

## **A Digital Diary Building System Using Android Application Development**

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### **ABSTRACT**

A digit diary building system is a way to write the daily activities ,to store memories ,it also acts as a scheduler to plan according to user schedules. It contains the emoji's too to represent the feelings that you have on the particular day and it also contains the word highlighting feature ,it will help you to easily recognize the situation instead of reading the entire content of the day .It also includes the features like profile and cover photos ,backup and restore ,lock to protect your data from unauthorized persons.

**Keywords:** .Application Development, Android, Diary, Lock, Emoji, Security.

### **1. INTRODUCTION**

Now a day's mobile applications are playing a key role in the global mobile market. According to Gartner, a technology research and advisory firm, 1.1 billion devices running on Google's Android OS were shipped in 2014 alone, marking its 80 percent mobile market share[1]. Officially reported by Android Google Play Store, the number of apps in the store has reached over 1.6 million in early 2015, surpassing its major competitor Apple Apps Store [2]. Playstore provides further incentive for the users to install third-party applications, but exposes their privacy to significant security risks [3].Moreover, since Android OS is an open source platform which uses linux as a platform, it allows the installation of third-party market apps, stirring up dozens of regional and international app-stores such as PandaApp and GetJar [4]. Realizing these shortcomings in the current Android architecture, much efforts have been

put towards addressing these problems [5]. Application developers are allowed to make use of these services in their applications. Application framework includes the following major services like *Activity Manager, Content Providers, Resource Manager, Notifications Manager* and *View System*[6]. The *AndroidManifest.xml* is a key file within application structure, which is an additional Android manifest file, describing the name, version, access rights, and referenced library files for the application [7]. The writing of books and carrying them is a tedious task for everyone, everyone does not like much to carry more weight with them because it causes overburden to the person. So, in this paper we are going to propose an application which helps us to write our notes, plans and schedules. Although if we carry the physical notes we were unable to provide the security for it but in this application we were providing security to the user data through lock mode, also there may be chance to lose the book. It includes various screens which contains various features like setting the profile and cover photos from the gallery, selecting the emoji's based on our feelings at the time of writing the diary, writing the keywords if any exists also selecting the background color to that keywords. These keywords help us to easily recognize the situation that we feel on that day. It also takes the timestamp as a parameter to recall the exact time also we are allowed to delete the store data if we don't need that data again. User can also be allowed to create a backup and restore the data if the user need. The lock screen activity to set the lock for the data which restricts the unauthorized access to the data. Once the lock is activated it acts as a security to the data, while activating the lock mode the user has to set the password and also user has to enter the mail ID for the recovery purpose. The lock mode and the backup options are inserted under the settings screen. This application will help a lot to write the user daily activities and any other important data.

## **2. LITERATURE SURVEY**

### **2.1. Mobile Application:**

According to Dixon and Dehlinger(2013), mobile devices are the fastest growing computing platform with an estimated 1.6 billion mobile device users by 2013 as compared to the current estimate of 2 billion personal computer users . In the present days, the rapid development of mobile devices over the last five years has dramatically altered the platform that is utilized for social, business, entertainment, gaming, productivity and marketing using software applications [7]. With the increased processing power available on portable devices, developers tend to increase the range of services they provide. So it is crucial to understand the limitations of mobile devices in which users can interact with them such as small screen size, poor connectivity and limited input modules because all of these have an effect on the usability of mobile applications.

### **2.2. Diary Application:**

Writing diaries or personal journal are not exactly a breakthrough in any form of technology yet the habit or the practice of writing them does not only help individuals to keep track of their daily lives but

also improve their health and mental state through expressive and creative writing. This is happen to be an interesting discovery because for the past centuries, personal diaries or journals are solely use as a medium to express and record one's thoughts in a free discrimination and external criticisms space based on their life experiences, without realizing that through expressive writings of one self-thoughts. Writing diaries or personal journal has been used as a tool in enhancing learning and professional self-development. Hiemstra in 2001 argues that personal journal writing is "a learning method to aid learners in terms of personal growth, synthesis and reflection on new information that is acquired". Most of the people believe that writing diaries will leads to a way of pre-planning to attain better results in future. Beyond that, their research discovers that personal diary or journal serve as best platform to do expressive writing and the value that it provides is much significant but with lower cost and greater accessibility .

