TAP AND PAY CALENDAR

I B V S Shiva Sai, B S Raghuram Krishna, G Aurava, S Mahboob
S Visnu Dharsini (Assistant Professor)

[1] *Under Graduated Student, Computer Science Engineering, SRM University, Tamil Nadu, India*
[2] *Under Graduated Student, Computer Science Engineering, SRM University, Tamil Nadu, India*
[3] *Under Graduated Student, Computer Science Engineering, SRM University, Tamil Nadu, India*
[4] *Under Graduated Student, Computer Science Engineering, SRM University, Tamil Nadu, India*

ABSTRACT

Our main thought is making people to pay their bills directly from their calendar itself. For this they just need to setup their information on that particular date (just like the reminders people set on their Google calendars). Just by tapping on the due, it will be redirected to its merchant portal or other payment sources depending upon the users choice. Whenever a due is raised, it will pop-up reminder quite similar to the regular reminders. We would like to name it as TAP AND PAY CALENDAR. The main motto of our app is to prevent the user from being skipped from all of his important dates in his day to day life. Generally, every person has to pay a lot of bills regularly. As the present world depends completely upon the internet, all the payments to maximum extent are carried out online. So every company which offers the services has their own portal or an app with a login id and password. Our TAP AND PAY app helps the users to store the amount they have to pay on a particular date to a particular merchant along with their login id and passwords provided by the users. During the due date our app generates a pop-up to remind the user. Just by tapping on that pop-up or on a particular date in the calendars, users will be directed to their respective merchant portal. So payments can be carried out easily and without effort. In addition the users can also their respective merchant portal. So payments can be carried out easily and without effort. In addition the users can also save their important events and their friend birthdays etc.

Keyword – *Calendar, Reminder, App, Login-id, Password*

1. INTRODUCTION:-

People write their important dates as a note on the available source present around them. Our present project mainly focuses on reminding users about their important moments and our second priority is to become a part in the user's day-to-day life. As the present world depends upon internet, all the payments to a maximum extent are carried out online. So every company which offers their services has their own portal or an app with a login id and password. Our TAP&PAY app allows the users to save the amount that they have to pay on a particular date to a particular merchant. We also provide a section for the users so that they can save their login-id and password which is basically required for their further operations over merchant's site. On the due date our app generates a popup to remind user. Just by tapping on that pop-up, users will be directed to their respective merchant portal. So payments can be carried out easily and without effort. In addition the users can also save their important events and their friend birthday etc. For example, if a person named "A" wants to pay a current bill he will setup all of his information on that particular date in the app. Whenever the A taps on the date a drop-down will be dropped showing all the dues that has been saved. Just by tapping on the due that he wants to pay it will be directly redirected to the merchant portal depending upon the merchant site address provided by the A at the time of setting up the information.

1.1 Objective:

As the present world depends upon internet, all the payments to a maximum extent are carried out online. So every company which offers their services has their own portal or an app with a login id and password. Our TAP&PAY

app allows the users to save the amount that they have to pay on a particular date to a particular merchant. We also provide a section for the users so that they can save their login-id and password which is basically required for their further operations over merchant's site. On the due date our app generates a popup to remind user. Just by tapping on that pop-up, users will be directed to their respective merchant portal. So payments can be carried out easily and without effort. In addition the users can also save their important events and their friend birthday etc. For example, if a person named "A" wants to pay a current bill he will setup all of his information on that particular date in the app. Whenever the A taps on the date a drop-down will be dropped showing all the dues that has been saved. Just by tapping on the due that he wants to pay it will be directly redirected to the merchant portal depending upon the merchant site address provided by the A at the time of setting up the information.

1.2 Organization of the report

The report is divided into 4 parts and each part deals with the different aspects of the system.

(i)System Design: This part talks about the existing system, how they are designed and the issues associated with them. Furthermore, it describes the features of the system proposed and the requirements for operating it.

