



**Gyalpozhing College of Information Technology**  
*Royal University of Bhutan*



## ITW202 Mobile Application

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# Assignment II

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Section: **B**

Name: Tenzin Kelzang  
Enrollment Number: 12190088  
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Module Tutor: Sonam Wangmo

# 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, Khathun. The SRS document contains the following items:

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

## 2. Scope

- User scope: Gyalpozhing College of Information Technology, Gyalpozhing, Mongar.  
The user scope of our project is limited within Gyalpozhing College, Mongar since it is going to be used for chanting prayers that the students usually chant in the college.
- System scope:
  - (a) View :- Users can view the prayers stored and some basic knowledge about offerings made to the altar.
  - (b) Category selection:- Users will be allowed to select the particular prayer to chant.

## 2. Requirements

### 1. Functional requirements

- View :- Users can view the prayers stored and some basic knowledge about offerings made to the altar.
- Category selection:- Users will be allowed to select the particular prayer to chant.

### 2. Non-functional requirements

- Safety 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.
- Sqlite  
While developing this application, we will be using the Sqlite database to store our data.

### 3. Hardware Requirements

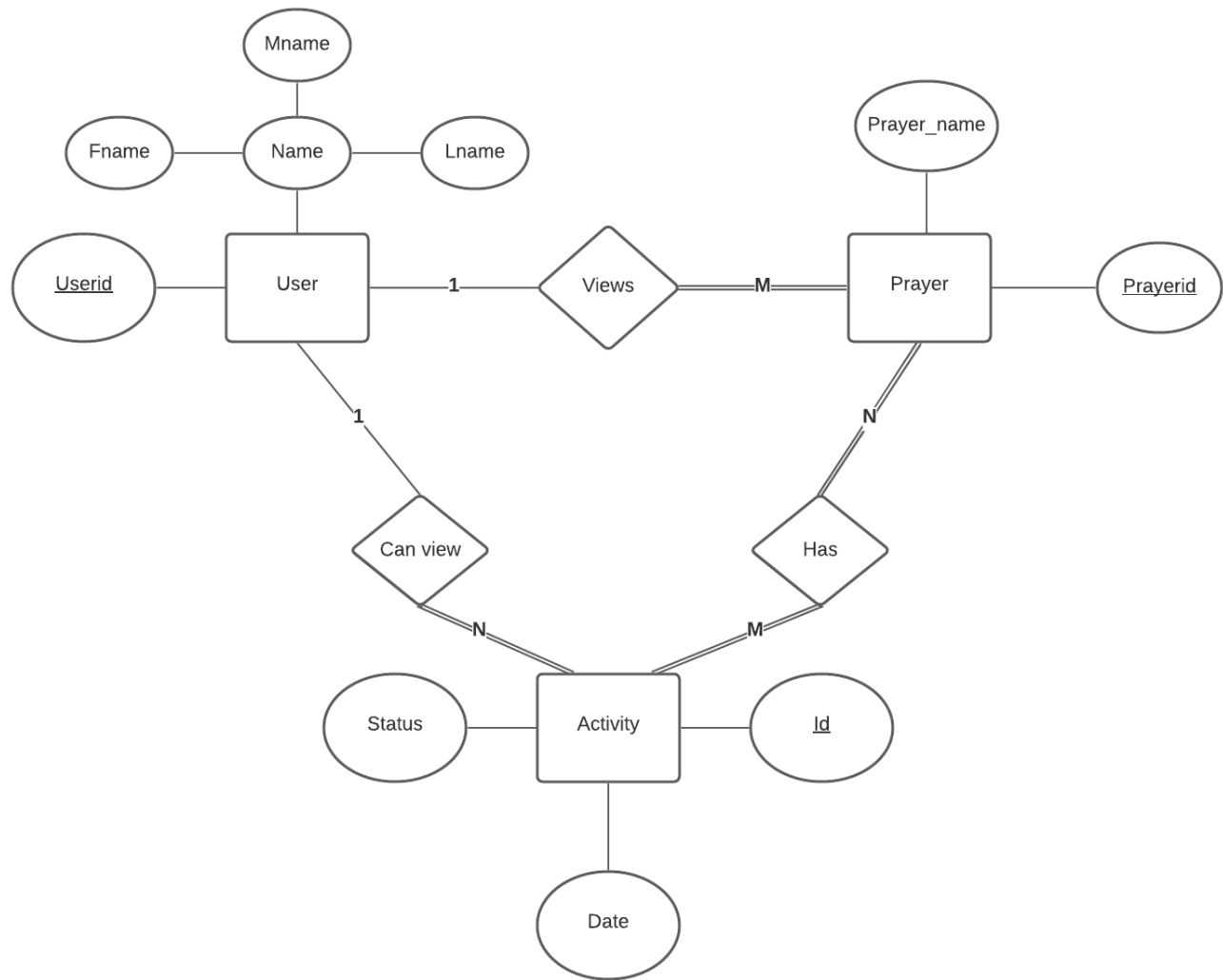
#### Laptops

To be able to develop a mobile application, a laptop of minimum of 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 4 GB 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)



-User can view prayers.

-User can view their own daily activities. The activity entity stores the status of the user. For example, if a user completes their prayer, it will be marked as done for the day.

-Every time a prayer gets completed, it gets updated in the activity entity.

## 2. Relational Schema

### USER

Fname	Mname	Lname	<u>Userid</u>
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### PRAYER

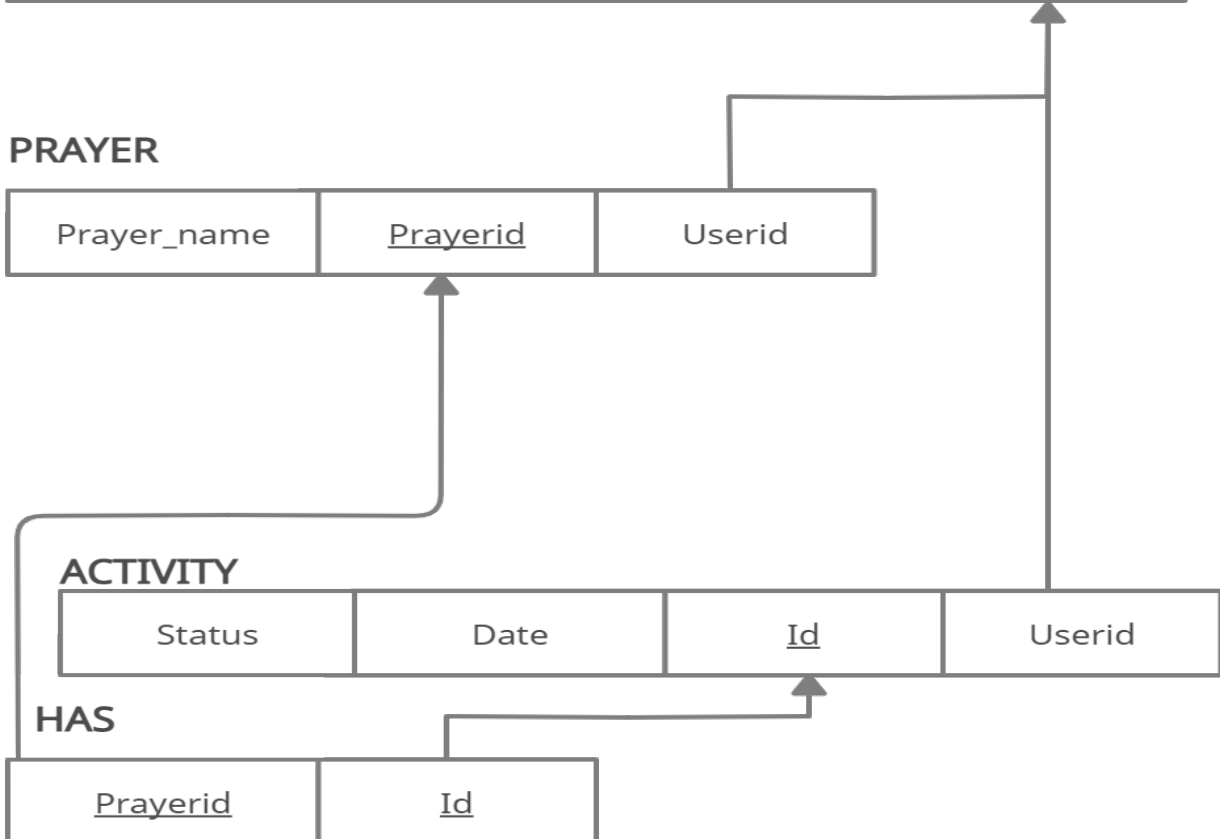
Prayer_name	<u>Prayerid</u>	Userid
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### ACTIVITY