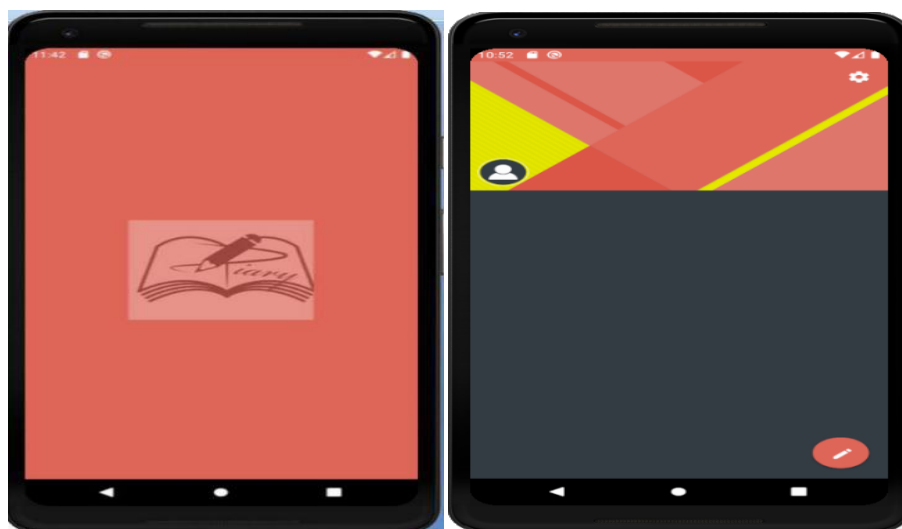
### **3. PROPOSED MOBILE APPLICATION**

#### **A. Problem Statement:**

To reduce the usage of papers by creating an interactive mobile application that will allow people to write/store their daily activities, memories, it also acts as a scheduler to plan according to user schedules also the user can able to view the data whenever he want in an user friendly and protective environment.

#### **B. Solution:**

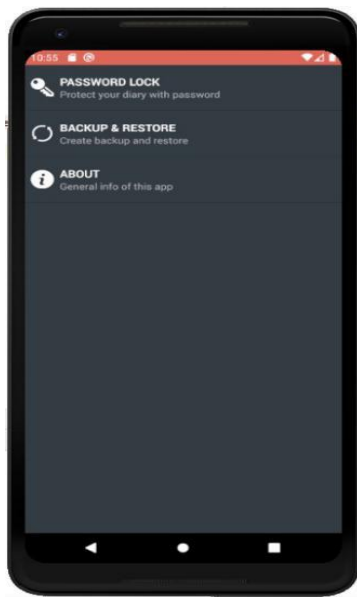
This project have been developing in the Android studio which is an Integrated Development Environment (IDE) for the **Android platform** and the results of the application are discussed and shown below in the form of figures. By installing the application in the mobile we could able to run and use it. Once the application is installed on the device we can run it by clicking the application icon which is already installed on the device. By opening it, we will see the first screen as shown in figure.1 which acts as a starting activity after a few seconds it will automatically redirects to the main screen.



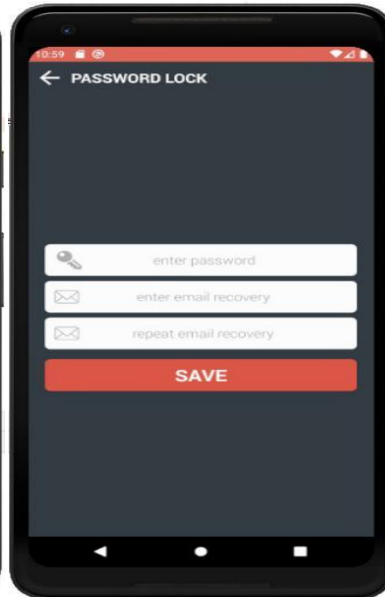
**Figure 1. Starting activity**

**Figure 2. Main Screen**

Once the start activity is redirected to the main screen of the application, user can utilize all the features included in it. The main screen of our application is shown in figure.2. It includes various features like changing the profile and cover photos, settings and a button to write the diary. From the main screen the user is redirected to either the settings screen or to diary writing screen also he can move to the gallery to set the profile and cover photos. The settings screen is shown in figure.3 which contains some more features included in the application.



