

## **CHAPTER-1**

### **INTRODUCTION & OBJECTIVE OF PROJECT**

1.1 Introduction of system

1.2 Scope of a system

1.3 Objective of project

1.4 Project overview

## **1.1 INTRODUCTION OF SYSTEM**

This is an android application based on Charutar Vidhya Mandal management. It includes CVM admin login and college admin login. It shows details of faculties and students. It includes list of college and last year cut-off based on courses which can be helpful to students. URL link's of all colleges included in this application. It also shows event held by different colleges. It provides news of colleges as per date and time. It also provides the list of scholarships and its details and student can also apply for the scholarship. If user enter their marks and select the course in particular college then accordingly it shows the college list if they are eligible based on last year cut-off . It provides available seats for student which can be very helpful. This application provides Management Quota Online admission process and payment gateway. It shows placement information.

## **1.2 SCOPE OF A SYSTEM**

To easily search the last year cut-off, details of college, placement details, scholarship and also to reach to a goal of online admission process of management quota with payment facilities.

## **1.3 OBJECTIVE OF PROJECT**

The main objective of this project is to computerized the system and reduce manpower and time consumption.

It provides the following features:

- Maintain information of different colleges and faculty
- Easy and user-friendly interface to the user of the system
- Helpful to a student's in many different ways such as management quota online process, last year cut-off based on colleges and information of colleges like placement, scholarship, events, and details.
- Reduce paper work and increase work efficiency.
- A system which basically keep all records of project.

## **1.4 PROJECT OVERVIEW**

- Each module intended to perform some specific task that provides management facilities.
- The following are the modules of admin management system:
  - Login
  - Cut-off
  - Student details
  - Faculties details
  - Events
  - News as per date
  - Scholarship
  - Management quota online admission process
  - Payment gateway
  - Placement information

- **LOGIN:**

- This application provides login of CVM admin and college admin. It will have two admin panel. CVM admin have rights to add colleges, intercollege events etc. College admin have rights to add about their college information such as faculty, student's details, cut-off etc.

- **CUT-OFF:**

- This application provides a module in which students can enter their marks and select the course then it shows the college list if they are eligible based on last year cut-off.

- **EVENTS AND NEWS:**

- This application shows information of events held in college and intercollege events and also provides news as per key dates such as management online process key date, exam dates etc.

- **SCHOLARSHIP:**

- This application provides information of scholarship and criteria for it. Also, different types of scholarship and link will be provided.

▪ **MANAGEMENT QUOTA ONLINE ADMISSION PROCESS:**

- This application includes management quota online process in which students can fill the form choose the courses based on which mock round and final round will be provided of admission seat.

▪ **PAYMENT GATEWAY:**

- This application also provides online payment gateway for management form so students have no need to go for a bank.

▪ **PLACEMENT INFORMATION:**

- This application provides information of placement of different college. It shows how many students selected and in which company etc.

## **CHAPTER-2**

### **TOOL, PLATFORMS AND LANGUAGES**

2.1 Hardware requirements

2.2 Software requirements

2.3 Detail description of technology

## **2.1 HARDWARE REQUIREMENTS:**

- Processor Pentium –V or higher
- Processor Speed: 2.3 GHz
- Hard disk space: more than 100 GB
- Ram Memory: Up to 32 GB

## **2.2 SOFTWARE REQUIREMENT:**

- Operating System Windows
- Android Studio
- Database Server MySQL

## **2.3 DETAILS DESCRIPTION OF TECHNOLOGY:**

- Android is a mobile operating system developed by Google. It is based on a modified version of the Linux kernel and other open source software and is designed primarily for touchscreen mobile devices such as smartphones and tablets. Variants of Android are also used on game consoles, digital cameras, PCs and other electronics.

## **CHAPTER-3**

### **COMPLETE PROJECT STRUCTURE**

3.1 E-r diagram

3.2 Data flow diagram

3.3 Use-case diagram

3.4 Process flow diagram

3.5 Sequence diagram

3.6 Data dictionary

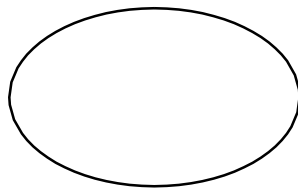
### 3.1 E-R DIAGRAM:

ER-Diagram created to represent these entities, attributes and relationship graphically are called entity relationship diagram. An ER model is typically implemented as a database. In the case of a relational database, which store data in tables, every row of each table represents one instance of an entity.

