ITW202 Mobile Application

Assignment-II

Section: A

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Introduction

1. Purpose

   (a) The main purpose of developing this app is that to make easy for teachers those who wants to know details of other teachers who were teaching the same class.

   (b) To view timetable without carrying hard copies in hand.

   (c) To bring modern technology.

2. Scope

   (a) System Scope

      i. Admin
         A. Register Admin
         B. Login
         C. Create account
         D. Teacher Details
         E. Delete Account(If necessary)
         F. Timetable

      ii. Teacher
         A. Login
         B. Teacher Details
         C. Timetable

   (b) User Scope

      i. Scope of our project is Gyalpozhing Higher Secondary School.

Requirements

1. Functional Requirements

   (a) Two users

      i. Admin
         Can create account by himself. But it is limited to one from particular school. After account has been successfully created. Admin can login with username and password. After login can view two features.
         A. Teacher Details
         B. Timetable
            Admin will perform CRUD operation. Example like admin can create account of new teacher register in the school and also save all the details of the teachers. Admin can even delete the account if the teachers go transfer.Admin has to update the timetable for teachers and individual classes and sections.

   ii. Teacher

     Can access to these two features

     A. Teacher Details

     B. Timetable

      Teacher can view the Timetable and Teacher details. No CRUD operation is allowed for teachers.

2. Non-Functional Requirements

   (a) Usability

   (b) Reliability

   (c) Security

3. Software Requirements

Software	Specification
Java version	Java Standard Edition Development Kit(JDK) 8
Operating System	Microsoft Windows 10(64-bits) and Lunix
Android SDK	Android Studio SDK version 16
Database	MYSQL

Hardware Requirements

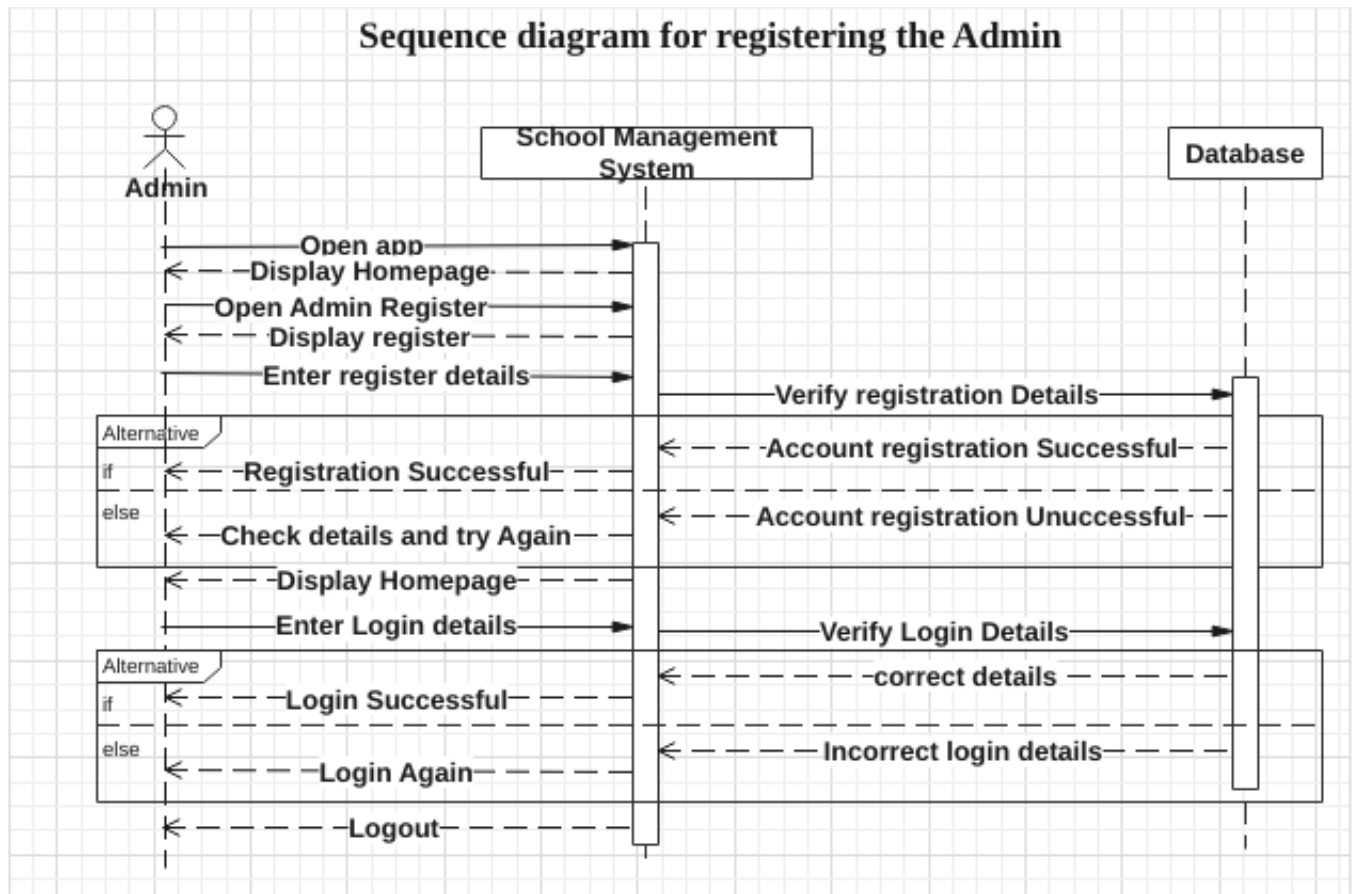| Hardware	Specification
Disk Space	800MB- 2GB
Screen Resolution	1280x800
RAM	4-8GB RAM

