OPSC7311 PORTFOLIO OF EVIDENCE

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Assignment 2 Question 1

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# Introduction

This application is being developed for the “Playhouse Company” situated in the Durban CBD. The “Playhouse Company” hosts a number of events at their theatre. These shows consist of plays, concerts and other live events. Currently, management finds it difficult to keep track of all the events that are being run. They need an application that can assist in their management processes.

# Program Specifications

## Application Description

The company would like an application that can properly record details about each event. This includes: name of the event, contact details of the directors, the number of performers, a description of the event, the amount paid by organizers. Management should also be allowed to add and update records with ease. Lastly, a report of all the events should be produced weekly so that the organizers can prepare and plan for each event accordingly. The application should also contain an email function that can link up with their email accounts.

## Programming Tools Used

* Reads and write to a text file
* Sends an email
* Displays a list view report
* Uses assets folder to read from text file
* Using the following widgets: Edit text, text view, scroll view , list view and linear layout

## System Requirements

**Splash Screen**

*This is a start screen which displays a welcome message, a loading bar and an image.*

**Login**

*The user must login using the following credentials Username: Duran, Password: Password1. If the correct credentials are entered the user will be allowed access to the system.*

**Menu Screen**

*This will present the user with a list of options that they can select from. This includes: Add Event, Show Event details, Help and Send email message.*

**Add Event**

*This will allow the user to enter in details about the event. This will include: Director Name, Event description, amount paid, event name and the name of the event. Click on the submit button will send all records to the text file.*

**Show Event Details**

*This will show all events in a list. This will contain all details surrounding the event and will display all information entered about that event. This information will be retrieved from the text file.*

**Help**

*This will show detailed information to the user if he/she needs assistance and guidance on how to us the application. This information will be retrieved from the text file.*

**Send Email**

*This allows the user to type in an email message. Tapping the submit button will redirect the user to their email application stored on their device such as Gmail.*



# Flow Chart











# UML Diagrams

## Class Diagrams





## Use Case Diagram



# 

# Help File

(Note: This file is displayed to the user in the Help Activity)

This application is aimed at keeping track of all events done by the Play House.  
Using this application is very simple.

**Add Event**  
Selecting the Add event option will allow you to enter in all details about that event.  
Please make sure that all fields are entered. No field should be blank.  
Secondly, a contact number must contain 10 digits.  
An error message will be display if something is not entered in correctly.

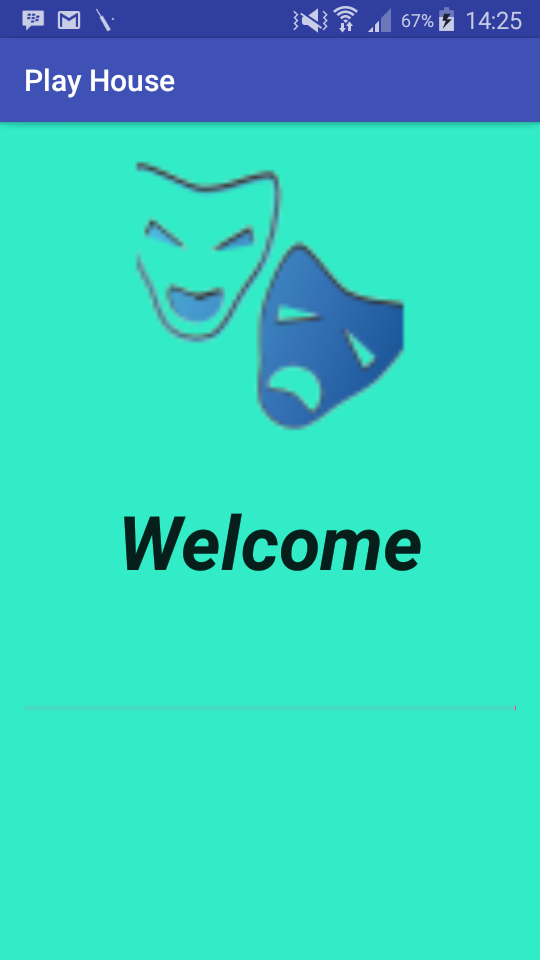
**Show Event**  
Selecting the show event will display all events up to date.