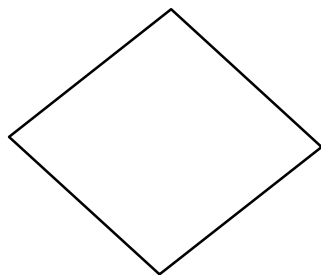
- SYMBOLS



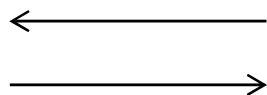
ENTITY



ATTRIBUTE

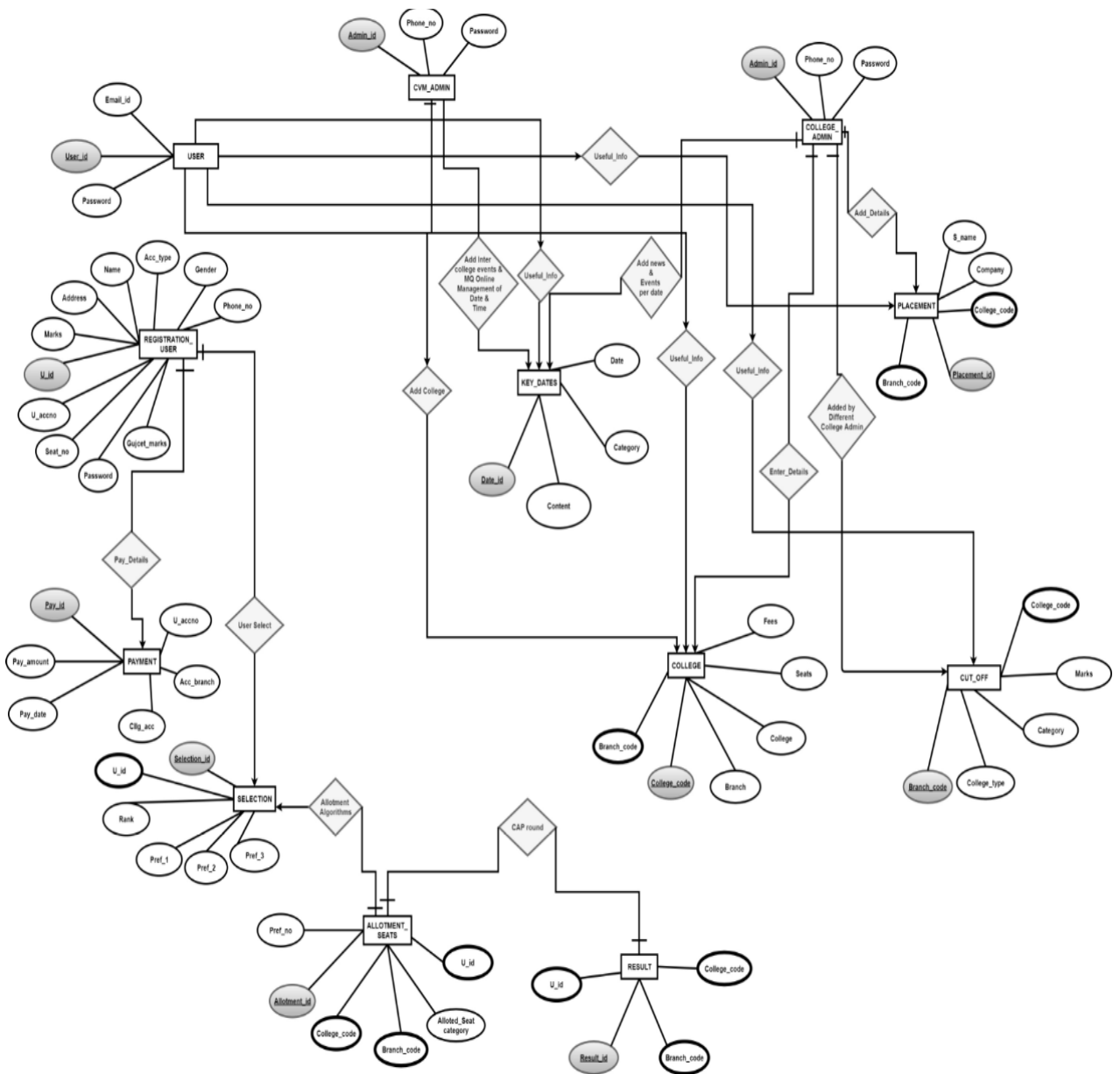


RELATIONSHIP SET



LINE

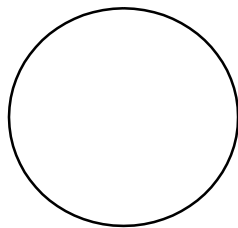


**E R DIAGRAM:**

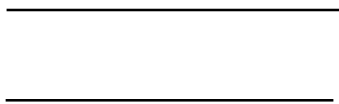
### 3.2 DATA FLOW DIAGRAM:

A Data Flow Diagram (DFD) is a graphical representation of the “flow” of data through an information system, modeling its process aspects. A DFD is often used as a preliminary step to create an overview of the system without going into detail, which can later be elaborated.