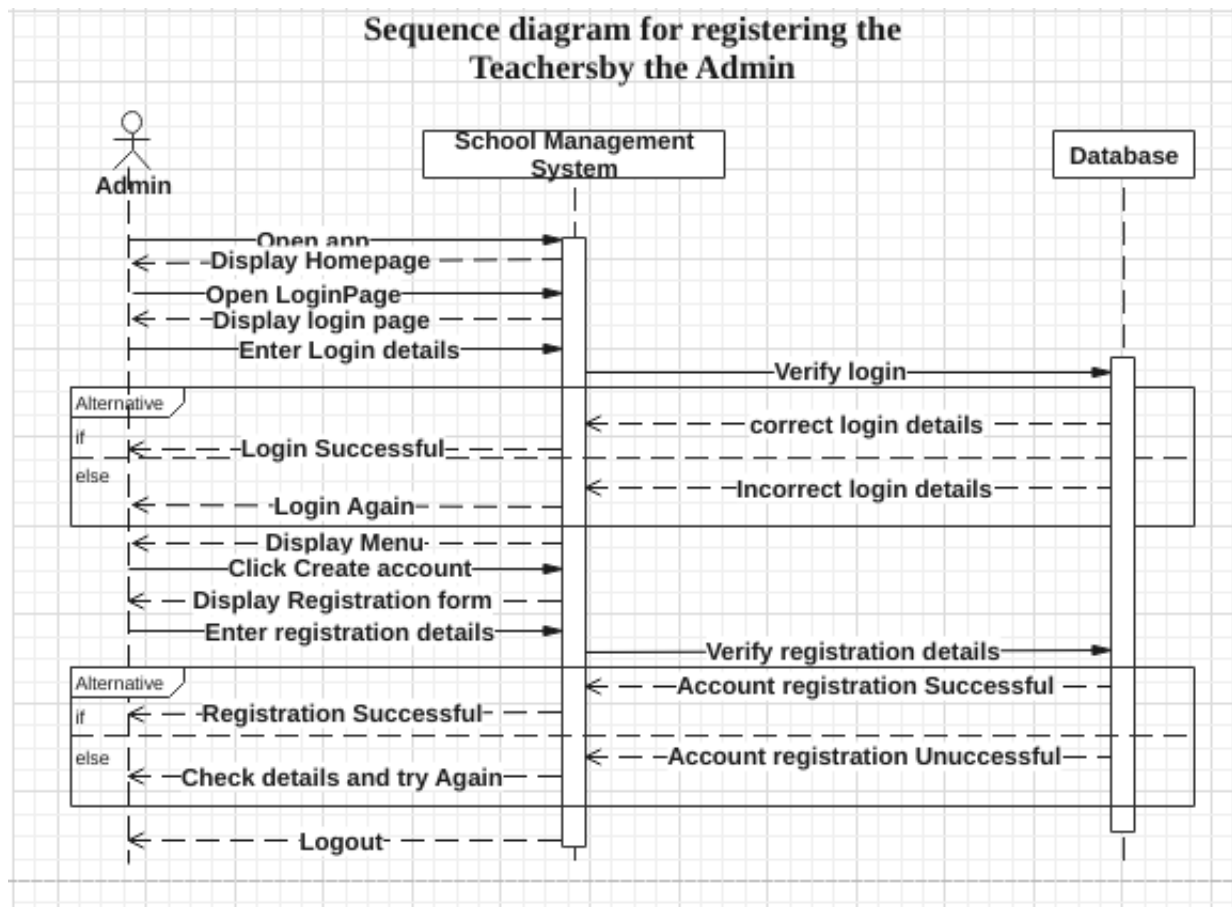# System Design

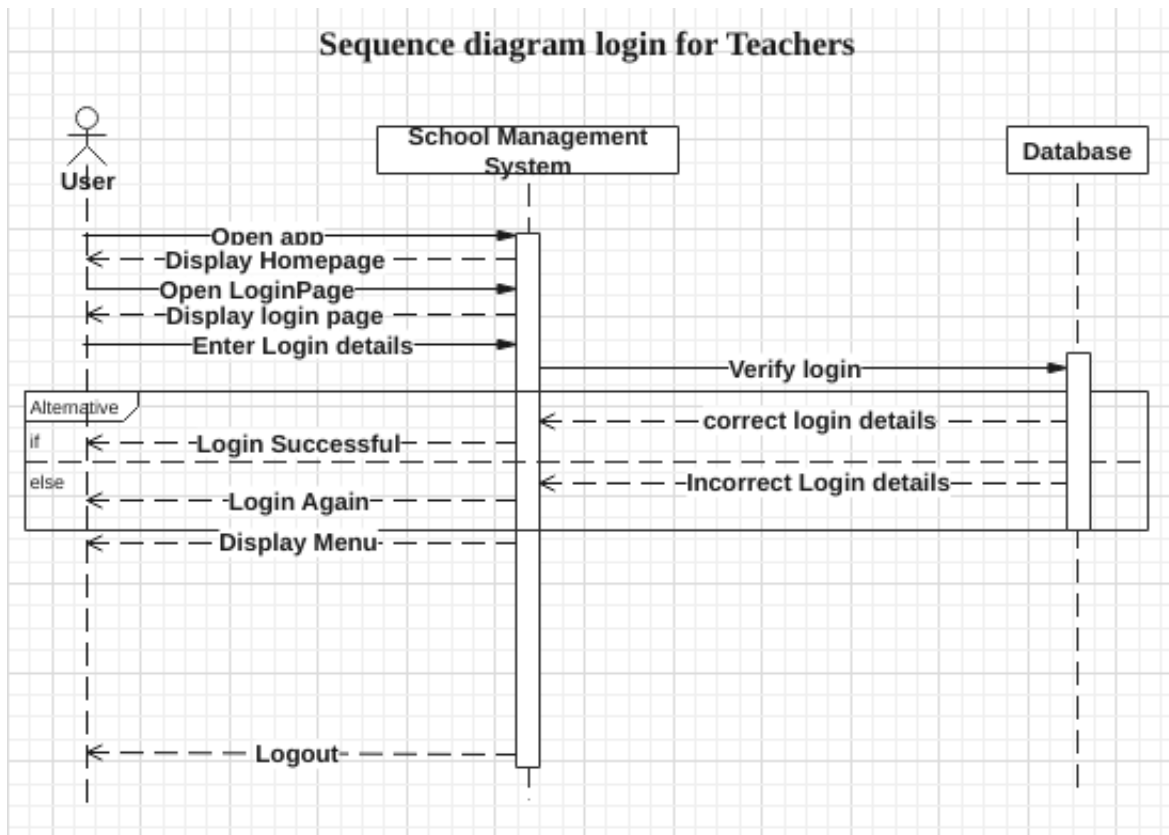**A. Sequence Diagram**

Figure 1.0

Figure 1.1

Figure 1.2

Sequence diagram after the login for Teacher.(Viewing option only)

For Teacher Details
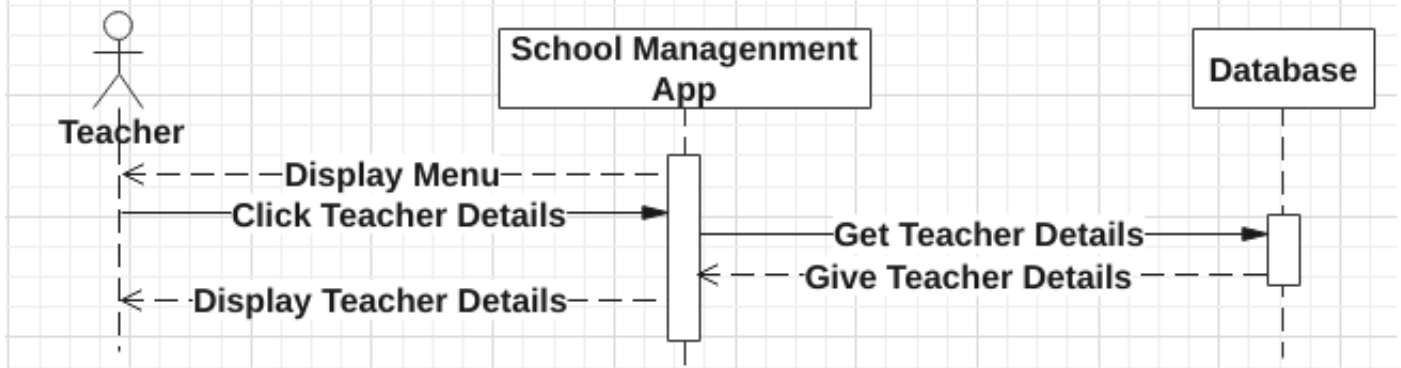

Figure 1.3

Sequence diagram after the login for Teacher. (Viewing option only)

For Timetable

Figure 1.4

Sequence diagram after the login for Admin.(Viewing and Editing option)

For Teacher Details

Admin — School Managenment App — Database

- Display Menu
- Click Teacher Details
- Get Teacher Details

Alternative
- If: Display Notification — Teacher Details Found
- Else: No Teacher Details to display — No Teacher Details

- Enter Teacher Details
- Add Teacher Details

Alternative
- If: Teacher Details Successfully Added — Adding Teacher Details Successful
- Else: Teacher Details addition failed. Try again — Adding Teacher Details unsuccessful

