

Application for Mobile Development

Course Work 1

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Report

Section 1- Mad Discovery Application Checklist

Feature	Implementation
a)	<ul style="list-style-type: none">• This feature was fully implemented with a proper design.
b)	<ul style="list-style-type: none">• Validation in the form was present, however it lacked validation against duplication.
c)	<ul style="list-style-type: none">• Feature was fully developed.
d)	<ul style="list-style-type: none">• Search was developed to search by an event name, location etc.
e)	<ul style="list-style-type: none">• A report could have been created.
f)	<ul style="list-style-type: none">• Features a) and b) was developed in Native Android Successfully.
f)	<ul style="list-style-type: none">• No additional features implemented was time was contributing factor.

Section 2- List of Bugs

The only bug noted so far was detected in my search feature. The code and its structure are accurate, also the database is populated effectively. But at times, the search function just fails to work.

This can be classed as a bug/weakness. The creation of an event, could have been done by selecting a date in the past. This should not have been the case since the event that is being created, should be carded for a present or future date.

Thirdly another issue or bug rather that may sound strange was that of my file structure. The development of the application should have had a neat file structure, similar to that of a web application. However, when this method was carried about, the mobile application failed to function correctly, especially when it came to page navigation.

Another issue to be drawn to the attention of the bugs encountered in the application. While implementing my code to enter a Report Input Screen (activity e), I was able to achieve that functionality but while remove pieces of the unnecessary code, when I attempted to test once more, it failed to run. Efforts were made in trying to recover this functionality, but those efforts were in vain. This is why this operation or function can be classed as a bug in the application.

A weakness on my path involving the application was the inability to create special features. This was due to time constraints. Most applications are common, at times doing similar functions, but good applications can be greatly distinguished by the special features they offer.

Section 3- Strengths to the Application

When developing this application, the function to view event details was more defined. Users can now find the name of the event, and by tapping or clicking the link, they are able to see full details of the selected event. Another strength based on usability and design once more, was the initial home page or portal of the mobile application. The design was created with simplicity in mind to ensure that the user would be puzzled or get lost using this application. A number of applications at times confuse users which would then make the user uninstall such an app. With this design and usability combined, the user can easily manoeuvre through the application and create their events as well as search for event, view details etc.

Another strength would be that of coding. Though some instances previously mentioned proved otherwise, the coding was down accurately and to the best of my knowledge capability. Additional the code was laid out in a neat fashion, so it was easy to determine each function of that particular page. For example, my SQL queries were precise and were able to create, retrieve and store appropriate data.

Section 4- Screenshots (Samsung Galaxy GT-I9192)

In this section the actual mobile application underwent testing and screenshot were rendered using a Samsung Galaxy S4 Mini smartphone. The screenshots are as follows:



Figure1.0

Caption: This is the home page or home screen of the MadDiscovery Mobile Application. In this screenshot you clearly notice the alert on screen, indicating the start of the application.



Figure1.1

Caption: This screenshot above is the main portal of the application. Notice that all operations are in button form to easily highlight their respective functionality.

Mad Discovery Application Registration Form

All fields with * must be Filled out with Data.

Status Message

*Event Name:

Event Location:

*Even Date:

Event Time:

*Event Organizers:

Submit Main Menu

Figure1.2

Caption: Figure 1.2 is the “Create Event” function.

Registration Form

All fields with * must be Filled out with Data.

Status Message

*Event Name:

Please enter an Event Name e.g Tiana's Bridal Shower

Event Location:

*Even Date:

Please enter a Date for Event e.g. 03/08/16

Event Time:

*Event Organizers:

Please enter the Organizers for the Event e.g Tracy Gonzalez

Submit Main Menu

Figure1.2.1

Caption: This screenshot denotes the validation on the “Create Event Activity”. The validation was done in compliance with the requirement B. in the assignment.

**Mad Discovery
Application
Registration Form**

All fields with * must be Filled out with Data.

Status Message

*Event Name:
Chris' Birthday Party

Event Location:
Gulf View

*Even Date:
05/30/2016

Event Time:
4:30:00 PM

*Event Organizers:
Joshua Thomas

Submit Main Menu

Figure1.2.2

Caption: This shit represents the various fields of the “Create Event Activity” being fill out with accurate data. When the user is completed, he/she may press/click submit.

**Mad Discovery
Application
Registration Form**

Confirm

CONFIRM EVENT

EventName: Chris'
Birthday Party

EventLocation: Gulf View

EventDate: 2016-05-30

EventTime: 16:30

EventOrganizers: Joshua
Thomas

Cancel OK

Joshua Thomas

Submit Main Menu

Figure1.2.3

Caption: This is the confirmation page of the “Create Event Activity”. If the user is unsure about the data entered, they can press/click cancel, if not, press/click ok.

