

# CAMPUS EXPENSE MANAGER

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## **Scenario Issue**

University students often struggle to effectively manage their expenses and stay within their budgets because they lack a convenient tool to track their expenses, set budgets, and understand their financial habits. As a result, college students may face problems such as

### **REDUCED QUANTITY OF LIFE**

**INCREASED FINANCIAL  
PRESSURE AND  
STRESS**



**LIMITED LEARNING  
AND DEVELOPMENT  
OPPORTUNITIES**

# SOLUTION

**CampusExpense Manager is an expense management app that helps student track their income and expense according to different categories**

**CampusExpense Manager is designed specifically for college students. The goal is to develop an easy-to-use application that helps students manage spending effectively and save money**



# Goals ET Objects

## GOALS

**Develop an easy-to-use expense management application that helps college students track income and expenses, set budgets, view spending overviews, add recurring expenses, create expense reports, and Receive spending notifications**

## OBJECTS

**Targeting university students, including both boarding and non-resident students, is a group of people who have high need for spending management, but lack experience and skills in financial management**

# FUNCTIONAL REQUIREMENTS

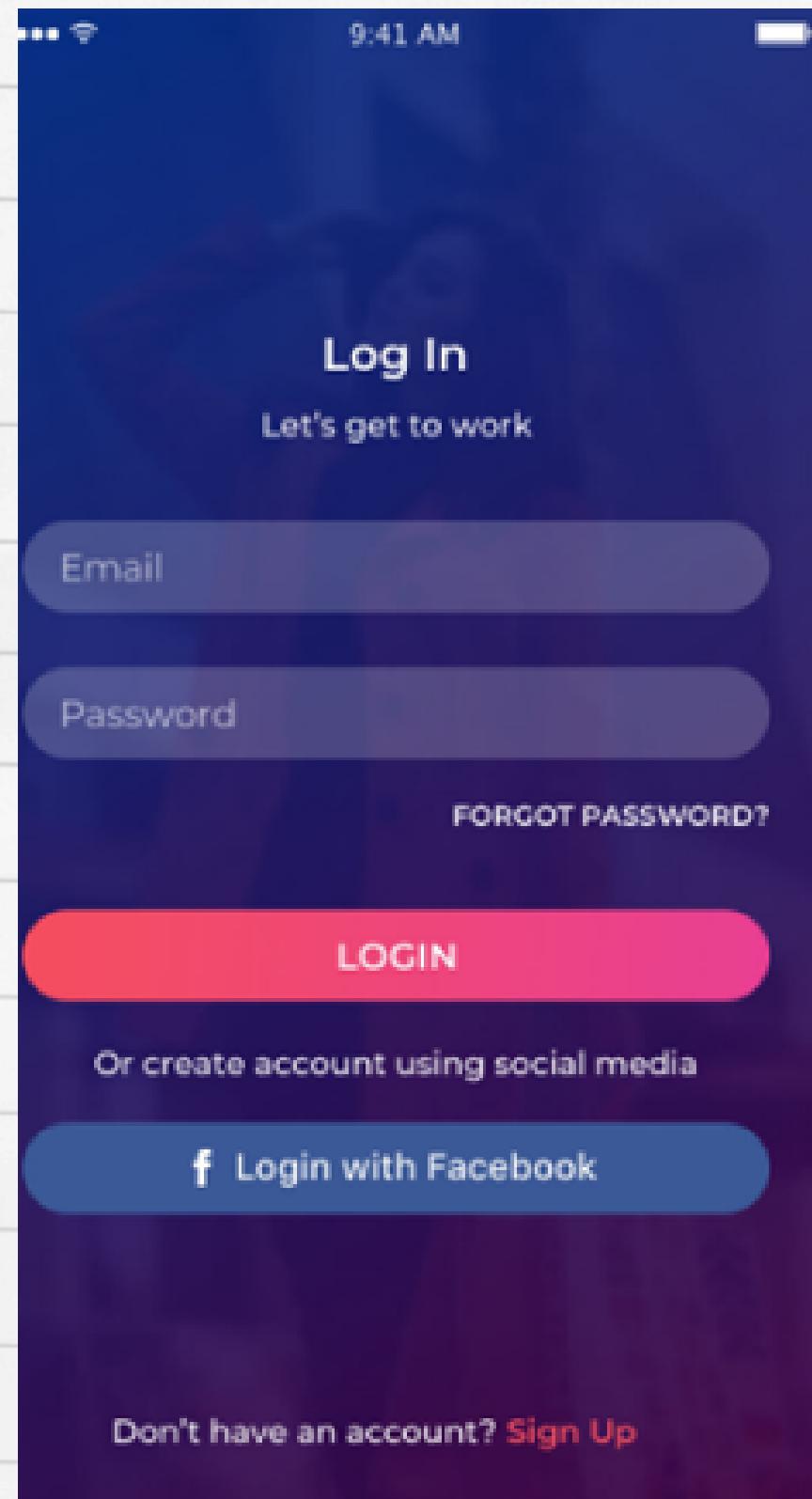
**Register  
User Authentication  
Expense Tracking  
Budget Settings**