**Send Email**  
Selecting the send email will allow you to write out the email message.  
Tapping the send button, will re-direct you to an email application (Gmail) of your choosing.  
  
Contact the developer: Duran Moodley on 071 355 8911 for additional help

# Screen shots/ Test Data

**Splash Screen**

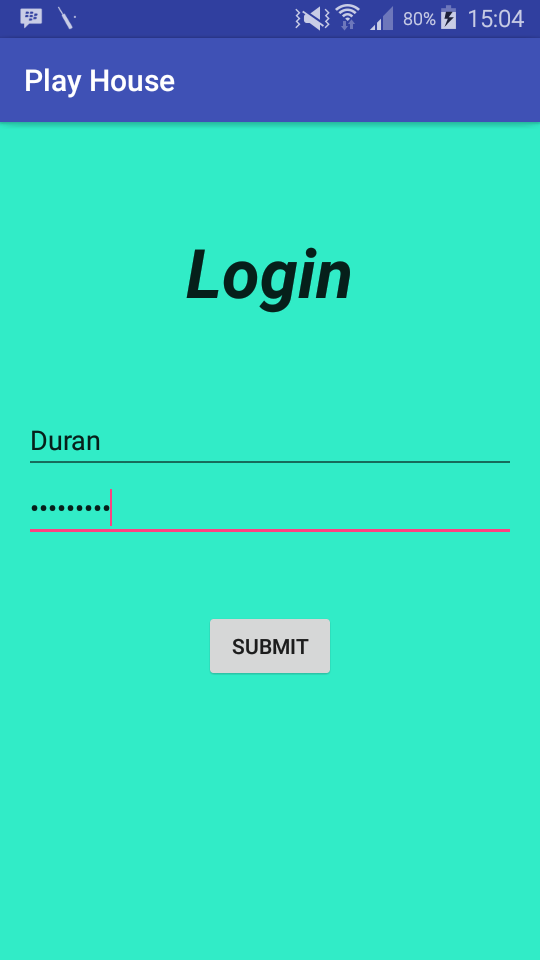
This screens welcomes the user to the application.



**Login Screen**

The user needs to enter the correct credentials

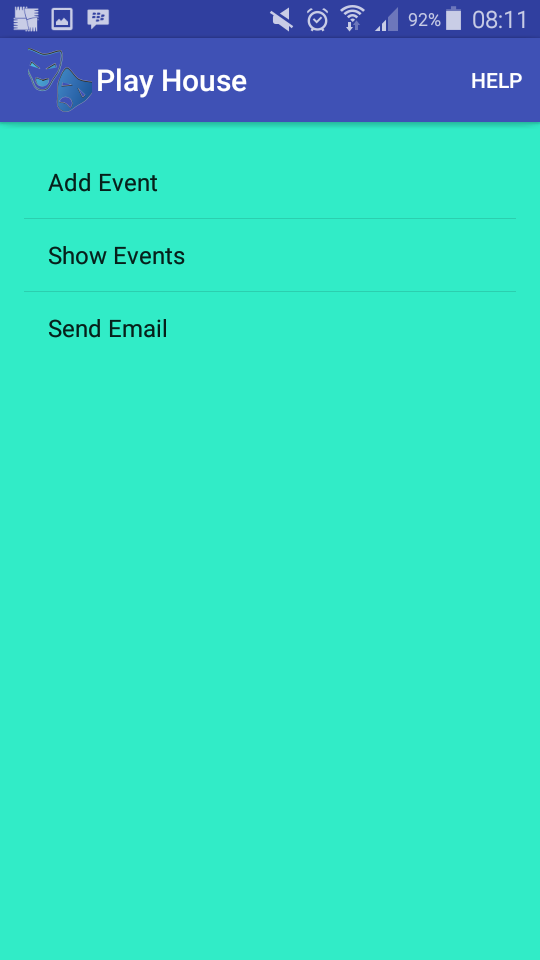
to be allowed access into the application