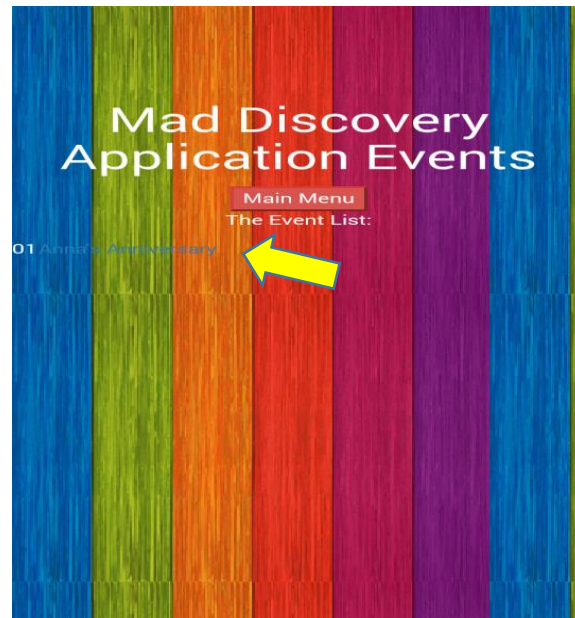


Figure1.3.0

Caption: This is another activity called “View Details”. On this screen, the user would see the name of events as well as an ID attached to such a name. The yellow arrow will highlight this for you.

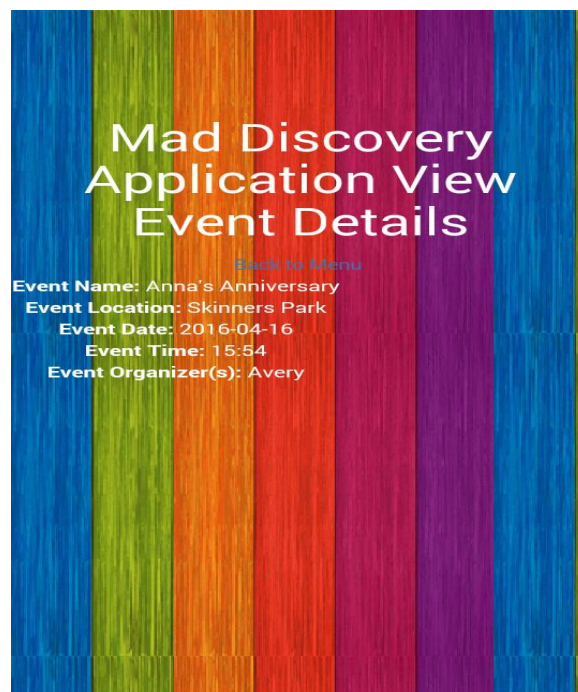


Figure1.3.1

Caption: This screen refers from the screen mentioned above. When the name of the event is clicked or pressed, more details pop up about that event.

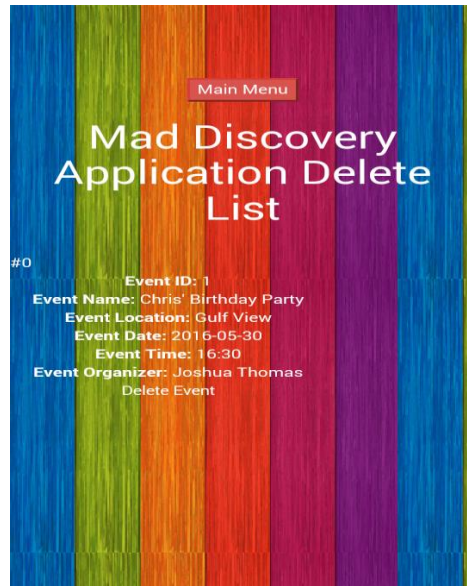


Figure1.4.0

Caption: This figure here indicates the “Delete Event Activity”. It consists of two (2) phases which will first show all created events in a list and then you can select one to the delete via the “Delete Event” prompt.

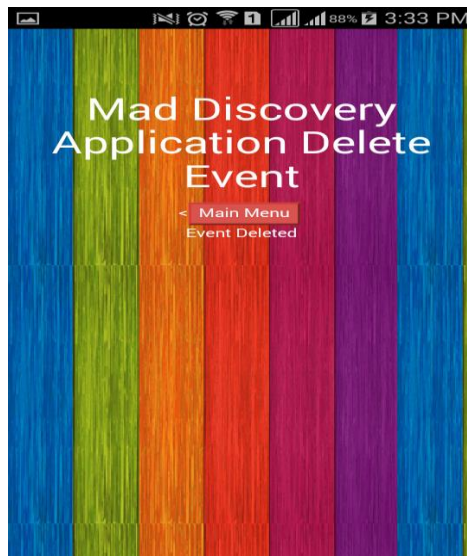


Figure1.4.1

Caption: this screen shot shows the message that indicates that the event was deleted successfully.