- Display Teacher Details
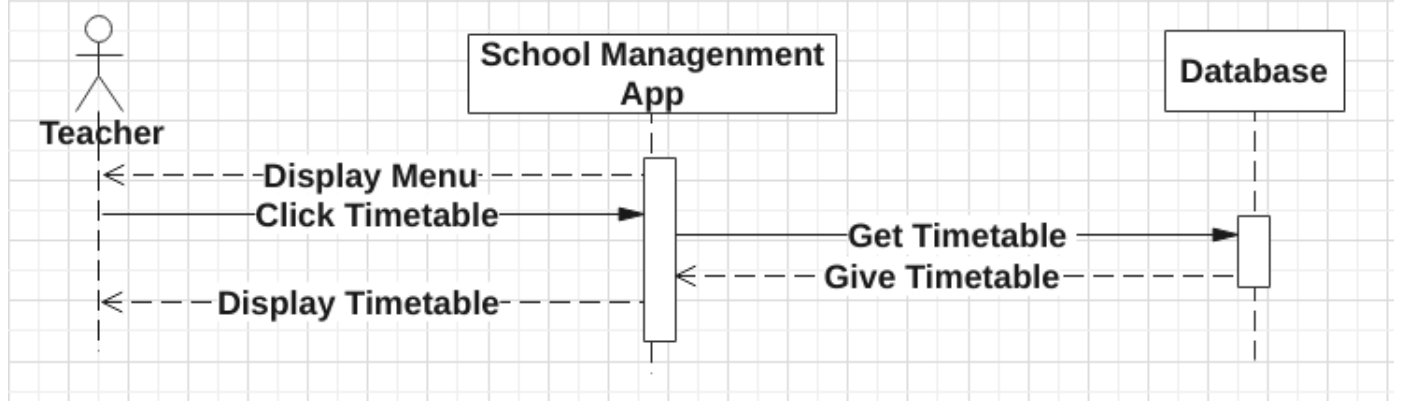
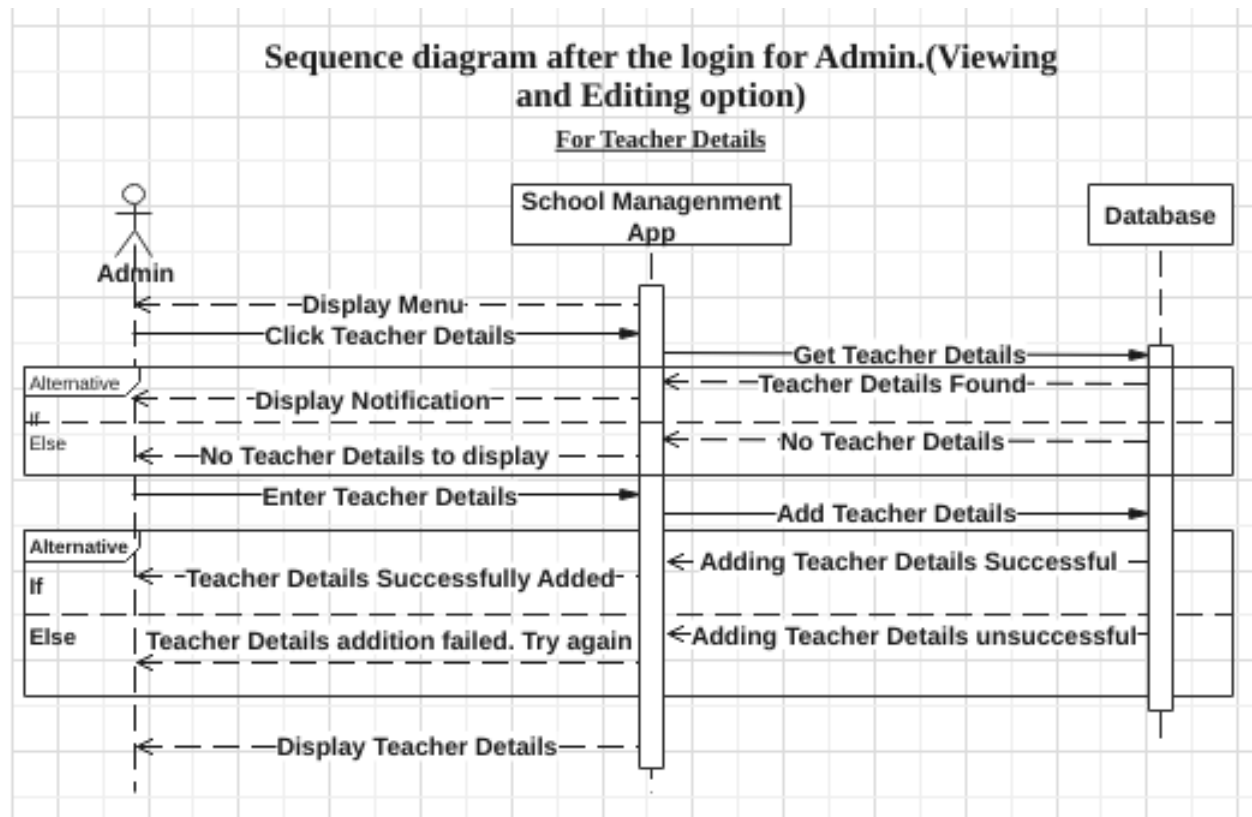Figure 1.5