**Menu Screen**

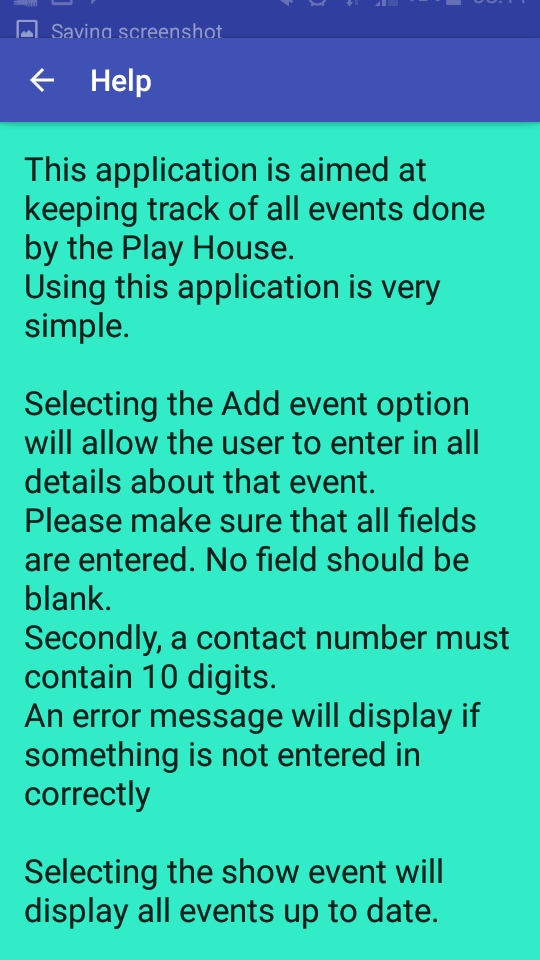
The user can select any option according to

their desired action



**Help**

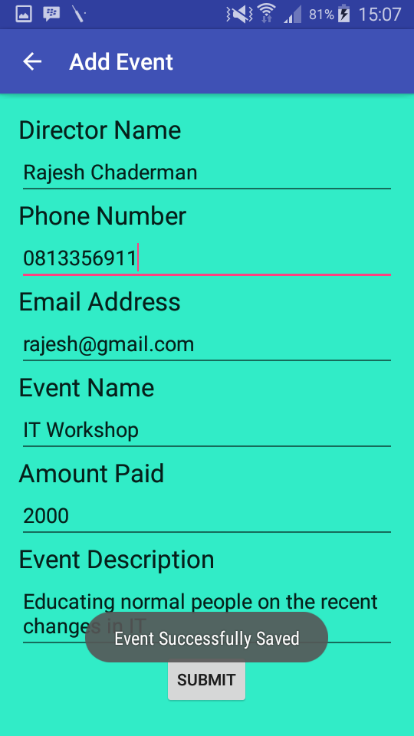
Displays guidance to the user on how to use the application.



**Add Event**

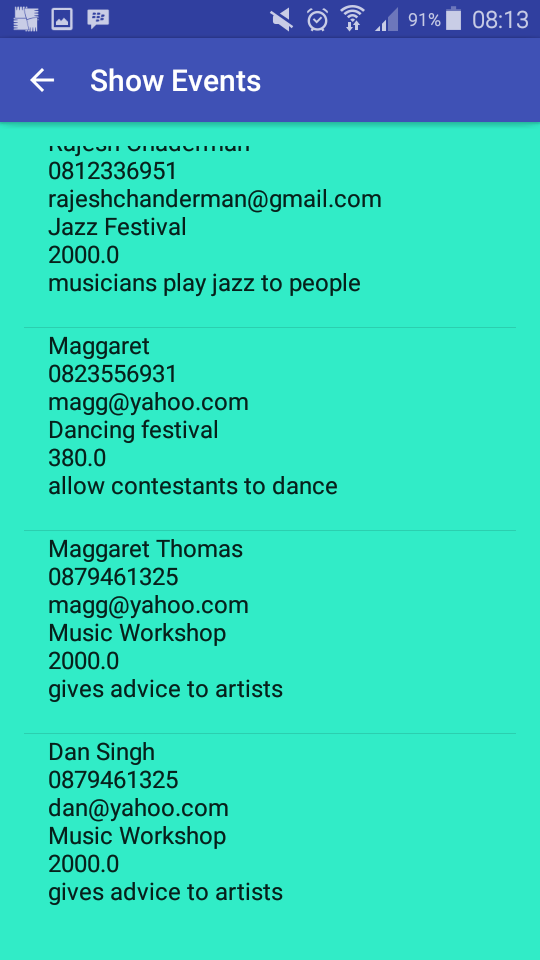
The user can add a record/event by entering in all fields correctly and