**Expense Overview  
Recurring Expenses  
Expense Reports  
Cost Notifications**

# Function

## Requirement

- User registration and authentication
- Expense Tracking



- Budget settings
- Expense overview
- Recurring Expenses

# FUNCTION REQUIREMENT

## EXPENSE REPORTS

Allows users to create detailed expense reports for specific time periods, such as monthly or yearly. Reports must include a breakdown of income and expenses by category, comparing actual expenditures with budgeted amounts. The app must also allow users to export or share report via email, social networks, or cloud services.

## COST NOTIFICATIONS

Send reminders or notifications to users when they reach or exceed budget limits for specific categories. The app must also provide feedback on users budget performance and progress, offering advice on how to improve their financial situation.

# Non-functional Requirements

## Performance

The application must provide a smooth and responsive user experience, even when there is a large amount of data spent. Apps must optimize the speed and efficiency of data processing and storage, and minimize device resource consumption

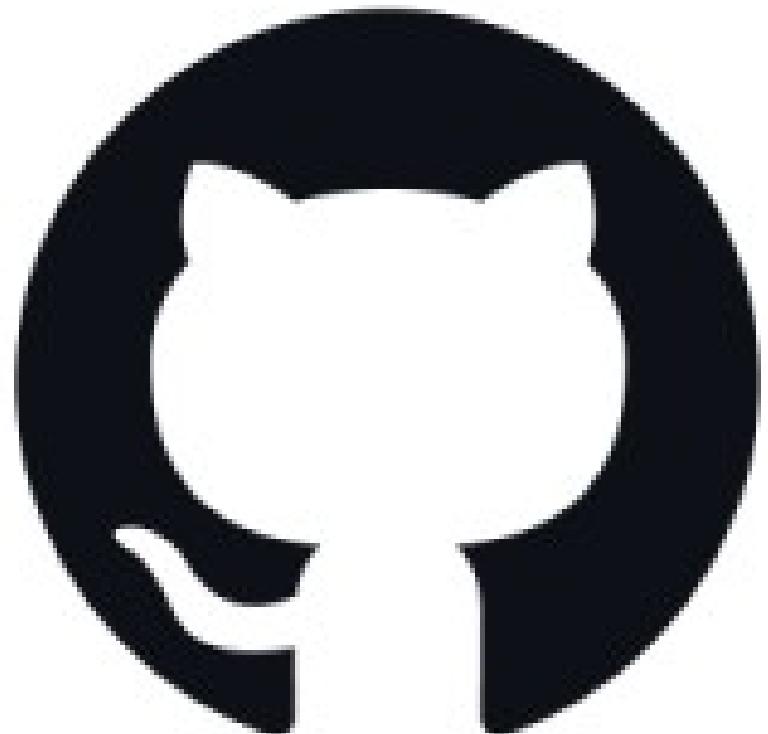
## User-friendly interface

Mobile apps are often thought of as the opposite of a desktop app running on a desktop computer, and a web running on the device's web browser

## Platform compatibility

Apps should be developed for both Android and iOS platforms to reach a wider user base