(ii)Module Description: This part describes each module implemented in the system, i. e., how the data is processed in each and what are the steps involved from the user's point of view . Each module is diagrammatically represented so that there is a clear understanding about what happens at that particular step.

(iii)System Implementation: This part deals with an overview of the platform for which the system is developed for. It also talks about the parameters needed for running the system and provides a sample of code used, along with screenshots of the output.

(iv)Conclusion: This part concludes the report and discusses the possible enhancement that can be implemented in the future improve the quality.

2. Existing System:

Existing system is quite good and efficient. Just we are going to add an additional features depending upon the users. Existing system is good but doesn't work offline. As the majority of the present calendars service providers use cloud technology it is almost impossible for the user to access his personal data offline. If the user gets into poor network area there is a maximum probability that the user's misses their task. Even if one task gets loaded further details of that particular task won't be available for the user. There also a security issue with respective to the personal data if it gets stored in the cloud. All these reasons lead to the development of our current project. We would like to provide an option for the user to backup their information but it is not compulsory.

2.1 Issues in existing system:

Existing system completely relies on the internet. So it will be difficult for the users who are in the bad network area. So we would like to provide only optional backup for the users so even in the poor network conditions their daily tasks can be carried out without any interventions. We just like to decrease the dependence upon the internet to a partial extent. Existing system is quite good and efficient. Just we are going to an add additional features depending upon the users. Existing system is good but doesn't work offline. As the majority of the present calendars service providers use cloud technology it is almost impossible for the user to access his personal data offline. If the user gets into poor network area there is a maximum probability that the user's misses their task. Even if one task gets loaded further details of that particular task won't be available for the user. There also a security issue with respective to the personal data if it gets stored in the cloud. All these reasons lead to the development of our current project. We would like to provide an option for the user to backup their information but it is not compulsory.

2.2 Proposed system:

As the present world depends upon internet, all the payments to a maximum extent are carried out online. So every company which offers their services has their own portal or an app with a login id and password. Our TAP&PAY app allows the users to save the amount that they have to pay on a particular date to a particular merchant. We also provide a section for the users so that they can save their login-id and password which is basically required for their

further operations over merchant's site. On the due date our app generates a popup to remind user. Just by tapping on that pop-up, users will be directed to their respective merchant portal. So payments can be carried out easily and without effort. In addition the users can also save their important events and their friend birthday etc. For example, if a person named "A" wants to pay a current bill he will setup all of his information on that particular date in the app. Whenever the A taps on the date a drop-down will be dropped showing all the dues that has been saved. Just by tapping on the due that he wants to pay it will be directly redirected to the merchant portal depending upon the merchant site address provided by the A at the time of setting up the information.

3. MODULES :

We are implementing our project in the form of an application so that we can fit into every smart phone to help our users. Our project is divided into six modules:

- **Welcome activity**
- **Sign-up activity**
- **Login activity**
- **Calendar activity**
- **Payments activity**
- **Reminders activity**