Sequence diagram after the login for Admin.(Viewing
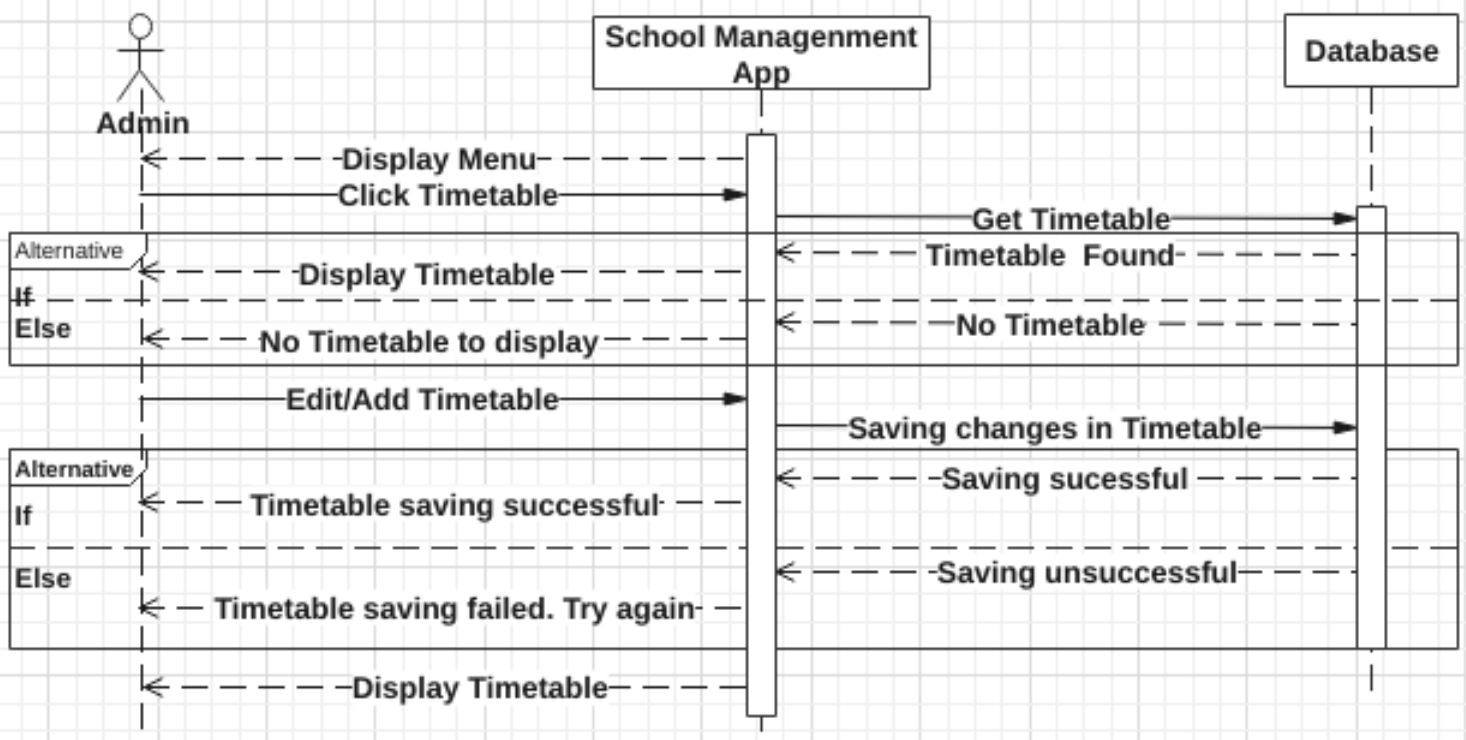and Editing option)

