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Easy App for Expense Manager Using Android

[1]Y.Anitha, [2]R.Ranjini and [3]S.Gomathi,
[1]Student, [1,2]Assistant Professor,
[1,2,3]Department of Information Technology, Sri Krishna Arts and Science College, Coimbatore, India

***Abstract*:** This research is used to manage the user's expenses in an effective way. The system facilitates entering expense report and tracks all expenses and income so as to keep the user on financial stability path. The esixting system does not provide the user portable device in management level, existing system only used on desktop software so unable to update any where expense done and unable to update the location of the expense details. The user have to get registered by providing the user's details such as user name, email address, etc with which the can get registered ony once. It consists of the expense book module to add list the income and expense details the remainder is set if the expense type is future. The entire income and expense details can viewed and updated.

Keywords: *User Account Creation; Category Master; GPS Location; Remainder*

I. INTRODUCTION

The app which is developed using Android as front end and SQL Lite as back end. Expense Manager helps in keeping a record of daily Expenses and Income while user are on move and allows to generate customized Expense and Income report. The system facilitates entering expense report. It tracks all expenses and incomes so as to put the user on the path to financial stability and Tracking expenses and incomes by week, month and year as well as by categories. For using the Expense Manager the user have to be get registered by providing the user details such as user name, email address, pass word, and the confirm password of the user. User can get registered only once. After login, the Expense Manager consists of Expense Book module to add and list the Income and Expense details. By pressing the add button, the income or expense details such as name, amount, type, category, method of payment, date, remainder if the type is Future Expense and description can be added. The name of the income and expense are displayed in list view with three different colors for income, past expense, future expense. The remainder is set if the type is future expense. The entire details of the income or expense can be viewed or updated or can be deleted by long pressing the particular list item. The items in the list can be filtered by month, year and date. Once the end of the month is reached the total income, total past expense and total future expense are calculated and displayed for the user.

II. EXISTING SYSTEM

The Expense manager existing system does not provide the user portable device management level, existing system only used on desktop software so unable to update any where expense done and unable to update the location of the expense details inconvenient that the proposed system provides.

III. FRAME WORK

Providing an open development platform, Android offers the developers the ability to build a rich and innovative application. Developers are free to take advantage over the device hardware, access location information, to run background services, to set alarms, add notifications to the status bar,etc..Developers have access to the framework APIs which is used by the core applications. The application architecture is designed to simplify and reuse the components; any application can publish its capabilities to any other application may then make use of those capabilities (security constraints that is enforced by the framework). The same mechanism allows the components to be replaced by the user. Basically all applications are a set of services and systems, including: a rich and extensible set of views which helps to build an application that includes lists, grids, text boxes, buttons, and an embedded web browser Content Provider that enable applications to access data from any other applications (such as Contacts) or to share their own data to other applications. The Resource Manager provides access to the non-code resources such as localized strings, graphics and the layout files. The Notification Manager that enables all the applications to display custom alerts in the status bar. The Activity Manager that manages the lifecycle of the applications and provides a common navigation back stack of it. For more details and walkthrough of an application, see the Notepad Tutorial.

A. Libraries

The android includes a set of C/C++ libraries which is used by various components of the Android system. These abilities are exposed to the developers using the Android application framework. Some of those core libraries are listed below:

System C library - the BSD-derived implementation of the standard C system library (libc), tuned for embedded Linux-based devices.

B. Media Libraries

Packet Video's Open CORE; the libraries which supports playback and recording of popular audio and video formats,static image files which includes MPEG4, H.264, MP3, AAC, AMR, JPG, and PNG.

C. Surface Manager

Manages the access to display the subsystem and seamlessly composites 2D and 3D graphic layers from multiple applications.

D. LibWebCore

The modern web browser engine which powers both the Android browser and an embeddable web view browser.

E. SGL

The underlying 2D graphic engine.

F. 3D libraries

An implementation based on OpenGL ES 1.0 APIs; the libraries use either the hardware 3D acceleration or the highly optimized 3D software rasterizer.

G. Free Type

The bitmap and vector font rendering type.

H. SQLite

A powerful and a lightweight relational database engine available to all applications

IV. MODULES

A. User Creation

In the account creation module, the user can create 'n' number of accounts with individual maintenance.

B. Category Master

This module mainly depends on the SQL Lite database for storing category detail and expense details and income. The category transaction is stored in a SQL Lite database.

C. Daily Transaction with GPS Location

This module mainly depends on the SQL Lite database for storing income and expense details. The transactions details are stored based on the different categories like income, savings, transport expense, material, salary etc. The Transactions are stored in a SQL Lite database with GPS location update.

D. Management View- Date Wise

The Expenses are listed based on the Specified date wise in this module. By retrieving all the income and expense details are viewed as a list of transactions categories by our different expenses. The income and expenses are retrieved by using SQL Lite queries and viewed in smart phone.

E. Management View- Category Wise

The Expenses are listed based on the Specified category wise in this module. By retrieving all the income and expense details are viewed as a list of transactions categories by our different expenses. The income and expenses are retrieved by using SQL Lite queries and viewed in smart phone.

F. Remainder

The Remainder module is an alarm generator module, for user remembrance the alarm / alert will recall the user to add the Income or Expenses at daily or Certain Period bases on users need.

CONCLUSION AND FUTURE ENHANCEMENT

Android now provides a neck to neck competition. Having been a user of mobile technologies, seem to enhance and add in new features to make their products more stable in the market. This project development has put the curiosity of mobile development to rest. This highlights the results of the project and the snapshots of each of the activities are shown along with the discussion of each activity that describes its working. Every snapshot describes every single step of the lawsuit application. Three main activities and the options provided to the lawyers in each activity like the menu options and the activities which are created by the click on these options are also shown and described in brief. As the application is used to enter the details of the amount spent by the user and sends a monthly notification about the total income, past expense and future expense of the user. All of the entered inputs from the application are stored in the database, and the final result is that the lawyer can view about case details. So the application is very user friendly, and very easily manageable and accessible due to database management. Mobile domain on the other side is growing very fast and less resources (Human Resources), Future Mobile Application Testing is directly proportional to the growth of Mobile Development and research. The Future Enhancements, the application can be allowed to support in all the android versions. History can be set to view all the details even, if the particular detail is deleted from the

database. Statistics can be prepared based on the Income and Expense details of the user.S haring files via Bluetooth or watsapp can be allowed. Printing the details of particular income or expense details can be made.

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