



Gyalpozhing College of Information Technology
Royal University of Bhutan



ITW202 Mobile Application

Assignment II

Section: **B**

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1. Introduction

1. Purpose

The main purpose of this document (SRS) is to get the complete requirements for the first version and vision of the application, Event Attendance. The SRS document contains the following items:

- Product Description: Purpose, Goals scope.
- Requirements: functional and non-functional requirements.
- System features.

2. Scope

- User scope: This system focuses on all people that join any event with the use QR code. The system involved web based system to generate the QR code and android application to scan QR code by the user.
- System scope:
 - (a) 1. User(Participants)
 - (b) Able to scan the QR code.
 - (c) Able to fill in the profile form.
 - (d) Able to delete their profile
 - (e) Able to update their profile
 - (f) 2. Admin(event handler)
 - (g) Able to log in as administrator.
 - (h) Able to manage an event.
 - (i) Able to manage participant.
 - (j) Able to update the event status/information.
 - (k) Able to view the QR code.
 - (l) Able to download their QR code.
 - (m) Able to generate report.

2. Requirements

1. Functional requirements

- Sign up or Login

User can login with their Email as their User ID and password. They will have to give their email while signing up it will be stored in database. The systems will cross-check and if it is right, your registration will be verified. After gaining access, the user can scan the QR code provided and edit their profile.

- Scan OR

If the user wants to scan QR code, the user can click on scan button to use camera and this will also be the default page the user can view after registering.

2. Non-functional requirements

- Safety requirements

- Security requirements

- Usability requirements

3. Software Requirements

- Java jdk 8 and above (version)

While developing this application, we will be using java language using the java development kit version 8 and above.

- Android Studio (version 4.1)

Android studio will mainly be used for building of applications on different types of android devices as it provides fast development of applications to the developers.

- Firebase (version 19.2.1)

While developing this application, i will be using the this database to store the data.

3. Hardware Requirements

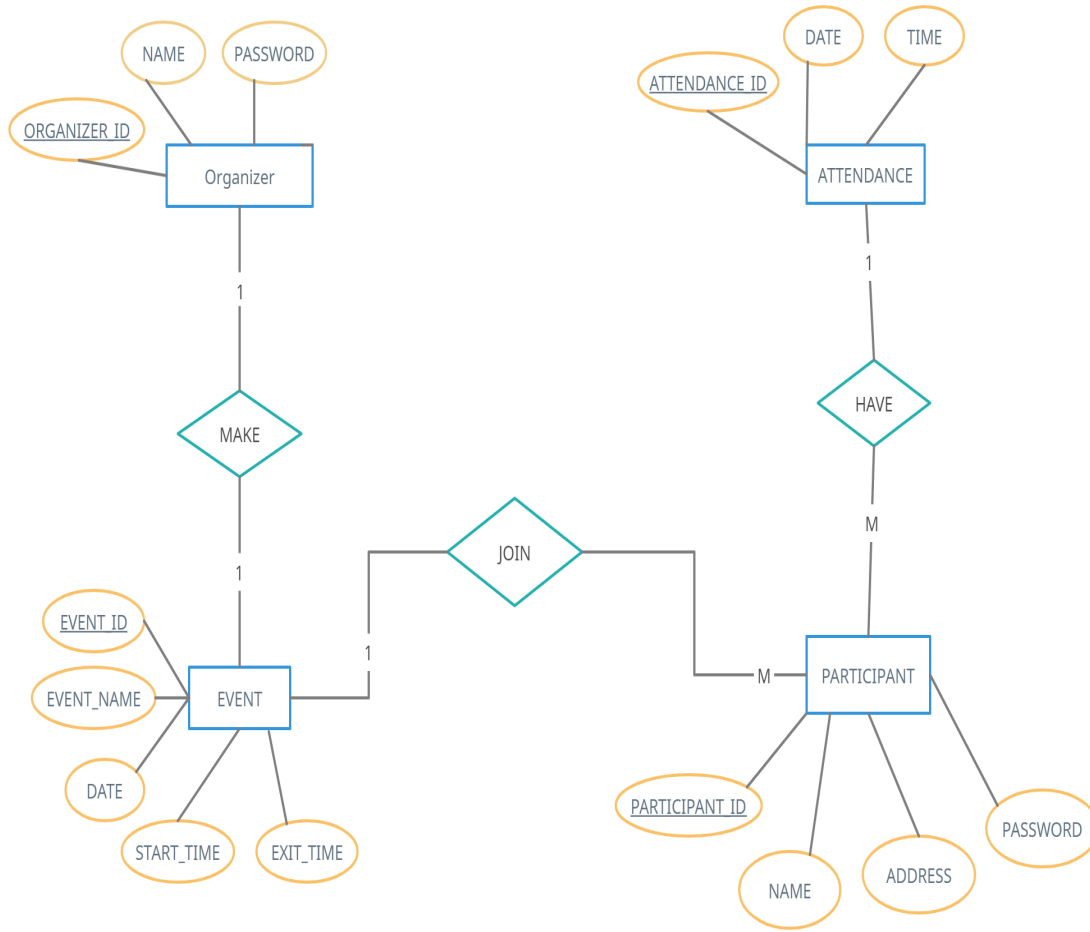
Laptops

To be able to develop a mobile application, a laptop of minimum 4 gb RAM is required to operate Android Studio but even then the laptop takes a toll on it, for the software to run smoothly 8 Gb RAM is required.