- SYMBOLS



FUNCTION



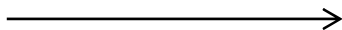
FILE/DATABASE

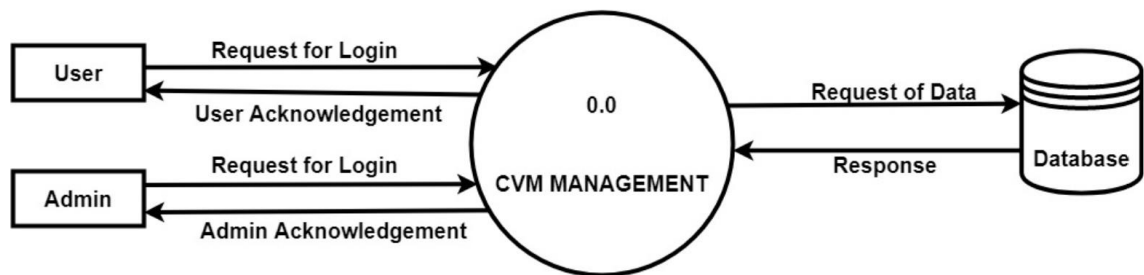


INPUT/OUTPUT

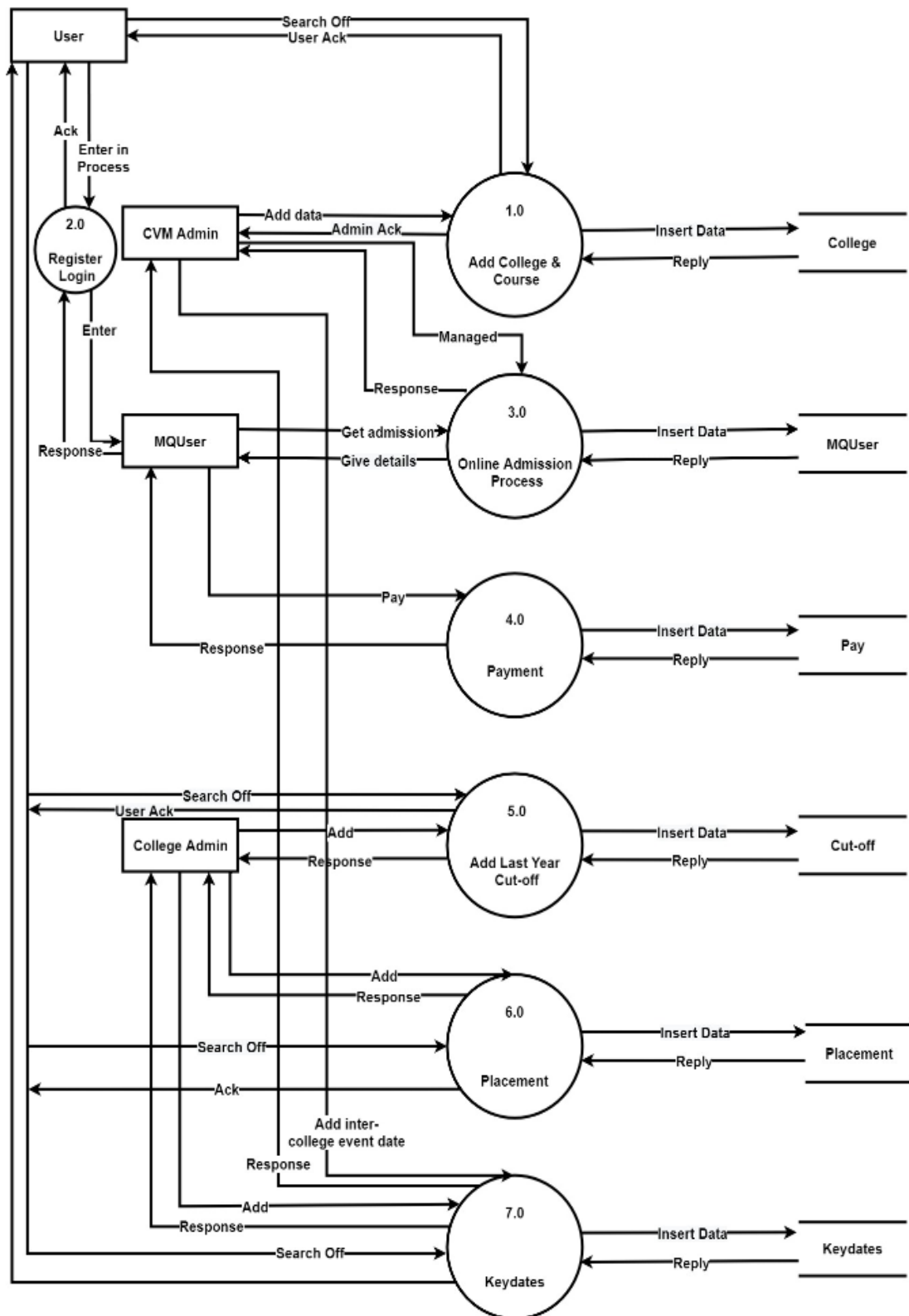


FLOW

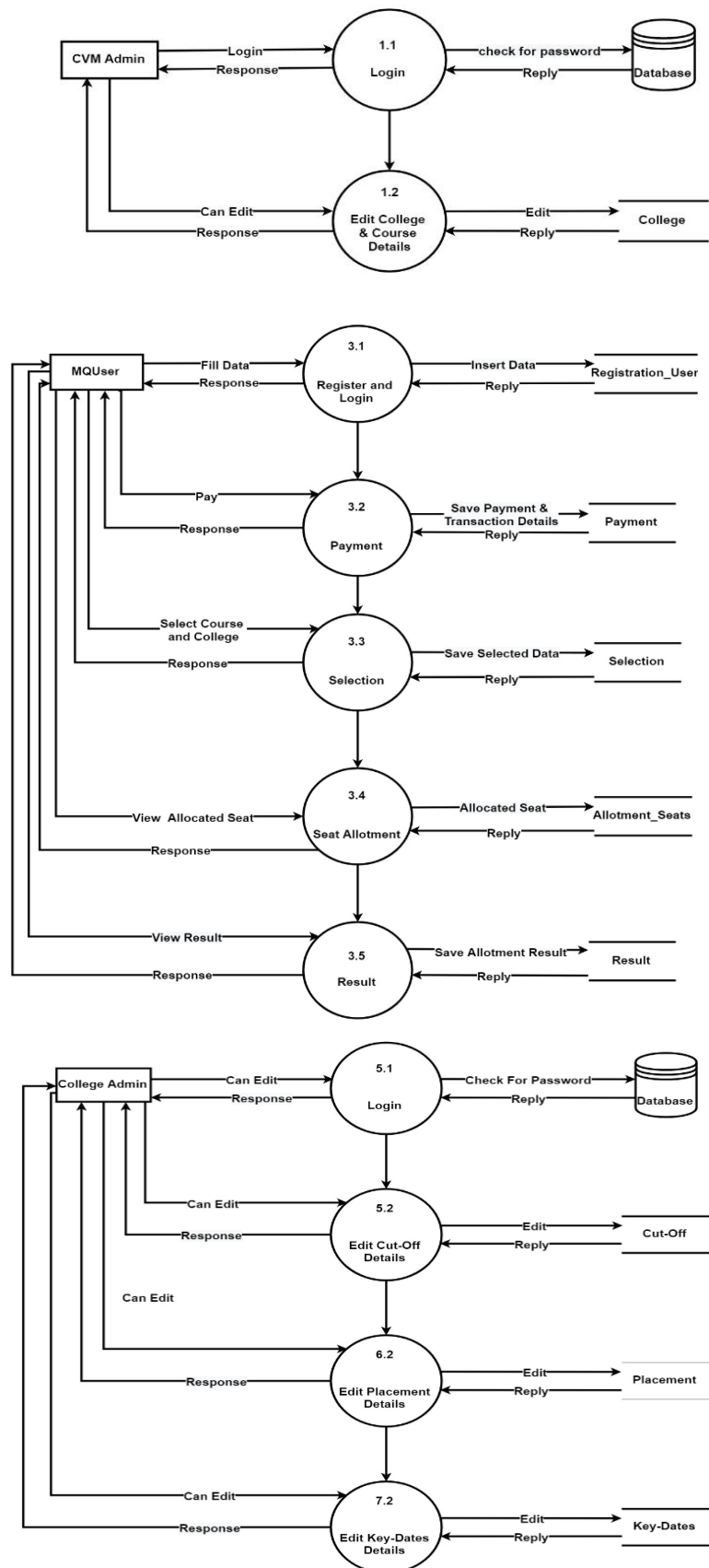


**LEVEL 0 DIAGRAM**

## LEVEL 1



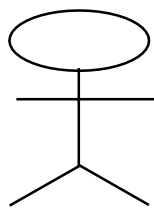
## LEVEL 2



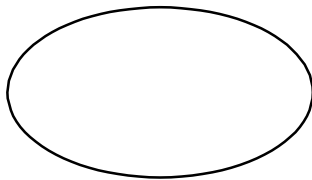
### 3.3 USE-CASE DIAGRAM

- Use case diagram are usually referred to as behavior diagram used to describe a set of action (use cases) that some system or system (subjects should or can perform in collaboration with one or more external users of the system actors).

