Software Requirements Specification

for

<ULAB EventPedia>

Version 0.1

Prepared by <Sadia Ahmed Bushra- 201014005, Razaan Reza- 201014045, Apon Ghosh- 202014069 >

<University of Liberal Arts Bangladesh>

<12th February 2024>

Table of Contents

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

Throughout the academic year, the University of Liberal Arts Bangladesh (ULAB) hosts a wide range of events, from departmental seminars and club activities to student affairs campaigns. Unfortunately, there are challenges with event promotion, communication, and registration because of the inefficiencies, cohesiveness, lack of a centralized platform of the present event advertising and registration system. The ULAB EventPedia v0.1 is a mobile application designed to simplify the event management process within the University of Liberal Arts Bangladesh (ULAB).

This SRS document conveys the software requirements for the development of the ULAB EventPedia, which will serve as a centralized platform for event posting, promotion, and registration. The system will support the requirements of several parties engaged in planning and attending university events, such as students, staff, departments, clubs, and student affairs offices.

1.2 Document Conversations

Incorporating Google map location was suggested as feedback. Providing Google map location may help the users locate the exact location of the event taking place and they can easily reach the destination following the map. It would be more helpful for those who are new to the area or do not know much about the area.

1.3 Intended Audience and Reading Suggestions

Our intended audiences are the students, faculties, clubs, the CCO office, and the departments of the University of Liberal Arts Bangladesh (ULAB). The rest of the SRS contains which problem we kept in mind while developing the project, what operating environment the app works on, the features that our app will contain including the functional and non-functional requirements, the design and implementation process, a figma diagram of our app, and the resources used for making this project. The text should be read in order, beginning with the introduction to summarize its aim and scope. Next, interested readers should read the general description for further information on the product and its functions, then look at the external interface requirements to see how it interacts with the environment. For a more in-depth knowledge of the system's capabilities and performance standards, one should go to the sections on system features and non-functional requirements. Finally, to check any extra needs and consult the appendices for further resources. This method guarantees a complete knowledge of the document's content.

1.4   Product Scope

The ULAB EventPedia is a mobile application software. It is drafted to reduce the advertising challenges and registration complexities of the events arranged within the University of Liberal Arts Bangladesh (ULAB).

There are several issues with the University of Liberal Arts Bangladesh's (ULAB) present event management system, most of which are caused by dispersed communication channels and decentralized procedures. Event information is distributed over a fragmented range of channels, such as Facebook pages and email, which causes disparities and makes it harder to find relevant information. Because there is a lack of centralization, teachers and students need to use several channels, missing important event updates or being overloaded with information. Additionally, a large portion of event registration procedures rely on manual techniques like email submissions and Google Forms, which introduces inefficiencies and inconsistent data. The entire user experience is compromised by these manual procedures, which not only take up administrative time but also raise the possibility of mistakes and data loss.

This SRS document conveys the software requirements for the development of the ULAB EventPedia, in which the admin can promote events by posting on our app and interested students can register for their desired events. The system will be a lot of help for the parties engaged in organizing and attending university events. EventPedia's in-app alert capabilities promote excellent communication between event organizers and attendees, guaranteeing timely transmission of information and changes. This mobile application lets users view event information and register for events at any time and location. The attendees can register in online registration forms for event registration, simplifying the registration procedure. Apart from that, viewing the location of the event venue from Google Maps will significantly make any event more accessible.

By developing the ULAB EventPedia, these issues will be resolved and events information, promotion, and registration will be centralized.

1.5   References

Azmi, P. A. A. S. U., & Ibrahim, N. (2021). UTHM Students' Event Management System. *Applied Information Technology And Computer Science*, *2*(2), 697-716.
https://publisher.uthm.edu.my/periodicals/index.php/aitcs/article/view/2586

2.   Overall Description

2.1   Product Perspective

The ULAB EventPedia described in this SRS is a new, self-contained solution designed to answer the issues that the University of Liberal Arts Bangladesh (ULAB) faces while administering and promoting its events. It is not a substitute for existing technologies, but rather an independent solution aimed to improve event management operations and keep a logbook of the upcoming and recent events including the list of students that have registered for an event at the institution. With the help of our app, the number of students engaging in different co-curricular events at the university will significantly increase. This application is specifically designed for the students, teachers, and management parties of the University of Liberal Arts Bangladesh.

2.2   Product Functions

The software has two primary groups of functions for administrators and users. The admin panel can create, edit, or remove event details, specify event locations, and look at the list of registered students. The student platform allows users to view event details, register for events, change their profile information, view a list of previously and currently attended events, and make online payments.
Admin Side:
  ● Add, update, or delete event details
  ● Set event location via Google Maps
  ● View registered list of attendees
Student Side:
  ● View event details and register for events
  ● Edit user profile
  ● View list of previous events attended
  ● Make online payments

2.3   User Classes and Characteristics

The various user classes that we anticipate will use the product are given below:
  1. Students/Faculty: The students will be frequent users as the maximum events organized in the university will be intended for students. Apart from the students, the faculties will also be able to use the app. The students or faculties can view event lists and register for any event with the additional feature of paying for any registration through the app. They will also be able to view the event location in Google Maps.
  2. Admin: SAO and CCO will be the admins of the app EventPedia and will therefore be able to post and manage event details along with viewing a list of registered students. The admins will also be able to set the event location in Google Maps. In addition, the admins of each department can also be admins.

