Department of Computer Science Engineering

SRM IST, Kattankulathur – 603 203

18CSC206J – SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

Experiment No	01
Title of Experiment	To identify the Software Project, Create Business Case, Arrive at a Problem Statement
Name of the Candidate	Sai Rohit P
Team Members	Sai Rohit (RA2111003010806) Pavan Sagar (RA2111003010809)
Date of Experiment	

Mark Split Up			
S.No	**Description**	**Maximum Mark**	**Mark Obtained**
1	Exercise	5	
2	Viva	5	
Total		**10**	

Staff Signature with date

Aim:

To frame a project team, analyze and identify a Software project.
To create a business case and Arrive at a Problem Statement for the TimetableSOS

Team Members:

S. No.	Register Number	Name	Role
1	RA2111003010806	Sai Rohit	Lead / Rep
2	RA2111003010809	Pavan Sagar	Member

Project Title: TimetableSOS

Project Description:

With this app, students can easily input their class timetable and receive real-time notifications on their phones. The app provides an in-dismissible notification for the current class that is happening, so the student is always aware of the class and its details.
The notification includes important information about the class such as the name of the class, the start and end time, the classroom details, and the name of the professor conducting it.
This helps students keep track of their schedule and avoid missing any classes.

Result:

Thus, the project team formed, the project is described, the business case was prepared and the problem statement was arrived.

Business Case for TimetableSOS

Date: 31/01/2023

Submitted By: Sai Rohit

Role: Lead

Benefits of the Application

- Input class timetable: Allows students to input their class schedule into the app for easy tracking.
- Real-time notifications: Sends in-dismissible notifications about the current class, including its name, start and end time, classroom location, and professor's name.
- 10-minute reminders: Sends a notification 10 minutes prior to the start of the next class, helping students stay on track.
- User-friendly interface: The app is easy to use with a user-friendly interface.
- Customizable notifications: Allows students to adjust the notification settings to their preference.
- Missed class reminders: Helps students avoid missing classes by sending real-time notifications about the current class.
- Guilt-free experience: Sends annoying notifications about ongoing classes, so students who are knowingly skipping class will feel guilty and be reminded of the class they are missing.
- On-the-go access: Allows students to receive notifications and stay on top of their schedule even when they are away from their desk.
- Easy to use: The app is simple and easy to use, so students can quickly input their timetable and start receiving notifications.
- Campus navigation: Helps students find their way around campus by providing classroom details in the notification.

Business Model

- From a business perspective, there is a significant market for this type of app, as most college students have a packed schedule and struggle to stay on top of their classes. By offering a convenient solution to this problem, "TimetableSOS" can quickly become a popular app among college students.
- In addition, the app offers a wide range of monetization opportunities. For example, the app could be offered for free with in-app purchases to unlock premium features, or it could be offered as a subscription-based service. The app could also generate revenue through advertising, where businesses could target students with relevant advertisements based on their schedule and location.

The History

- Many college students struggle to keep track of their schedules and avoid missing classes.
- With a packed schedule and numerous classes to attend, students can easily forget about a class or lose track of time.
- This can lead to missed classes and lower grades.
- Students are often in need of a convenient solution to help them stay organized and on top of their schedules.
- Some students may benefit from a personalized experience that allows them to adjust notifications and reminders to their specific needs.
- Many students are likely to be receptive to an app that can help them stay on track and avoid missing classes.

Limitations of the App

- Limited Integration with college systems: The app's functionality may be limited if it does not have direct integration with a college's class scheduling system. This could result in outdated or inaccurate class information for students.
- Reliance on User Input: The accuracy of the app's notifications and reminders depends on the user's ability to input accurate and up-to-date class information. If the user fails to do so, the app may provide incorrect information.
- Reception to In-App Notifications: Some students may find the in-app notifications to be intrusive or annoying, particularly if they receive notifications during class time or during their free time.
- Limited Functionality for Non-Class Scheduling: The app is primarily designed to help students keep track of their class schedules. It may not be as useful for students who need to track other aspects of their daily routines or responsibilities.
- Technical Difficulties: Like any software app, "TimetableSOS" may experience technical difficulties, such as crashes or errors, which could cause the app to malfunction.
- User Privacy Concerns: Some users may be concerned about the privacy of their class schedules and personal information, particularly if they are required to provide sensitive information to use the app.
- Monetization Model: The app's creators have leveraged the app's success to monetize the app. While this provides a revenue stream for the creators, it may limit access to the app for some students who are unable to pay for the app or in-app purchases.

The problem this project aims to solve

- The difficulty college students face in keeping track of their schedules and avoiding missing classes. With a packed schedule and numerous classes to attend, it can be easy for students to forget about a class or lose track of time, leading to missed classes and lower grades.
- This problem is compounded by the fast-paced nature of college life, where students are constantly on-the-go and distracted by other activities. This makes it challenging for students to keep track of their schedule and be on time for every class.
- By providing real-time notifications about the current class, a 10-minute reminder before the next class, and classroom details, "TimetableSOS" helps students stay organized and on top of their schedule.
- The app's annoying notifications also provide a guilt-free experience for students who are knowingly skipping class, reminding them of the class they are missing and encouraging them to stay on track.

Importance of the App

- Time Management: "TimetableSOS" helps college students manage their time more effectively and avoid missing important classes. With busy schedules and numerous classes to attend, students can easily forget about a class or lose track of time, leading to missed classes and lower grades.
- Improved Academic Performance: By helping students stay on top of their class schedules, "TimetableSOS" can lead to improved academic performance and better grades.
- Convenient and Personalized: The app offers a convenient and personalized solution for college students, allowing them to adjust notifications and reminders to their specific needs.
- Increased Productivity: By reducing the number of missed classes, "TimetableSOS" can help students stay on track and increase their overall productivity.
- Staying Connected: The app keeps students informed about their class schedules and allows them to stay connected to their academic responsibilities, even when they are not on campus.
- Improved Quality of Life: By helping students stay organized and avoid missing classes, "TimetableSOS" can improve their overall quality of life, reducing stress and allowing them to focus on their academic and personal goals.

Tech Stack used for the App:

- Front-end:
  - React Native or any other cross-platform framework for developing mobile applications.
  - JavaScript, HTML, and CSS for building the user interface and user experience.
- Back-end:
  - Node.js or any other server-side technology for building the app's APIs.
  - Database systems like MongoDB or MySQL to store class schedules and user information.
- Push Notification Services:
  - Firebase Cloud Messaging (FCM) or any other third-party push notification service to deliver real-time notifications to students' mobile devices.
- Cloud Infrastructure:
  - AWS or any other cloud-based infrastructure to host the app and its services.
- Development Tools:
  - Git for version control.
  - GitHub for code collaboration and management.
  - JIRA or any other project management tool for organizing and tracking development tasks.