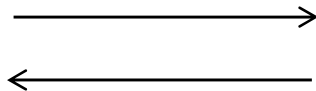
- SYMBOLS



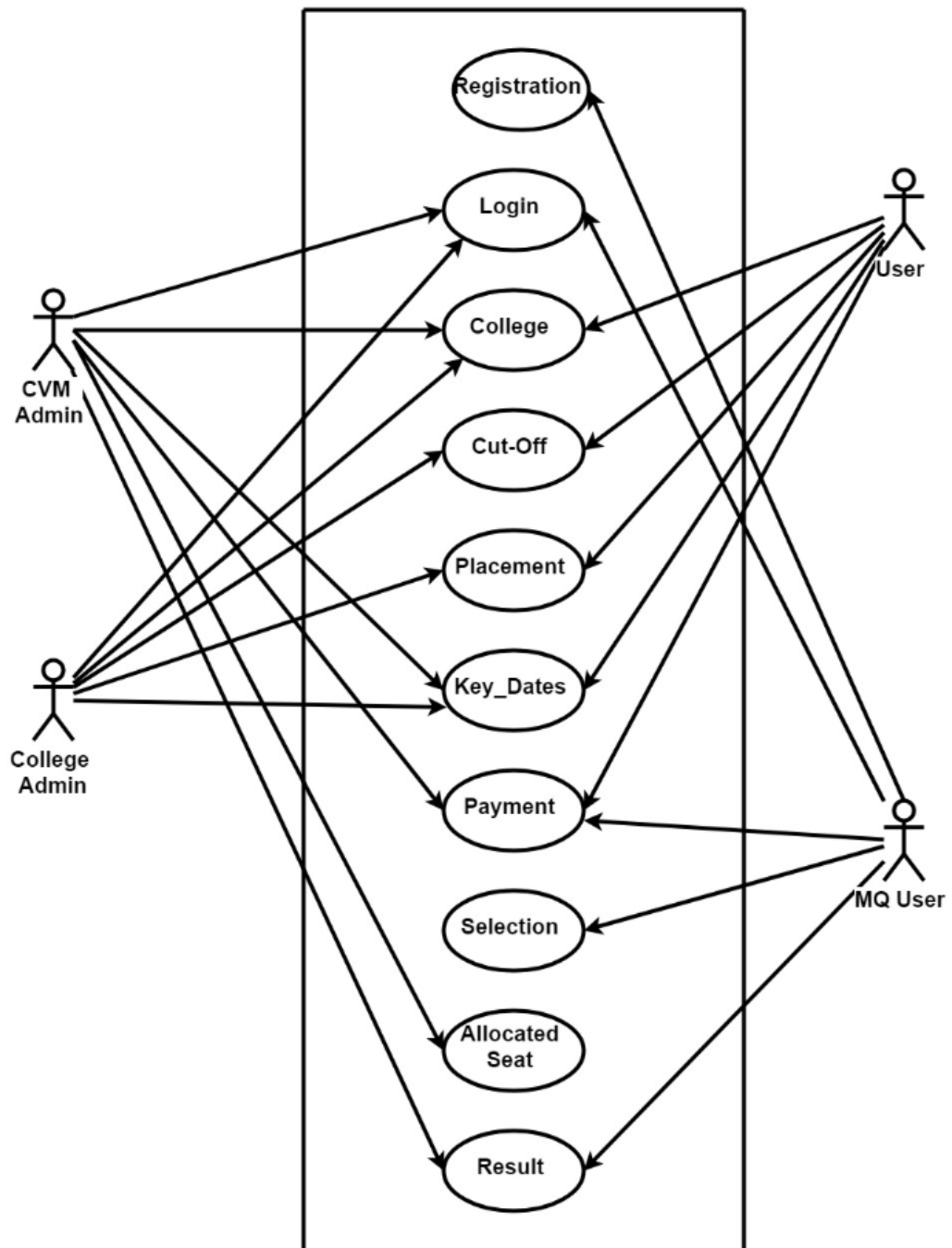
ACTOR



USE CASE



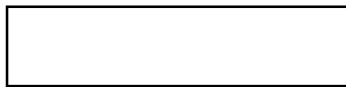
RELATIONSHIP

**USE-CASE DIAGRAM**

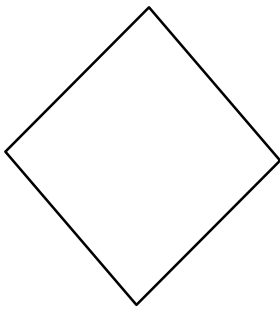
### 3.4 PROCESS FLOW DIAGRAM

Process flow diagram is the diagram which is used to represent the process of whole system. Diagram represents the flow of input and output in system.

