Department of Computer Science Engineering

SRM IST, Kattankulathur – 603 203

18CSC206J – SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

Experiment No	03
Title of Experiment	System, Functional and Non-Functional Requirements of the Project
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 identify the system, functional and non-functional requirements for the project.

Team Members:

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

Project Title: TimetableSOS

System Requirements:

- Platform: The app can be developed for iOS, Android, or both.
- Hardware: The app can run on smartphones and tablets.
- Operating System: iOS 9 or later, Android 4.4 or later.
- Memory: The app should require a minimum of 512 MB RAM.
- Storage: The app should require a minimum of 50 MB storage.
- Internet Connection: A stable internet connection is required to receive notifications and updates.
- Push notifications: Have the capability to receive push notifications.
- Screen Resolution: The app should support different screen sizes and resolutions, including both portrait and landscape modes.
- Navigation: The app should have an intuitive navigation system that allows students to easily access different features and settings.
- User Account: The app should have the ability to create and manage user accounts, allowing students to store their class schedules and preferences.
- Data Sync: The app should be able to synchronize data between different devices, allowing students to access their class schedules from any device.

Functional Requirements:

- Input Class Timetable: Students should be able to input their class schedules into the app by adding the class name, start and end time, classroom location, and professor's name.
- Real-time Notifications: The app should send real-time notifications about the current class, including its name, start and end time, classroom location, and professor's name.
- 10-minute Reminders: The app should send a notification 10 minutes prior to the start of the next class to help students stay on track.
- Customizable Notifications: Students should be able to adjust the notification settings to their preferences, including the sound, vibration, and visibility of the notifications.
- Missed Class Reminders: Send real-time notifications to help students avoid missing classes.
- On-the-go Access: Students should be able to receive notifications and stay on top of their schedule even when they are away from their desks.
- Campus Navigation: Help students find their way around campus by providing classroom details in the notification.
- User-friendly Interface: Have a user-friendly interface that is simple and easy to use.
- Data Management: Securely store and manage the students' class schedules and preferences.
- Analytics: Provide analytics and statistics about the student's class attendance and schedules.

Non-Functional Requirements:

- Usability: Be user-friendly and easy to navigate, allowing students to quickly input their class schedules and access the app's features.
- Reliability: Be reliable and have minimal downtime, ensuring that students can access their schedules at all times.
- Performance: Should be fast, responsive, and efficient, providing a seamless experience for students.
- Security: Should have robust security measures in place to protect student data and ensure the privacy of their schedules.
- Scalability: Should be able to handle large numbers of students and be scalable for future growth.
- Accessibility: Should be accessible for students with disabilities, including those who are visually impaired or have mobility issues.
- Localization: Should support multiple languages and be able to adjust its interface and notifications based on the student's language preferences.
- Maintainability: Be maintainable, making it easy for developers to add new features and fix bugs.
- User Support: Have a dedicated support team that can assist users with any technical or functional issues.

Result: Thus the requirements were identified and accordingly described.