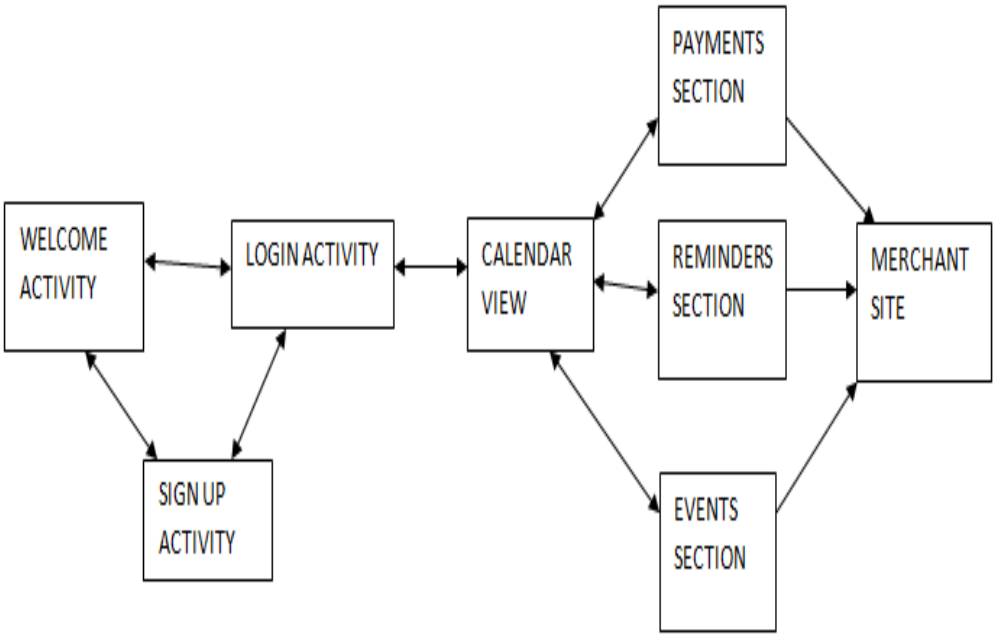

Fig-1: Modules

3.1 Welcome activity:-

This is used to guide the users either to login for existing users or sign-up for creating a new account for the new users. This activity provides two different buttons for the users to either login or sign-up. On clicking login button it takes users to the login activity. On clicking sign-up activity it takes the users to the sign-up activity.

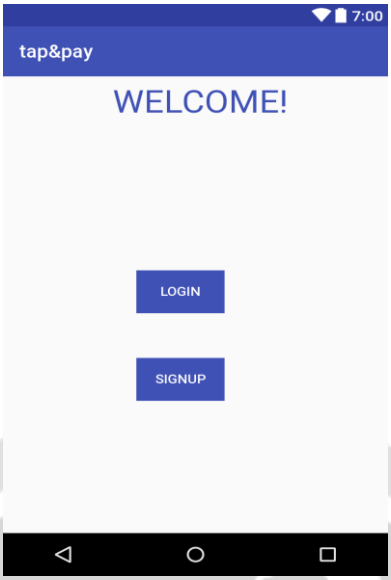

Fig-2: Welcome activity

3.2 Sign-up activity:

This allows the new users to create a new username and create a new password and also to re-type the newly created password and continue.

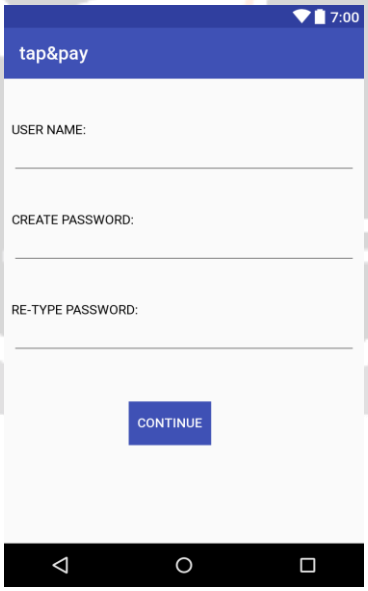

Fig-3: Sign-up activity

3.3 Login activity:

Its like a key for the application just by preventing un-authorized users from using others personal data by providing the authorized users with a user name and password.

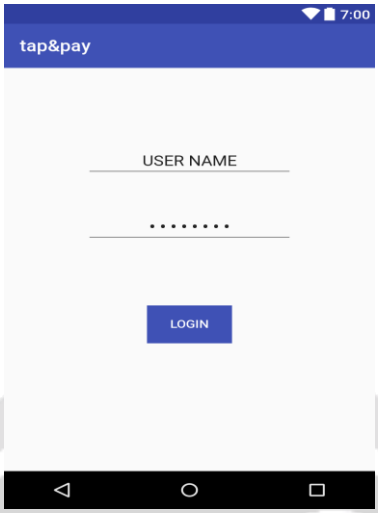

Fig-4: Login activity

3.4 Calendar activity:

This activity displays a calendar for the user so that they can plan their tasks or events according to their schedule. It also acts as a date picker for the user so that he can assign a particular date to a particular task.