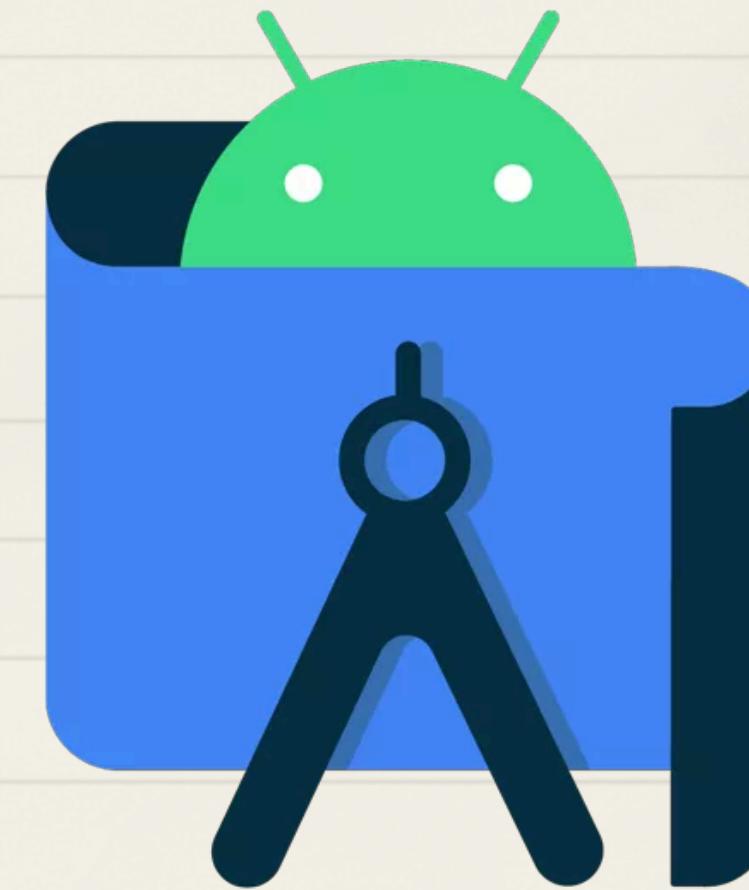
# Tool difficulty



Microsoft

Project 2019

Professional



**PROJECT MANAGEMENT:**  
Microsoft Project, Github

**IDE:**  
Android Studio

# Requirements Diffculty

- **PLATFORM COMPATIBILITY:**

Budget Wise Solutions is only have experience with develop android application using java



- **DOESN'T HAVE IN-APP ADS OR PREMIUM FEATURES**

Budget Wise Solutions team don't know how to run advertising and don't have any feature that need to pay to use yet



# SKATEHOLDER

- Student : Nguyen Manh Cuong

As the primary user of the application, their needs should be the top priority.

- Development and designers: Nhom5

The development team and designers are responsible for creating and maintaining the application, which heavily impact the success of the project

- Educational institutions: FPT College

Colleges and universities have a vested interest in providing financial resources and support to their students

- Financial Institution: MBB

Banking and credit card company integrated with the app can provide suitable financial services for students.

# STAKEHOLDER

- Government and regulatory bodies VietNam

Government entities and regulatory bodies may have an interest in overseeing the application's compliance with financial regulations, privacy laws, and data security standards.

- Administrators

Campus administrators, including financial aid officers and bursars, play a role in managing student finances

- Security and privacy experts: Quan Cong, Lu Bo

Experts in security and privacy play a crucial role in ensuring the application's data security, protecting user privacy, and minimizing the risk of financial fraud or breaches.

# WHAT DO THE STAKEHOLDERS WANT?

- Student : Nguyen Manh Cuong

I want the app to provide me with convenience and assistance in managing my finances

- Educational institutions: FPT College

We want the app to promote financial responsibility and help our students manage their expenses effectively

- Development and designers: Nhom5

We want the app to want it to be user-friendly reliable and secure

- Financial Institution: MBB

We want the app to promote financial literacy and encourage responsible financial behavior among students.

# WHAT DO THE STAKEHOLDERS WANT?

- **Government and regulatory bodies VietNam**

We want the app to provide accurate reporting and documentation features that can help students manage their tax obligations and comply with financial regulations.