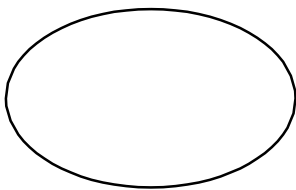
- **SYMBOLS**



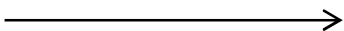
PROCESS



DECISION



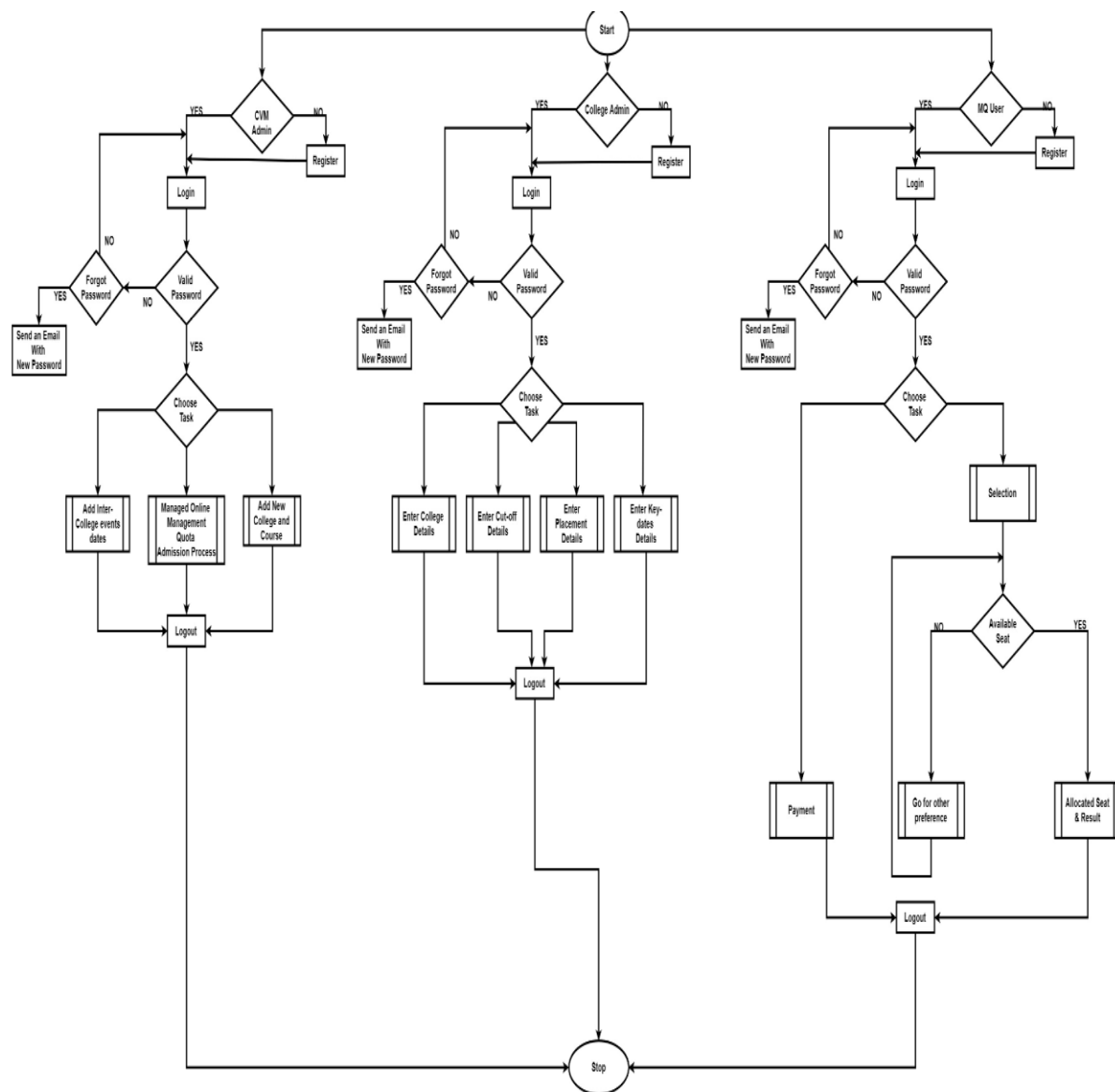
START POINT / END POINT



DIRECTION

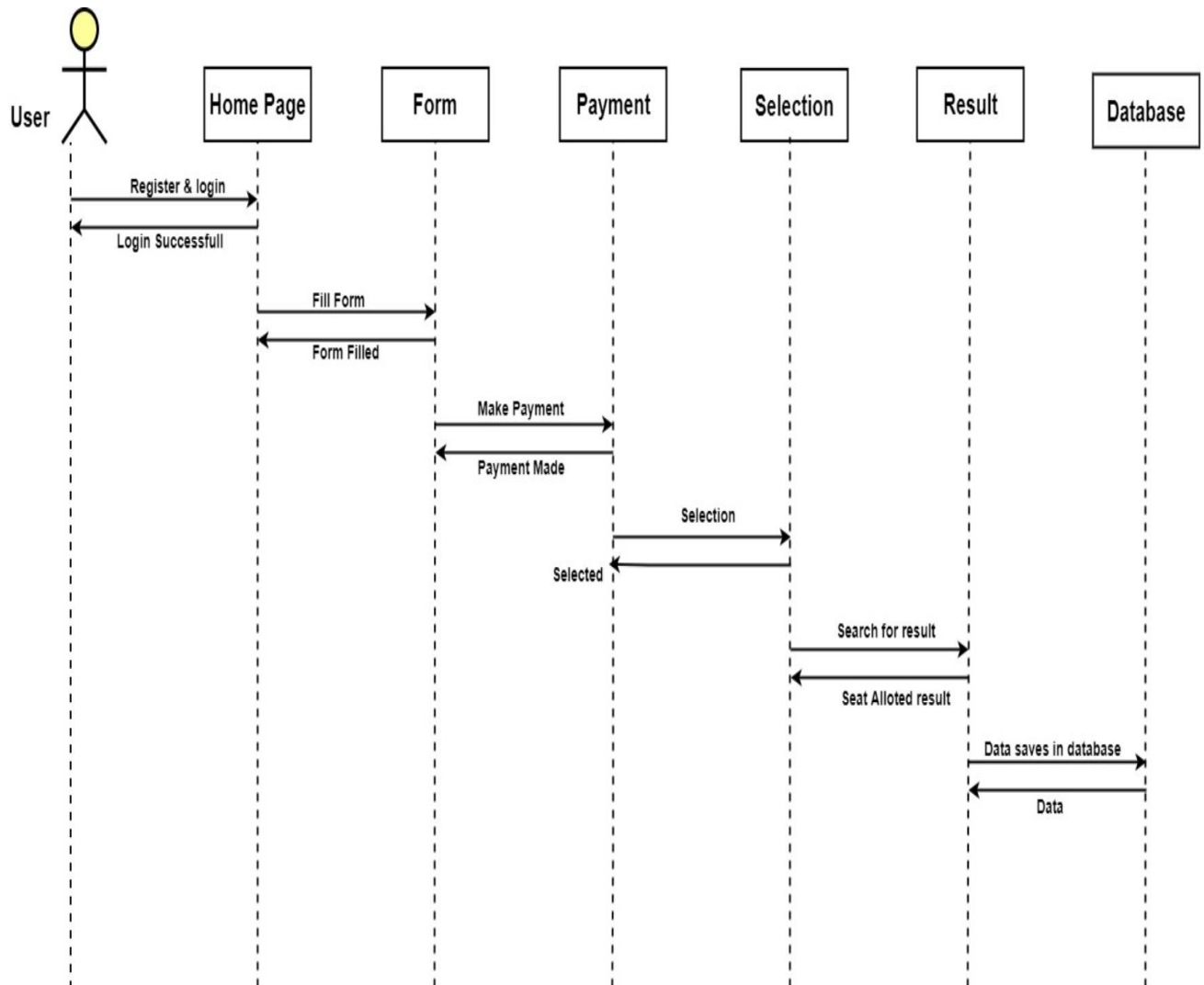


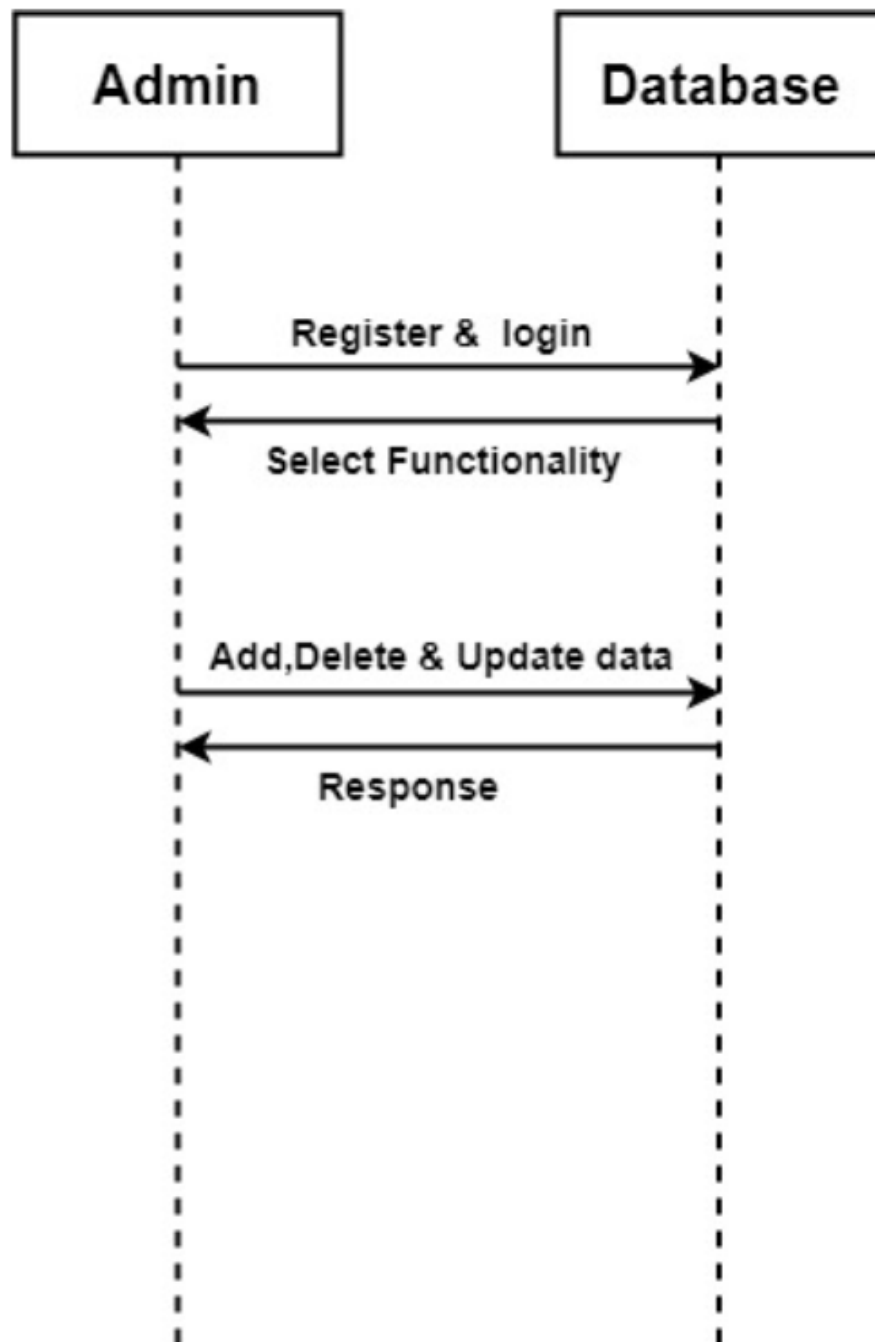
## PROCESS FLOW DIAGRAM



### 3.5 SEQUENCE DIAGRAM

- **Class:-**Class role describe the way object will because in content the symbol illustrate class roll but not list object attribute.
- **Activation:-**Activation boxes represents the time and object need to complete the task. When an object is busy executing process, or waiting for a replied message use a thin rectangle place vertically on its timeline. Message are arrows that represents communications between objects.

**SEQUENCE DIAGRAM FOR USER**

**SEQUENCE DIAGRAM FOR ADMIN**

### 3.6 DATA DICTIONARY

The second major component of the structured analysis model of the system is the data dictionary. The data dictionary contains formal definitions of all the data items shown in the data-flow diagrams.