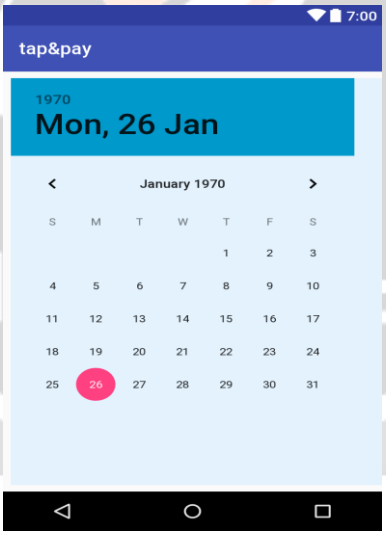

Fig-5: Calendar activity

3.5 Payments activity:

In this module the app allows the users to save their payment details here. Also a time picker section will be provided so that user can set the time to carry out his tasks. Also the application uses this data to remind the user at that particular interval so the user doesn't miss with the task that he want to execute. Also an edit section will be provide parllely inorder to allow the user to delete or edit a particualr task. Just by tapping upon the desired description the user will get into in-depth explanation of that particular task and can procced out further instructions.

3.6 Reminders activity:

In this module the app allows the users to save their payment details here. Also a time picker section will be provided so that user can set the time to carry out his tasks. Also the application uses this data to remind the user at that particular interval so the user doesn't miss with the task that he want to execute. Also an edit section will be provide parllely inorder to allow the user to delete or edit a particualr task. Just by tapping upon the desired description the user will get into in-depth explanation of that particular task and can procced out further instructions.

4. SYSTEM IMPLEMENTATION:

4.1 Introduction:

The system is developed using Android Studio and can be operated on any android system that has version 4.0 or higher .It occupies roughly 10MB of the internal storage and can be operated without any issues on a device having a minimum of 512MB RAM and a 1GHz processor.
Front End Tool: ANDROID-JAVA, Backend Tool: Microsoft SQL Server The purpose of having a software requirement specification document is to have an understandable, unambiguous and complete specifications documentation requirement for the project.

Hardware Requirements: Processor: 1GHz processor and Above, RAM: 512 MB**,** Screen size: 3.5 inches or more screen size.

Software Requirements: Operating System: Android**,** Developing Tool: Android Studio**,** Database: MySQL.
Tools and Technology Used: Language: Android**,** Front-end: Android, XML**,** Back-end: Microsoft SQL Server

4.2 Integration of modules:

All the modules (activities) are integrated to one another using JAVA and XML. Integrating the modules helps the users to get access to their requirements easily.

5. CONCLUSION:

The application is designed in such a way that any further enhancements can be done with ease. The system has the capability for easy integration with other systems. New modules can be added to the existing system with less effort. The system has six classes. Each of these classes has various procedures and functions. In future a new function or procedure can be easily added in the system through these classes. Or even a new class can be added. The system generates can handle only a limited number of tasks for a same time. If more detailed reports are required the system can be directed. Even though the system has well communication facility, it's not enough. The service can be enhanced with features bcc, cc etc. The system has full security but the account information for the customer credit information. Thus by adding this module the system transaction will be improved.

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BIOGRAPHIES

	I B V S SHIVA SAI Under graduated Student , Computer Science and Ramapuram Chennai(TN)
	B S RAGHU RAM KRISHNA Under graduated Student , Computer Science and Ramapuram Chennai(TN)
	G AURAVA Under graduated Student , Computer Science and Ramapuram Chennai(TN)
	S MAHBOOB Under graduated Student , Computer Science and Ramapuram Chennai(TN)