Tapping the submit button



**Show Events**

Displays all event details to the user

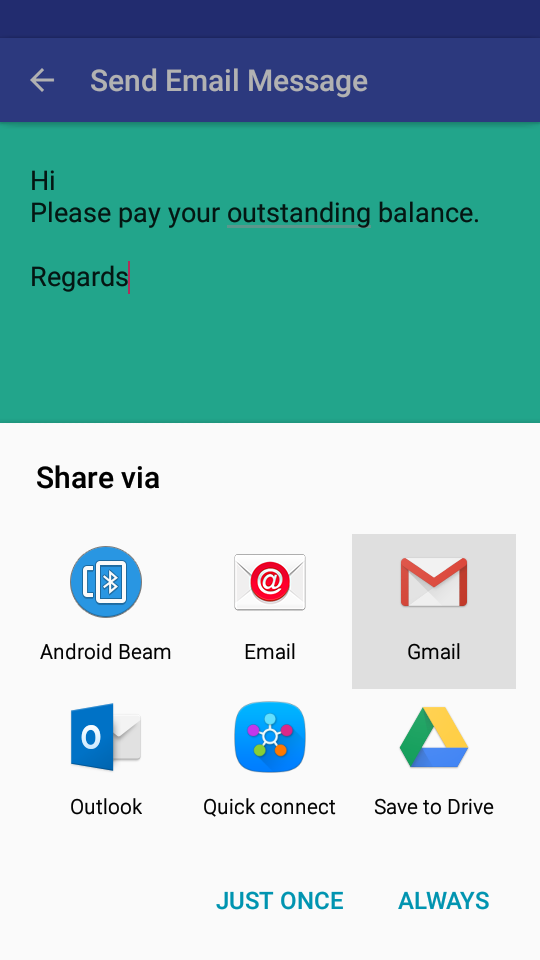
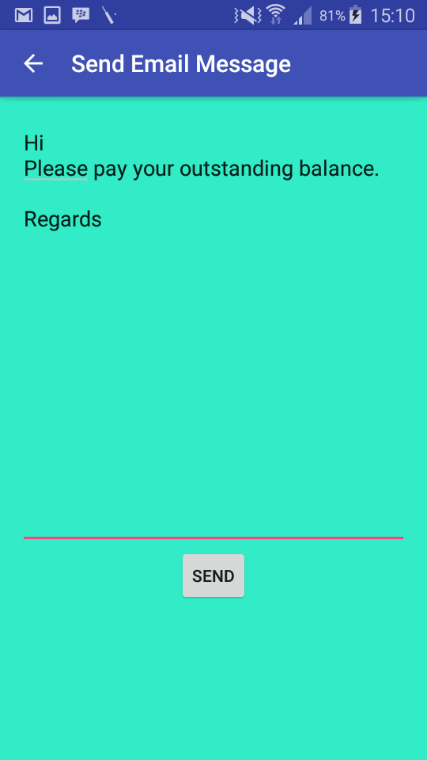


