForm() {
    // perform all of the following if the 'OK' button of the 'Reset
Form' PopupDialog is clicked

    // set the selected option of the 'Property type' select list to
'Select property type' (disabled but default)
    var myselectA = $("#select#select_propertytype");
    myselectA[0].selectedIndex = 0;
    myselectA.selectmenu("refresh");

    // set the selected option of the 'Bedrooms' select list to 'Select
bedroom quantity' (disabled but default)
    var myselectB = $("#select#select_bedrooms");
    myselectB[0].selectedIndex = 0;
    myselectB.selectmenu("refresh");

    // clear all text from 'Property addition date' input field
    $('#input_propertyadditiondate').val('');

    // clear all text from 'Property addition time' input field
    $('#input_propertyadditiontime').val('');
}

```

```

// clear all text from 'Monthly rent' input field
$('#input_monthlyrent').val('');

// set the selected option of the 'Furniture type' select list to
Furnished (default)
var myselectC = $("select#select_furnituretype");
myselectC[0].selectedIndex = 0;
myselectC.selectmenu("refresh");

// clear all text from 'Notes' textarea field
$('#textarea_notes').val('');

// clear all text from 'Report name' input field
$('#input_reportername').val('');
}

function checkFields() {
    // perform all of the following when the 'Check fields' button
    clicked
    $('#form1').validate({
        rules: {
            input_Forename: {
                required: true
            },
            input_Surname: {
                required: true
            }
        },
        messages: {
            input_Forename: {
                required: "Please enter your first name."
            },
            input_Surname: {
                required: "Please enter your last name."
            }
        },
        errorPlacement: function (error, element) {
            error.appendTo(element.parent().prev());
        },
        submitHandler: function (form) {
            $(':mobile-pagecontainer').pagecontainer('change',
            '#success', {
                reload: false
            });
            return false;
        }
    })
}

```

```
    }) ;  
}
```