For Timetable

Figure 1.6

B. Use case Diagram

Figure 1.7
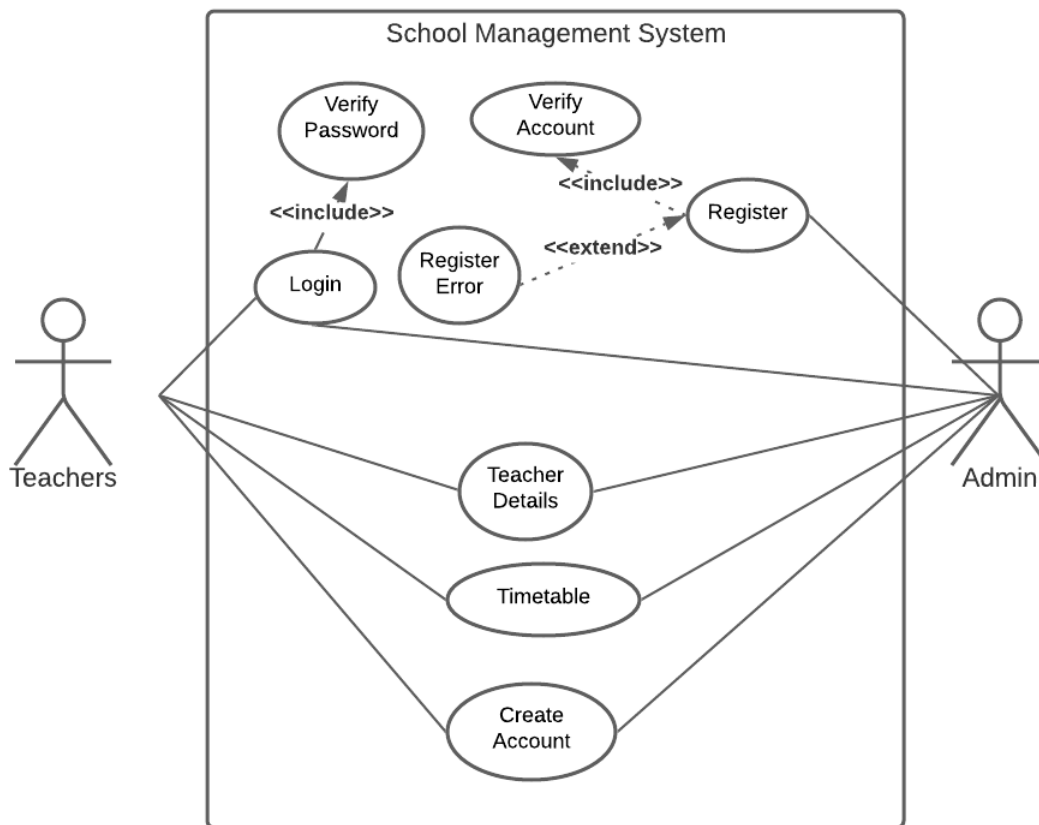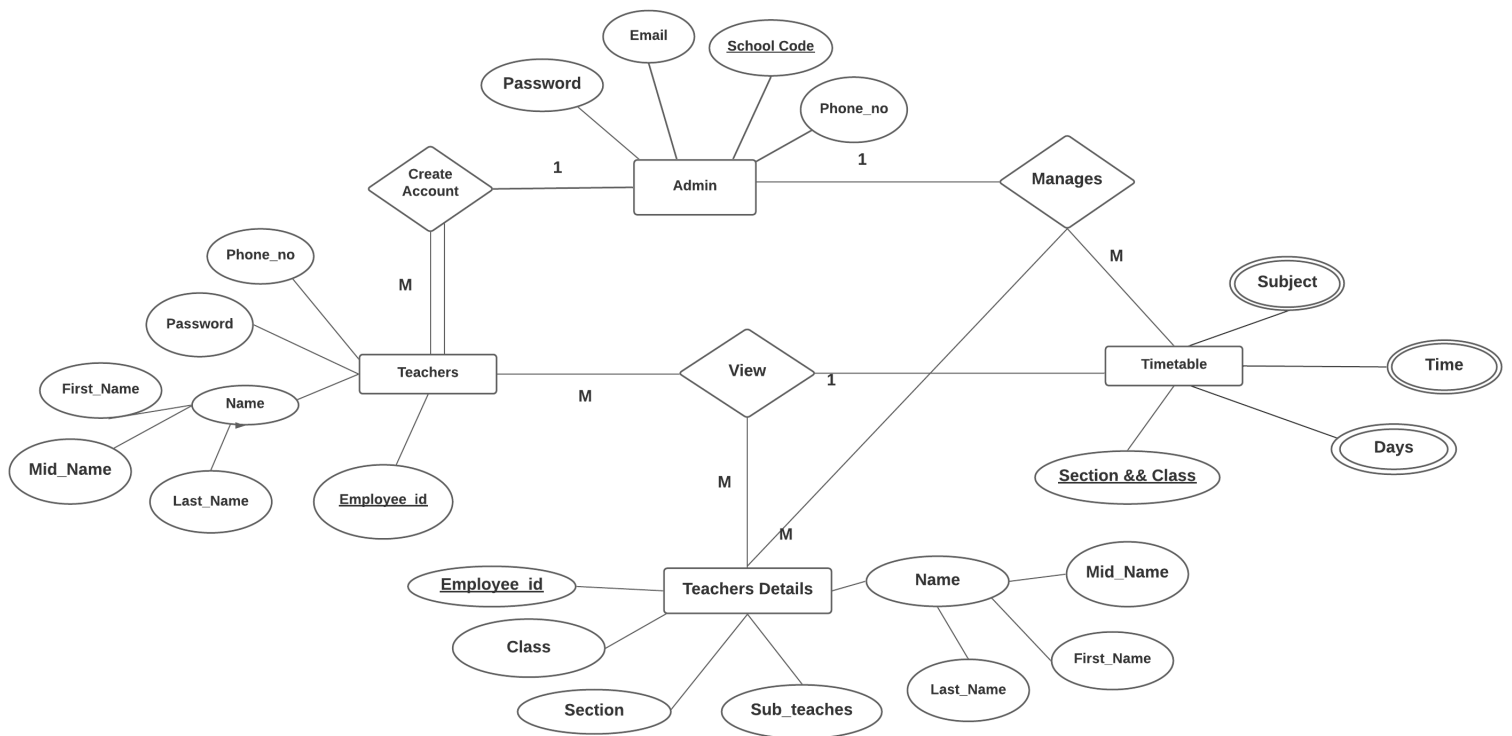
C. ER Diagram

Figure 1.8

D. Relational Schema Diagram

Admin

School_Code	Email	Phone_no	Password

Teachers

Employee_id	First_Name	Mid_Name	Last_Name	Phone_no	Password	School_Code

Teacher Details

Employee_id	First_Name	Mid_Name	Last_Name	Class	Section	Sub_teaches	School_Code

Timetable

Section && Class	School_Code

Subjects

Section && Class	Subject_Name

Period_Time

Section && Class	Time

Days

Section && Class	Day

Figure 1.9

THANK YOU