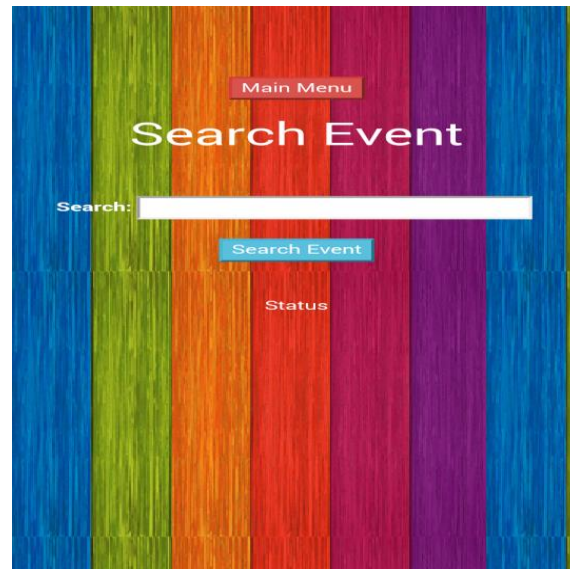


Figure1.5.0

Caption: This is the search feature of the Mad Discovery Application. The search was customized to search by the name, date, location and organizer of an event.

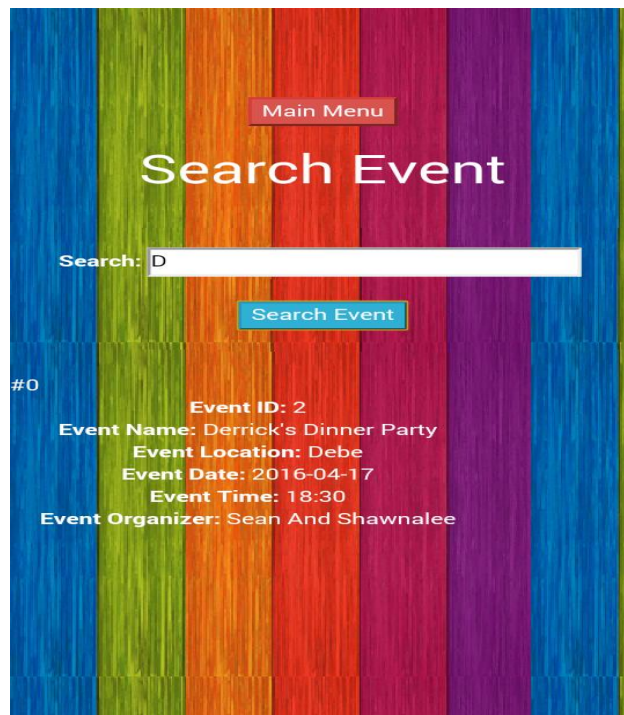


Figure1.5.1

Caption: This is an example of data found by the search. Notice that the user did not spell a full name or date but data was able to be retrieved.

NOTE: The report feature could not be rectified, hence no screenshots will be available.

Section 5- Evaluation of Application

The Mad Discovery Application that was built using PhoneGap was very interesting. There was its ups and downs. As an individual using this software for the first time didn't quite give me the advantage that other would have had over me. But when it came to human computer interaction, I was able to design the application as simple as possible. The use of transitions back and forth from activity would definitely have aided the user to complete their tasks. The application had appropriate status messages to inform the user of the manner in which their activity was being carried out. For example deleting an Event- "Event Deleted."

When it came to the aspect of security, validation was a key factor. Though it was mainly used in one form or activity, it was still acceptable in addition to other status messages on the application. The application did not require much maintenance but for a future build, all aspects would need to be taken into consideration.

For starters, I would need to be more experienced in coding to use the PhoneGap software. Additionally, in order for application like these to be implemented on wider scale, it would need to be launched across servers. That was all users will have access to using this application and with this proper security measures will be put in place to ensure that the application would not be infiltrated by any unauthorized force or body. I would need to increase usability and more additional features such as animations to make the users experience more enjoyable and practical. Another feature such as a GPS, will also be recommended since it can aid in finding the location of that event and to some extent even promote that event if it's for the public.

If introduced globally, maintenance would indeed be a needed factor. From a server's standpoint, this must be done since a number of users will be granted access through the area. Tighter validation constraints are also recommended since some individuals have the mental capability to bypass such security. Touching on all forms of security, either or both of the following options can be implemented. The first, having a user account and the second just having a lock for that application. That way no unauthorized and access your application. Additionally, the application can have proper testing and documentation, that way the developers can put measures in place to guarantee that the mobile application is "top-notch".

In closing, with more knowledge and application towards mobile application development, I would be able to produce a more effective and official application. Whether Android or Non-Android, I would be able to expand my horizon as well as the Mad Discovery Application.