*Project Report on*

**G.E.T (GROUP EXPENSE TRACKER)**

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**Autonomous - Affiliated to University of Mumbai**

**Department of Information Technology**

# CERTIFICATE

Certified that the experimental work was entered in this journal as per syllabus in **B.Sc.Information Technology** for **Software Project Management** as prescribed by University of Mumbai and was done in K.J. Somaiya College of

Science and Commerce by the student Shri/~~Kumari~~ **ASISHKUMAR GOUDA** having Seat No. **2106827** Of class **TY.B.Sc.Information Technology** during the academic year 20**21** - 20**22**

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Date: Date:

**Acknowledgement**

In the present world of competition there is a race of existence in which those are having will come forward succeed. Project is like a bridge between theoretical and practical working.

We express our deep gratitude and appreciation to those who agreed to participate in this project, for their time expended and courage in sharing their insights with the fledging students. It is to them that we are most indebted, and we can only hope that the product of our collaboration benefits each one as much as we are benefitted from process.

We have been immeasurably enriched by working under the supervision of Mrs.Prajakta Kamble, the subject teacher, who has a great knowledge and who has an art of encouraging, correcting and directing us in every situation possible, which has enabled us to complete our project.

At times, our studies carried out at great cost to those closest to us. We thank our family and our fellow students for their best understanding and support. We acknowledge to all the people who have involved and supported us in making this project.

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**Abstract**

*This Expense Tracker application falls in the Finance Category and serves the important purpose of managing finances which is a very important part of one’s life. This application allows multiple or single users to maintain a digital automated diary. User need to register first to access the application for which the user will be provided an id, which will be used to maintain the record of each unique user.*

*Application allows user to add trip to calculate all the expenses done by each member in the group. Expense Tracker application which will keep a track of IncomeExpense of a user on a day-to-day basis. This application takes all the expenses from multiple users and divides the amount round sum amount between each.*

*Expense tracking application will generate report as and when required to show the expense via multiple graphs. The application also specifies the name of group member to whom the amount is to be given equally.*

## Introduction

The purpose of this document is to collect, analyze and high-level requirements and features of this mobile application. It focuses on the capabilities needed by the target users. The document contains a mention of the purpose of the system, its overall description, specific requirements pertaining to the same and other supporting information.

## 

### Background

The group expense tracker manages all your financial accounts in one convenient place and makes your money management much easier and handy. Our expense tracking software lets you compare your spending with other friends who share similar group circles so you can see how much they typically spend and identify the best ways to save on your money. With expense tracker you can not only view your investments at each stage but also can send notifications to Facebook friends at the time of group creation and logging expenses. Our application is new concept very easy and simple to handle, not very complicated as other mobile applications. The main benefit of using mobile phone is that it’s simple and innovative.

## 2) Survey of technology

**XML**: Extensible Markup Language (XML) is a markup that defines a set of rules for encoding documents in a format that is both human readable and machine readable The World wide web consortium's XML 1.0 specification of 1998 and Several other related specifications all of them free Open Standards - define XML.

**JAVA**:- Java is a high level programming language originally developed by sun Microsystems and released in 1995. Java is a portable Language which runs on variety of platforms Such as windows, Linux, Mac Os, etc. It provides multiple features like much more compatible, stable, secure , etc. It also supports multi- Tasking.

**Android**:- Android Language was developed in 2008 which uses Java as Programming Language and also uses Kotlin. Google states that "Android apps can be created by using Kotlin, Java and C++"but most of the android apps can be created using Java and it is written using Android (SDK)

**SQLite** **Database**:- SQLite is an open source Relational Database i.e used to perform database operations on the android devices such as storing manipulating or retrieving Persistent data from the database. It is embedded in Android by default So there is no need to perform any database setup or administration tasks.

## 3) Requirements and Analysis

**3.1** **Problem Definition**

**3.2 Requirement specification Functional Requirements:**

**User**:

**Register/Login:**

**Admin**:

* **Non Functional Requirements:**

* **Availability**:

The app service must be made available 24/7.

* **Security**:

The app must encrypt user passwords and must assures all the security aspects of user personal data.

* **Maintainability**

The app should be updated on the regular basis so that solution to any issues or new features will be incorporated.

* **Reliability**:

The app must never crash more than 10 minutes per month and mut be trustworthy.

* **Design Constraints:**

The app design must give an attractive look.

**3.3 Planning and Scheduling**

**3.4 Hardware and Software requirements Software Requirements :**

* + - * Android Studio (latest version above 3.5)
      * Windows 7 or more
      * Front End: XML
      * Backend: Java, SQLite, Firebase
      * Programming : Android **Hardware Requirements:**
      * Minimum 4GB RAM,8GB RAM (Recommended)
      * i3 processor or above.
      * 250GB hard disk drive• Android real phone device.

**3.5 Conceptual Model 3.5.1 Use case diagrams** Login:

Register:

User homepage:

Admin homepage:

* + 1. **ER Diagrams**

* + 1. **Data Flow Diagram**

### 3.5.4 Class Diagram

### 3.5.5 Activity Diagram

### 3.5.6 Flow chart diagrams

Registration module:

Login module:

User homepage module:

Admin homepage module:

## Project Spiral model

Spiral model one of most important models which supports Risk handling, looks many loops, each loop is known as phase of software development process, it follows incremental approach. Spiral model is suitable for Risk Handling, best for large project(complex), flexibility in requirements and most important Customers specifications. Customers involvement can be done at early phase, feedback can be taken.