2.4   Operating Environment

The ULAB EventPedia software will work in a mobile environment, particularly for Android devices. The program will work with a variety of Android operating system versions, from earlier ones like Android 5.0 to more recent ones like Android 12. Considering that most university students own smartphones, a mobile app offers a convenient way to publish, promote, and register events while on the go, keeping users informed and involved. Furthermore, a mobile app centralizes event-related activities and lessens dependency on different channels by streamlining coordination and communication efforts. The user-friendly design of the mobile app and its interaction with already-existing technologies, such as Google Maps, improve productivity and user experience, resulting in a more lively and cohesive campus community. Additionally, a mobile app helps ULAB achieve its strategic goals of using technology to improve student engagement and operational effectiveness while projecting the university as a cutting-edge, contemporary organization.

Android Studio will be the primary development tool for the Android version. We have chosen Android Studio because it is simpler to create Android apps using Android Studio. It is the primary tool used by developers to make Android applications. We can develop code, identify and repair issues, and test our app before publishing it with Android Studio. It also integrates effectively with many features and libraries required to create Android apps. We can use either Kotlin or Java on Android Studio. Additionally, Android Studio includes a feature that allows us to test our app across various Android phones and tablets, ensuring that it functions properly on all of them. All in all, Android Studio simplifies the process for developers to produce excellent Android apps.

2.5   Assumptions and Dependencies

Assumptions:
The readiness of stakeholders to accept and make use of the ULAB EventPedia for event administration. The availability of internet connectivity while using the application.

The mobile application is specifically designed for the students, teachers, and staff of the University of Liberal Arts Bangladesh. Users from outside the organization are not allowed to use the application. Therefore, there must be a validation procedure, while creating an account, where the people intended to create an account on the app have to validate themselves as a ULAB student, faculty or staff member. Only after this validation, an account can be created. Furthermore, for users to explore events, register, and get real-time information on the ULAB EventPedia, reliable internet connectivity is essential to its functioning and usefulness. Any interruptions to internet access might make it harder to use and enjoy the program.

<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project, unless they are already documented elsewhere (for example, in the vision and scope document or the project plan).>
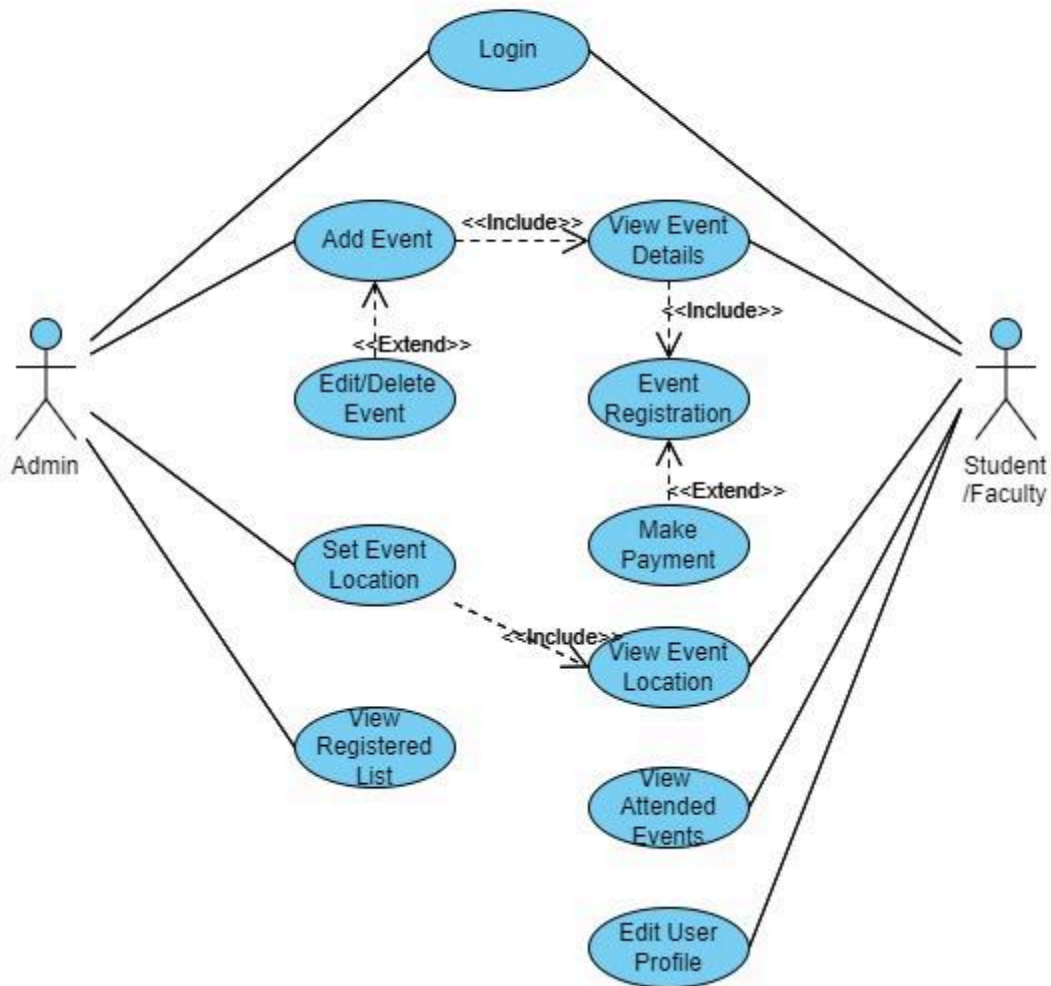
Appendix B: Analysis Models

Fig: Use-case diagram