**Send Email**

The user can write an email message

Tapping the send button will

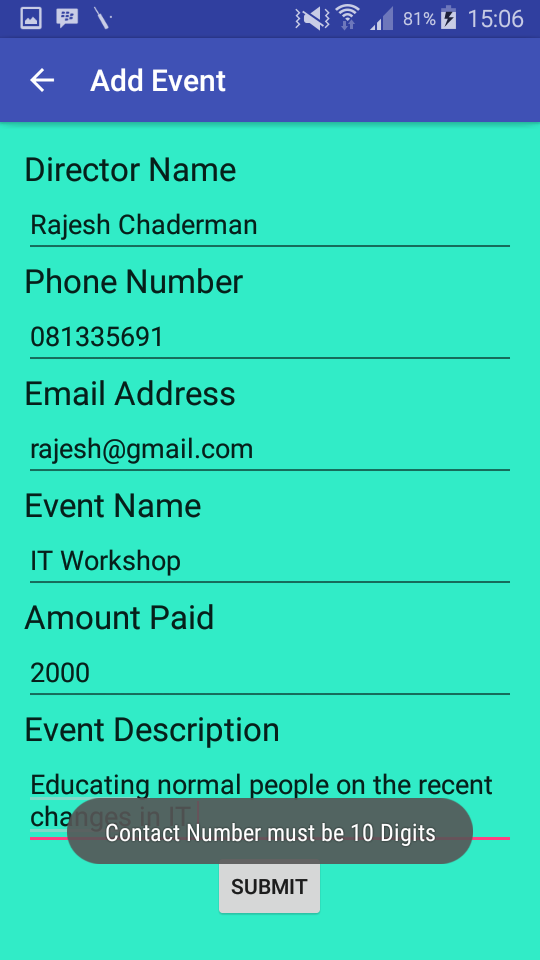
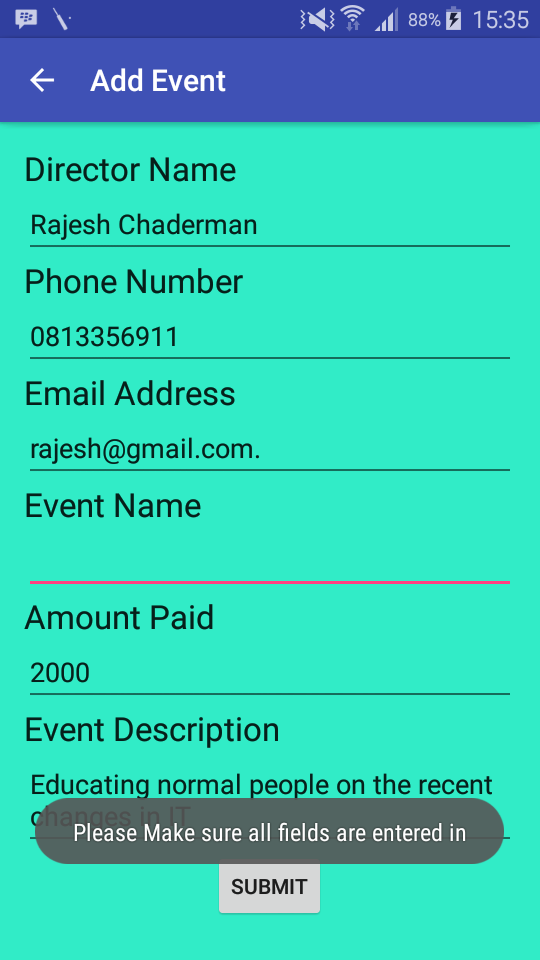
Redirect the user to his/her email account