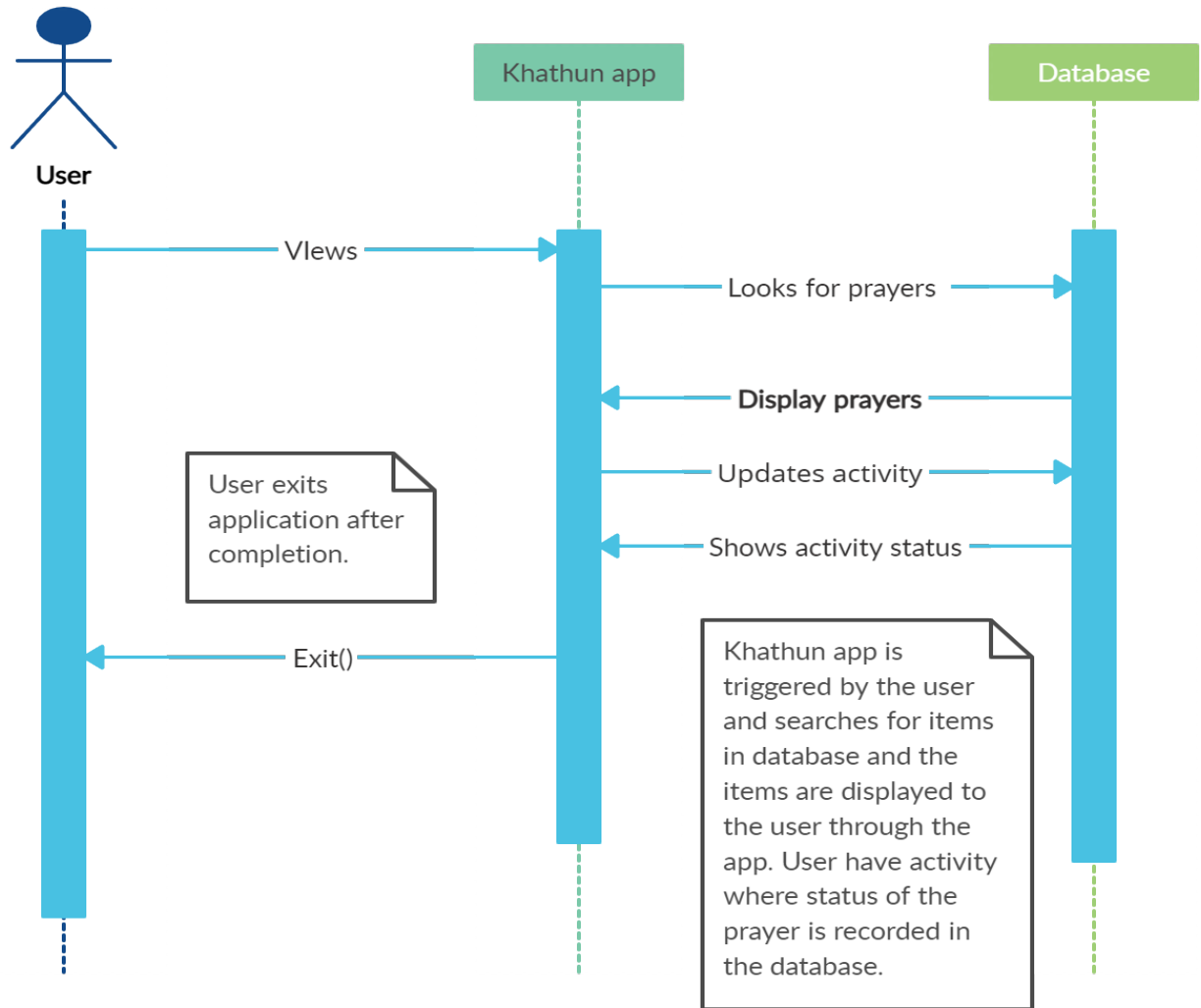
Status	Date	<u>Id</u>	Userid
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### HAS