- **Administrators**

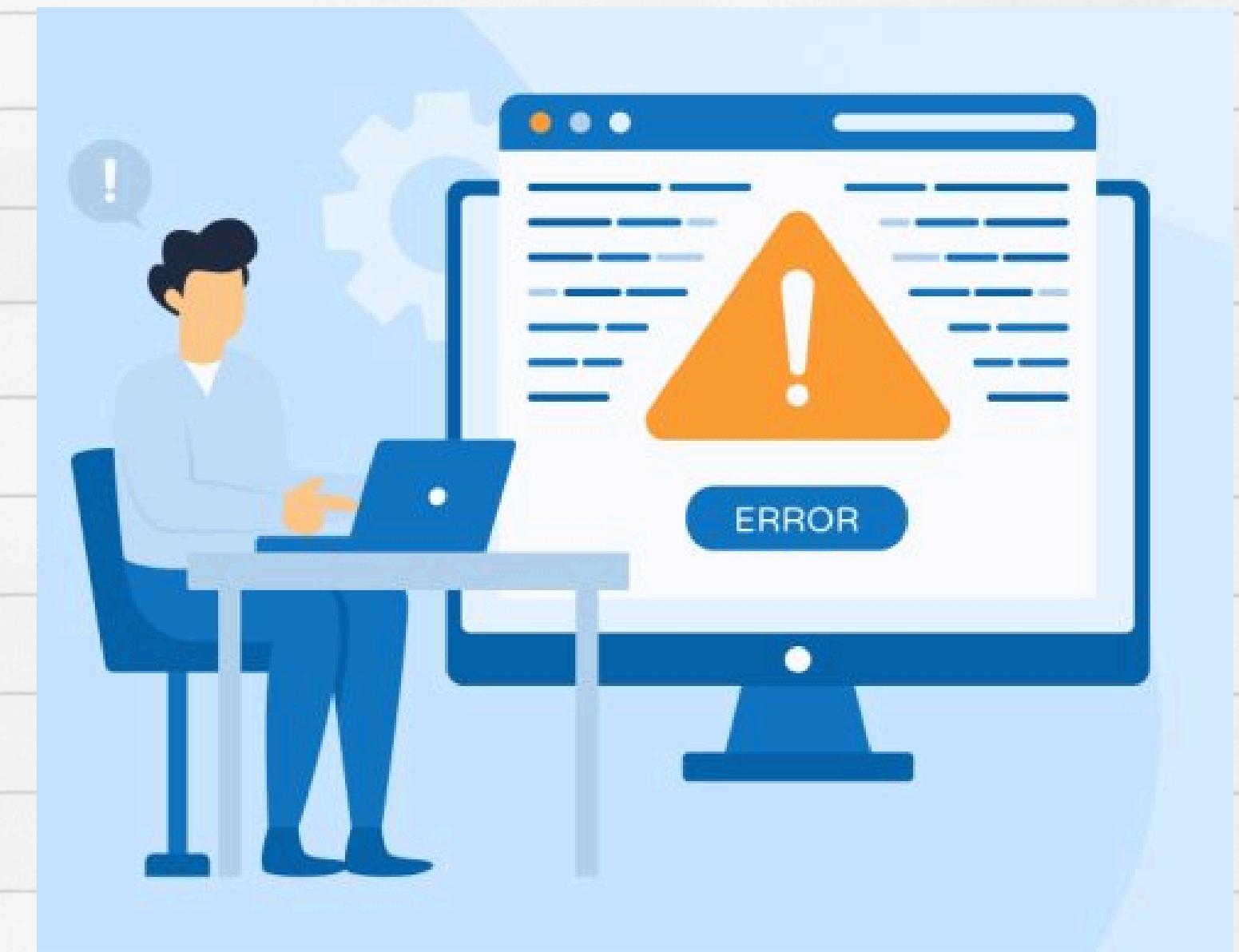
We want the app to streamline the financial process.

- **Security and privacy experts: Quan Cong, Lu Bo**

We want the app to have robust data encryption, secure authentication, data minimization, transparent privacy policies, regular security updates.

# Development Difficulty

- Gathering end-user data: lack or untrustworthy data source, lack of participant, or generate useless data.
- Balance time and resource: Team members cannot catch up with their deadline or have others expense that are required and not predictable.
- Collab and communication: Team member can't work with others for some reason.
- Lack of experience: team might encounter a problem and does not known solution



# Compare business application solutions

Application Requirements	Mobile app	Web-based app	Desktop app
Easy to access	High	High	Lowest
Required large screen space	No	Depends	Yes
Offline Capability	Yes	No	Yes
Have Notifications	Yes	No	Yes
Performance	Medium	Slowest	Fastest
Large user engagement	Largest	Medium	Lowest

# Project risks

- Spend all project's budget

The project have spend all the budget and don't have enough finical to countinue developing, causing deadlines delay and bankruptcy

- Miss deadline

A member or the whole team miss deadline, which makes the overall project deadline delay, make stake holder dissatisfied, causing lose in financial.

- Database vulnerale

Application database can get unauthorized access and data breaches, causing data getting lost or use for unwanted purpose

- Bug and Dissatisfied

End-user experience bug or dissatisfied with application, which lead to lose our own customers

# Solution Risk

- Spend all project's budget

Project budget has 1000\$ spare to handle risk overspending and all team member must regularly check all the expense to prevent overspending

- Miss deadline

Project timeline has 2 weeks to handle risk missed deadline and all team member must review others progress to soon identify and fix the issue

- Database vulnerale

Encrypt and backup data in database, and regulary update and patch security vulnerabilities

- Bug and Dissatisfied

Develop a feedback management to help keep contact with the customers, fixing.

**THANK  
YOU VERY  
MUCH!**