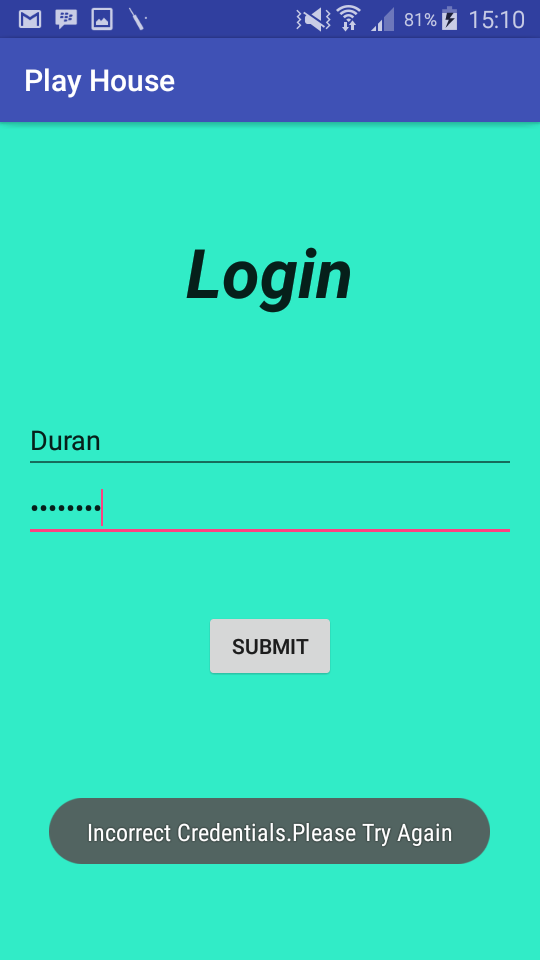
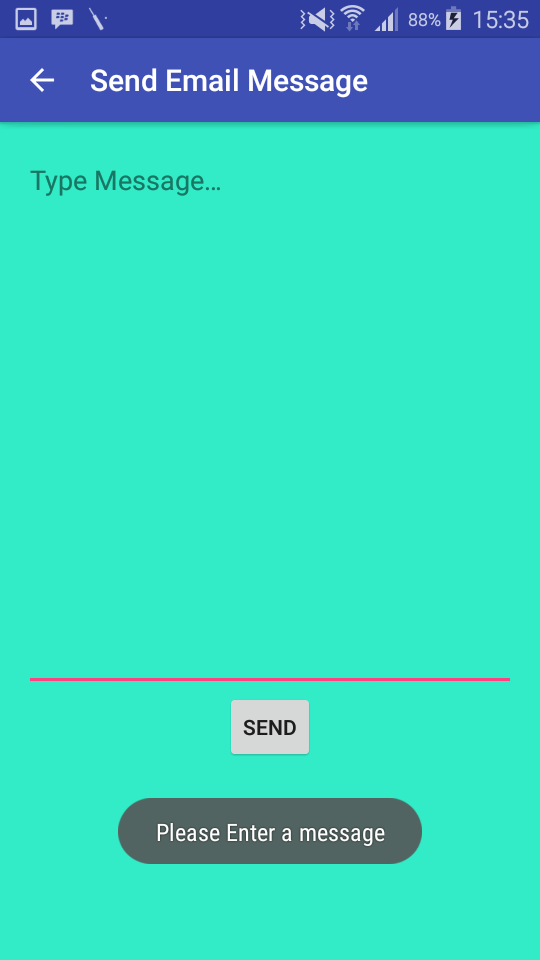
## Validation

If the user enters in incorrect data into a field, the application will display an error message to help the user fix the problem.

**Add Event Error Message Add Event Error Message**



**Send Email Error Message Login Error Message**



# Lecturer Feedback & Corrections Made

|  |  |
| --- | --- |
| Lecturer Feedback | Correction Made |
| Remove com from your namespace | Com has been changed to myassignment |
| Use prefixes for your view variables | View variables renamed with prefixes |
| Password Hardcoded. | Username and password saved to a shared preference |
| Edt message email – input type should be email | Input type changed to email |
| App is index able by google search | Not fixed |
| Painting image over theme | Not fixed |
| Change readDate to readData | readDate changed to readData |
| Difficult to see when you field you are entering in the edit text | Added labels above each edit text to indicate what must be added in that field |

# Enhancements

* A splash screen was added to the application. This activity contains a progress bar (Horizontal), an image and a welcome message to the user.
* I have now made use of the colors.xml file. I inserted a colour scheme and called this colour scheme in all my activities.
* Added additional if and assert statements to check for null values
* Corrected spelling errors

# Conclusion

Developing this application gave me a better understanding of how to save data to a text file and retrieve that information. In addition, in the near future I would like to incorporate Material design to improve the look and feel of this application.