A data dictionary is a file or a set of files that contains a database's metadata. The data dictionary contains records about other objects in the database, such as data ownership, data relationships to other objects, and other data.

#### 1. Name:- USER

**Primary Key:- User\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	User_id	Varchar	20	Primary Key
2.	Email_id	Varchar	30	-
3.	Password	Varchar	20	-

#### 2. Name:- CVM\_ADMIN

**Primary Key:- Admin\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Admin_id	Varchar	20	Primary Key
2.	Phone_no	Big Integer	15	-
3.	Password	Varchar	20	-

**3. Name:- COLLEGE\_ADMIN****Primary Key:- Admin\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Admin_id	Varchar	20	Primary Key
2.	Phone_no	Big Integer	15	-
3.	Password	Varchar	20	-

**4. Name:- REGISTRATION\_USER****Primary Key:- U\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	U_id	Varchar	20	Primary Key
2.	Name	Varchar	30	-
3.	Gender	Varchar	8	-
4.	Address	Varchar	50	-
5.	Phone_no	Big Integer	15	-
6.	Seat_no	Varchar	20	-
7.	Marks	Integer	5	-
8.	Gujcet_marks	Integer	5	-
9.	U_accno	Big Integer	20	-
10.	Acc_type	Varchar	10	-
11.	Password	Varchar	20	-

**5. Name:- KEY\_DATES****Primary Key:- Date\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Date_id	Varchar	20	Primary Key
2.	Date	Date	-	-
3.	Category	Varchar	20	-
4.	Content	Varchar	50	-

**6. Name:- PLACEMENT****Primary Key:- Placement\_id****Foreign Key:- College\_code , Branch\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Placement_id	Varchar	20	Primary Key
2.	College_code	Varchar	20	Foreign Key
3.	Branch_code	Varchar	20	Foreign Key
4.	S_name	Varchar	20	-
5.	Company	Varchar	20	-

**7. Name:- COLLEGE****Primary Key:- College\_code****Foreign Key:- Branch\_code**

Sr. no	Field Name	Field Type	Size	Constraints
1.	College_code	Varchar	20	Primary Key
2.	College	Varchar	40	-
3.	Branch_code	Varchar	20	Foreign Key
4.	Branch	Varchar	40	-
5.	Seats	Integer	5	-
6.	Fees	Integer	7	-

**8. Name:- CUT-OFF****Primary Key:- Branch\_code****Foreign Key:- College\_code**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Branch_code	Varchar	20	Primary Key
2.	College_code	Varchar	20	Foreign Key
3.	College_type	Varchar	10	-
4.	Category	Varchar	10	-



## CVM Management

5.	Marks	Integer	5	-
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### 9. Name:- PAYMENT

**Primary Key:- Pay\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Pay_id	Varchar	20	Primary Key
2.	Pay_amount	Integer	5	-
3.	Pay_date	Date	-	-
4.	U_accno	Big Integer	20	-
5.	Cllg_acc	Big Integer	20	-
6.	Acc_branch	Varchar	30	-

### 10.Name:- SELECTION

**Primary Key:- Selection\_id**

**Foreign Key:- U\_id**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Selection_id	Varchar	20	Primary Key
2.	U_id	Varchar	20	Foreign Key
3.	Rank	Integer	5	-
4.	Pref_1	Varchar	40	-
5.	Pref_2	Varchar	40	-
6.	Pref_3	Varchar	40	-

**11.Name:- ALLOTMENT\_SEATS****Primary Key:- Allotment\_id****Foreign Key:- U\_id , College\_code , Branch\_code**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Allotment_id	Varchar	20	Primary Key
2.	U_id	Varchar	20	Foreign Key
3.	College_code	Integer	20	Foreign Key
4.	Branch_code	Varchar	20	Foreign Key
5.	Pref_no	Varchar	40	-
6.	Alloted_seatcategory	Varchar	30	-

**12.Name:- RESULT****Primary Key:- Result\_id****Foreign Key:- U\_id , Branch\_code , College\_code**

Sr. no	Field Name	Field Type	Size	Constraints
1.	Result_id	Varchar	20	Primary Key
2.	U_id	Varchar	20	Foreign Key
3.	Branch_code	Vrchar	20	Foreign Key
4.	College_code	Varchar	20	Foreign Key

