

Expense Manager

PROJECT REPORT

Submitted for fulfilment of laboratory work in
SOFTWARE ENGINEERING (3150711)

In
COMPUTER ENGINEERING

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Practical 1:

Project Introduction

Introduction :

Expense management application is a type of application that simplifies the receipt-to-reimbursement process by automating much of it. With this application, firms can manage travel bookings, automate expense report submission, streamline approvals, accelerate reimbursements, and track expense claims in real time. We can also manage personal expense, small business expense and large business expense individually.

Key features include :

The app manage personal expense and income, Scan bill/receipt automatically and add to our expense, Categorize transaction and to track spending, Authentication based login.

- **Authentication based login :**

Authentication based login is mostly used for categorised access controls as per customers role and authorities. It's also provide privacy and security. For authentication based login, application verify user's identification and after that approve or decline the authentication to use application.

- **Expense management options :**

Provide different expense management options for individual expense, small business, large business. User can manage their personal expenses. They can also manage their small business expenses, large business expenses and also manage travel expenses.

- **Categorize transaction :**

Users can categorised expenses as per their expectations. They can manage their expense using deferent deferent categories.

For ex : Users can divides expense in different categories like food expense, entertainment expense, travelling expense etc...

- **Bill/Receipt scanner :**

User can scan receipt or bill and application add it automatically into user's expense. User can safely save any data like receipt/bill and never lose it. User can centralise all receipts in one app.

- **Anytime access :**

User can add, update, delete any expense anytime and from anywhere.

Functional Requirement :

Manage expense as per user's income :

Users can set expense goal in different categories as per their income and track their expenses as per their goal.

Automatic travel expense generator based on distance and place :

When user enter distance between two place and location of place , then application should count expense automatically based on users past expenses.

Take control of budgets :

When user set their budgets , application automatically manage their expense and give alerts if user pay more expenses in any categories out of their budget .

User interaction details :

Application records all details of user's interaction like who user've paid, what user've paid, and when user did it etc...

Currencies :

User can manage expense in any currency. Because of this option, any user from any country can use this application and manages their expenses.

Non-Functional Requirement

Availability :

User can install application from Apple App Store and Googles Play Store and look for regular updates give rating and feedback.

Performance :

When application is made to start up it shouldn't take more than 3 second to load initial screen. Also, it should be made sure that app will not hindrance to the user Input.

Responsiveness :

When app gets interrupted by call, then app should able to save state and return to same state/ page which was there before it got interrupted.

Screen Adaption :

Application should be able to render its layout to different screen sizes. Along with automatic adjustment of Font size and image rendering.

Capacity :

The capacity of application refers to the amount of storage it offers. When using some applications, users can adjust and save settings based on their preferences.

Localization :

A localized application has features that match the geographical location of its users, including aspects such as:

Languages

Currencies

Time zones