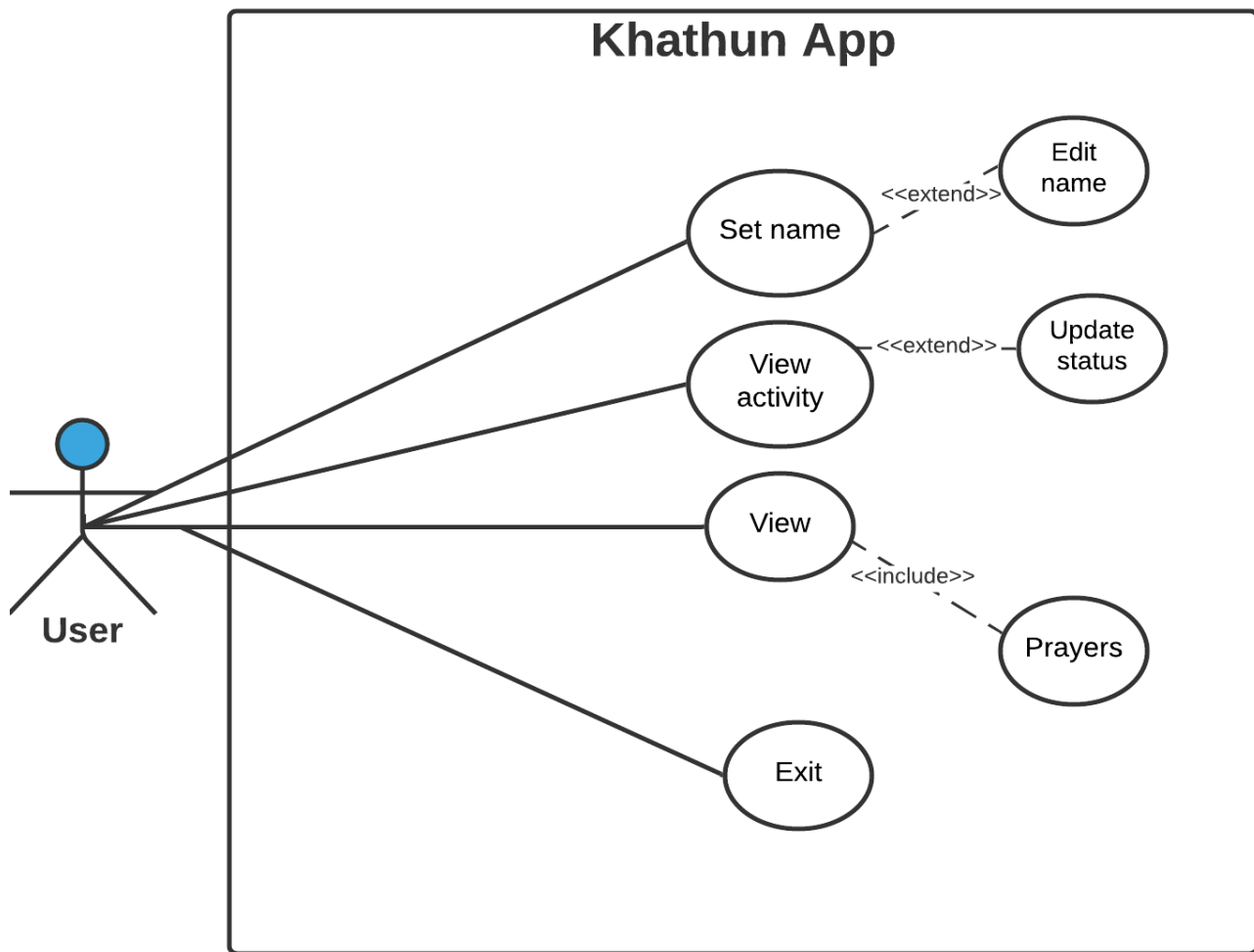
<u>Prayerid</u>	<u>Id</u>
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### 3. Sequence Diagram



#### 4. Use case Diagram



These are the basic functions of Khathun app.

- Users can set or update their own names.
- Users can view their own daily activities as well as update it.
- Users can view prayers.
- Users can exit the application.