## **CHAPTER 4**

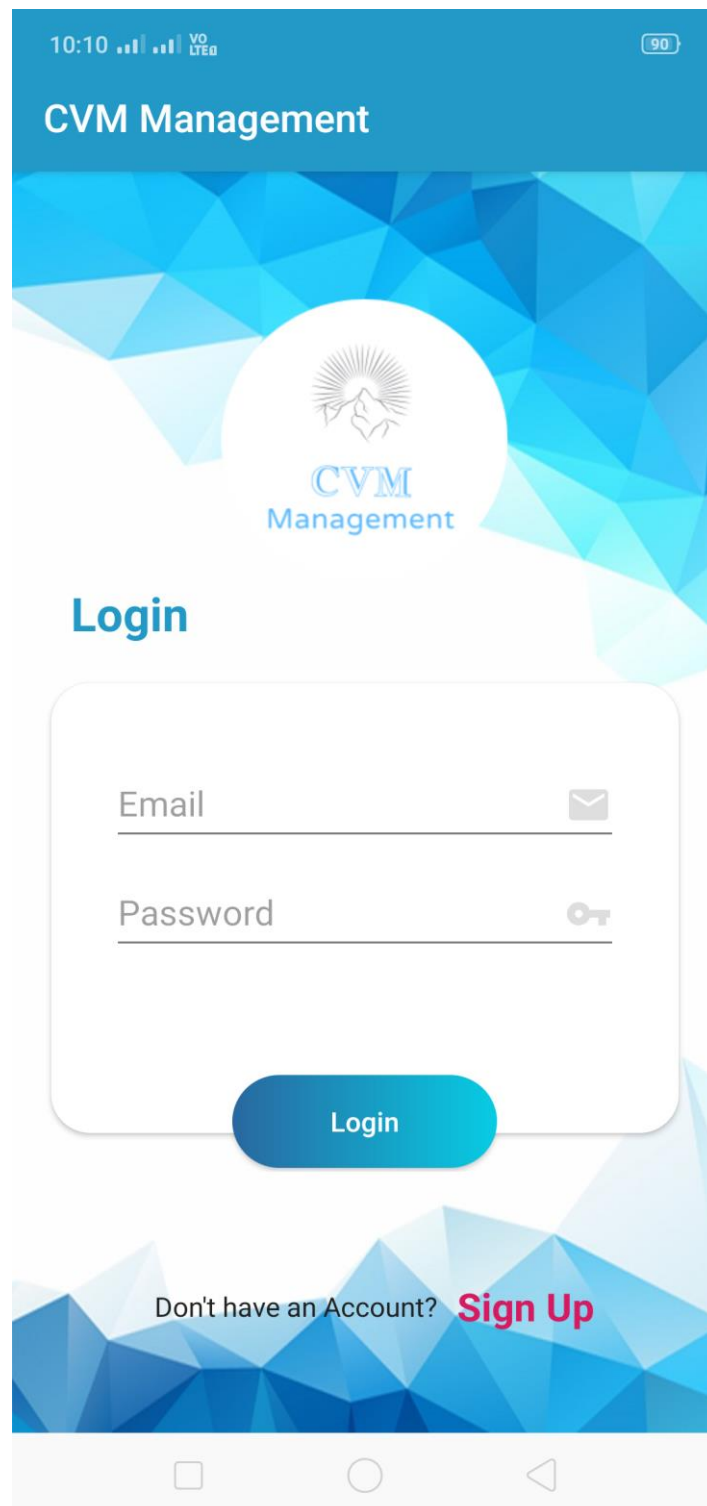
### **SNAPSHOTS**

## SNAPSHOTS

### 1. App Page:



## 2. Login Page:



The image is a mobile app mockup for the CVM Management login page. At the top, a status bar shows the time 10:10, signal strength, and a 90% battery icon. Below this is a blue header with the text 'CVM Management'. The background features a blue geometric pattern. In the center, there is a circular logo with a sunburst icon and the text 'CVM Management'. Below the logo, the word 'Login' is displayed in a large, bold, blue font. Underneath, there is a white rounded rectangle containing two input fields: 'Email' with an envelope icon and 'Password' with a key icon. A blue 'Login' button is positioned below these fields. At the bottom of the white box, the text 'Don't have an Account? Sign Up' is shown, with 'Sign Up' in red. The bottom of the screen features a standard Android navigation bar with back, home, and recent apps icons.

10:10 90

CVM Management

CVM Management

Login

Email

Password

Login

Don't have an Account? Sign Up

### 3. Signup Page:

10:11 VO LTE 90

## CVM Management

### REGISTER

Name

Email

Password

Confirm Password

Gender ☒ Male ☐ Female

Address

Mobile

#### HSC RESULT

Marks:

- Chemistry
- Physics
- maths

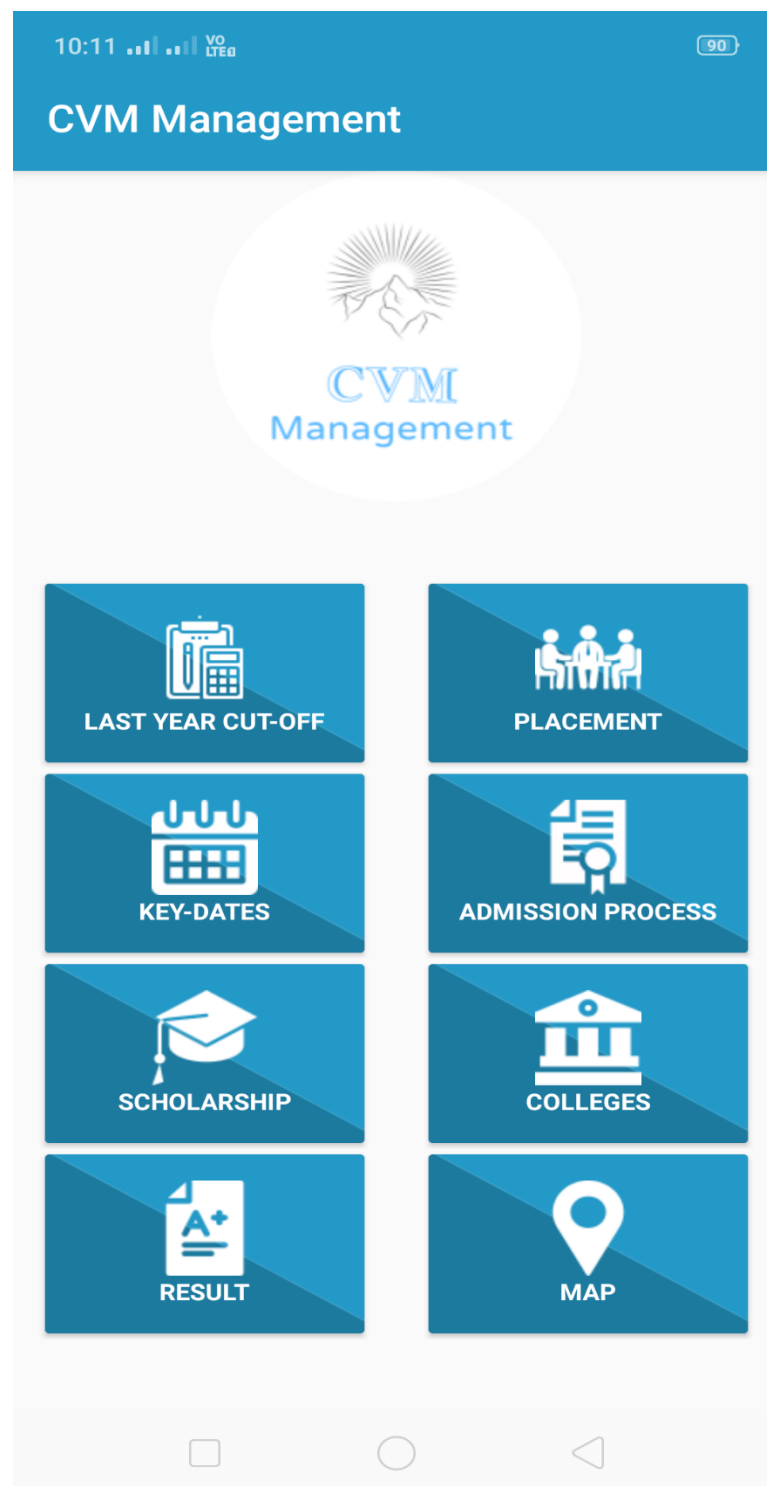
Seat No

Gujcet Marks




[Sign Up](#)

[Already have an account? sign in](#)