**Figure 3. Settings Screen**

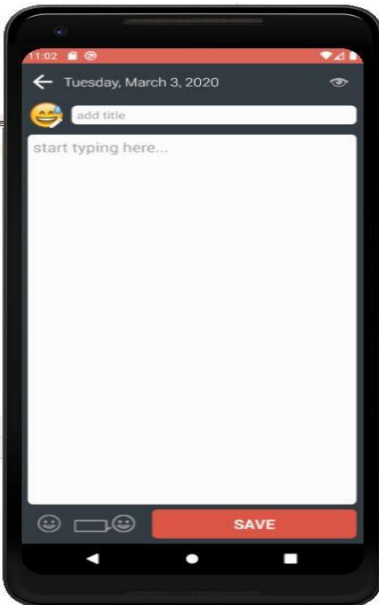


**Figure 4. Lock screen**

Once the settings screen is visible then user can see the password, backup and restore options. The figure.4 shows the lock screen activity which is used to set the lock to protect the data of the user. The figure.4 shows the fields to set the lock in order to protect the data, on clicking the save button after filling the fields the lock will be activated and whenever you open the application you have to enter the password that you have set once the lock is activated.

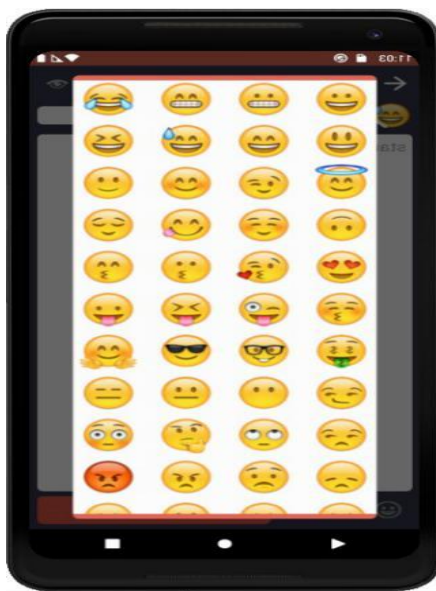


**Figure 5. Backup Screen**



**Figure 6. Diary screen**

The user can also backup their data and restore the data whenever he wants. If the user selects the diary screen from the main screen the application will redirect to the diary activity. Actually it acts as a main screen because it is the place where we can write our data. The diary activity screen is shown in Figure.6 From this screen we can select the emoji's to store our feelings on the particular day, we can add our title to the content, the actual content and we can also able to select the background color to our highlighted words. Figure.7 shows the emoji's selection screen



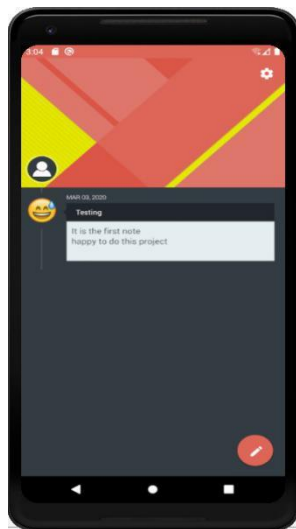
**Figure 7.Emoji's selection screen**



**Figure 8.Color selection screen**

Figure.8 shows the background color selection for the keyword in the content if exists. Then finally once the completion of writing the diary for the moment you can click the save button to save the content. You

can edit, delete and preview your data based the user need. The figure.9 shows the user data once the user have saved atleast one activity.



**Figure 9.Diary screen with data**

Figure.9 shows the main screen along with the data that the user had saved previously, if the user will save any other data that will also be displayed in the same page in the form of a list.

#### **4. CONCLUSION**

Finally the application which we proposed in this paper will store any kind of text data like the schedules, memories and the important data along with the timestamp and the feelings that the user fell on the particular day.It also provides security to the user data by providing the lock feature to the diary. Due to its usage the user does not required to carry any additional book along with him because now a day's everyone are carrying their smart phones with them, the person can use the diary instead of carrying a book.By using this application instead of books we can also reduce the usage of papers thereby we can also save the environment indirectly.

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