If the laptop is of 4gb RAM, we need an android phone (version 4 and above) to test our application in every phase as running the emulator in the laptop may slow down our laptop.

4. System designs

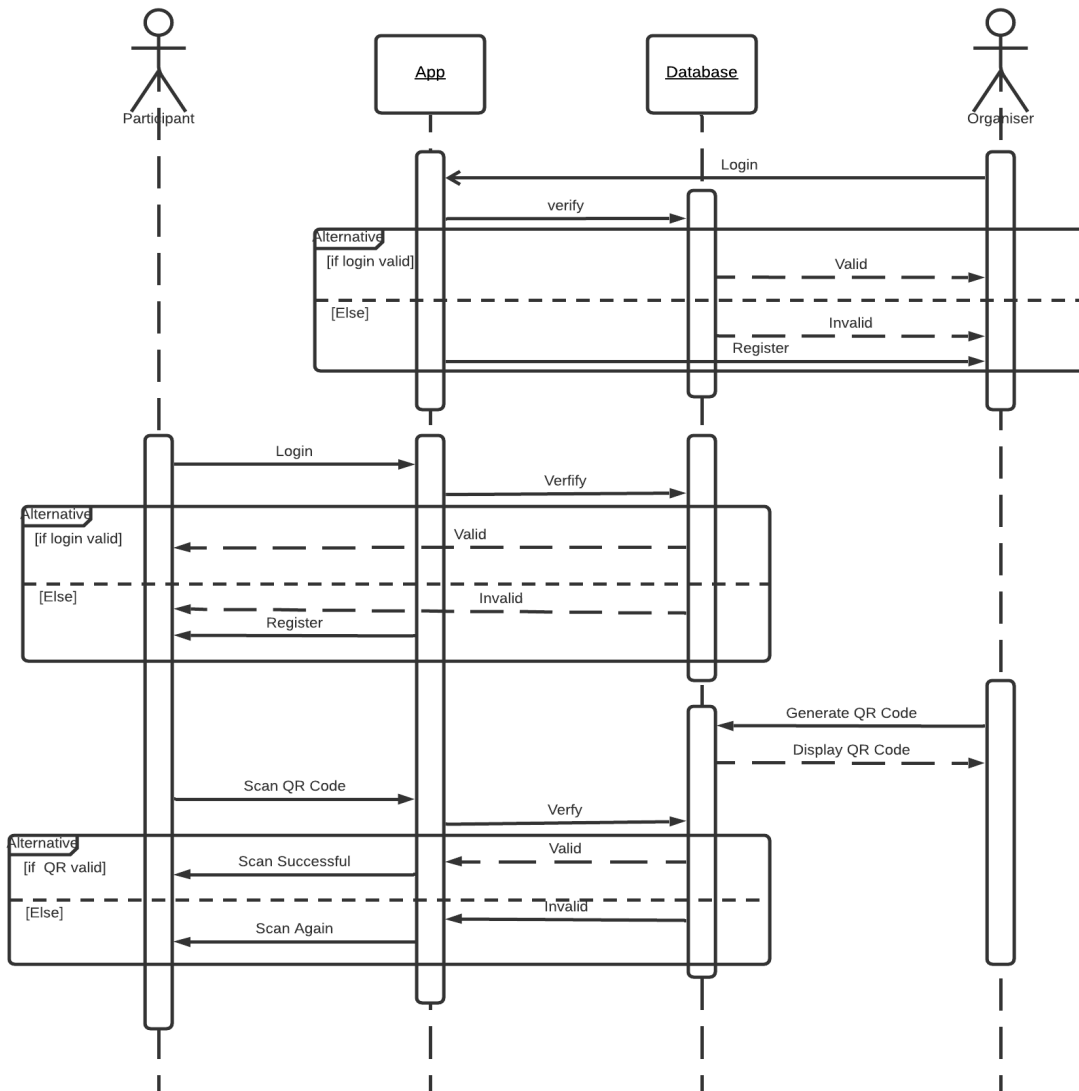
1. ERD(Entity Relationship Diagram)



2. Relational Schema



3. Sequence Diagram



4. Use case Diagram