## 4. Home Page:



## 5. Cutoff Page:

10:11   VO LTE  90

CVM Management

Marks

Category

College Type

OPEN

All

Branches

All

College

All

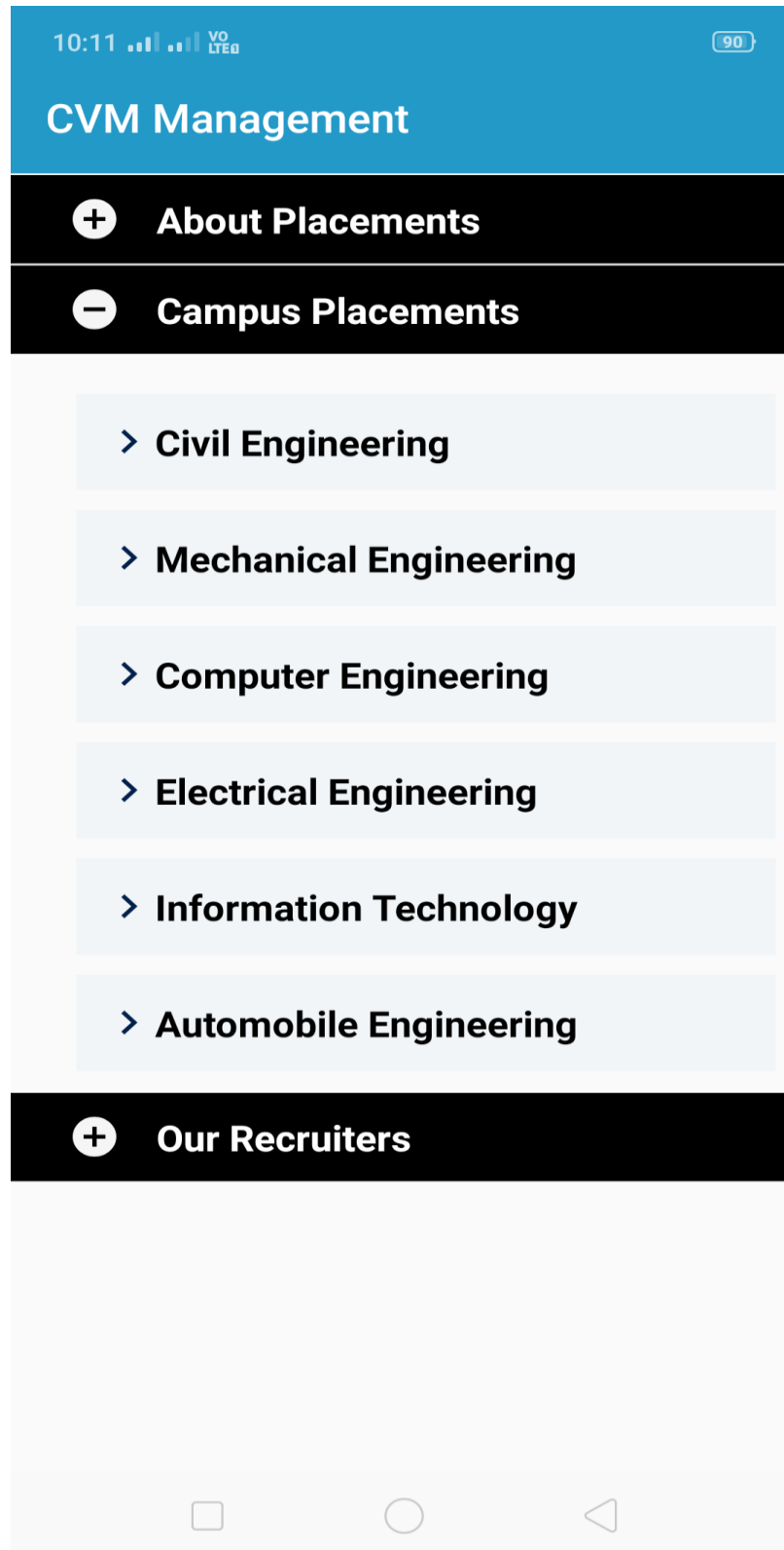
SHOW

RESET

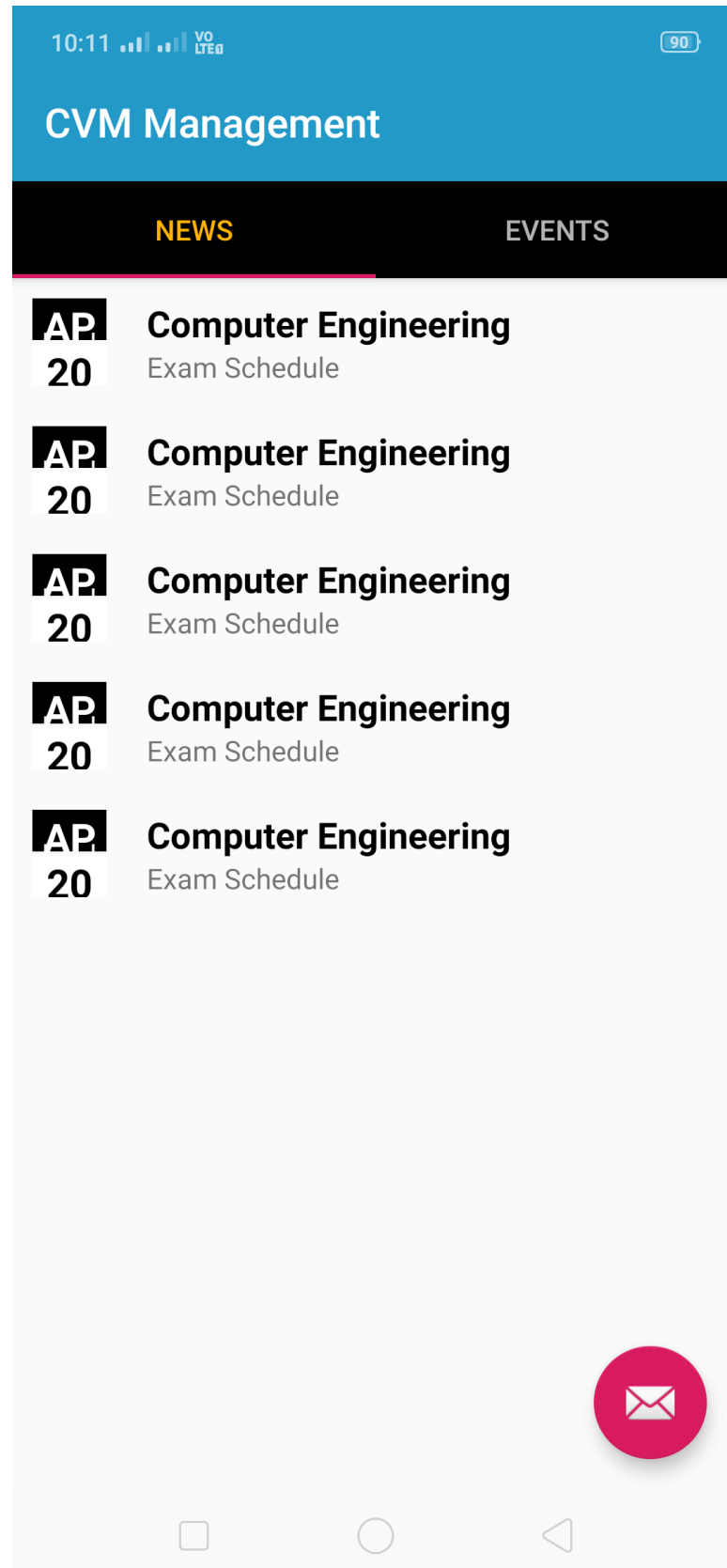
SAVE



## 6. Placement Page:



## 7. Key-Dates Page:



## **CHAPTER 5**

### **FUTURE ENHANCEMENT**

## **FUTURE ENHANCEMENT**

- This Application is under construction. It will be ready in next semester for the perfect usage.
- We are trying to add Features to enhance our project.
- In additional, we can add as many Features according to Requirements.
- Just for now our project is limited to state level, so Forward we are trying to get Online Admission process in Management Quota.
- This application includes Payment Module for Online Admission in Management Quota.
- If we can extend this project, we will provide more details of all colleges like subject, course, marks, materials for student of particular colleges.

## **CHAPTER 6**

### **BIBILOGRAPHY**

## BIBILOGRAPHY

- ✓ <https://www.google.com>
- ✓ <https://en.wikipedia.org/wiki/Android>
- ✓ <http://www.ecvm.net>
- ✓ <https://www.youtube.com>
- ✓ <https://www.youtube.com/channel/UCMO7cKeC0YUxjr5FvE96H2Q>
- ✓ [https://play.google.com/store/apps/details?id=com.acpmec&hl=en\\_IN](https://play.google.com/store/apps/details?id=com.acpmec&hl=en_IN)