Government Polytechnic, Pune-16

(An Autonomous Institute of Government of Maharashtra)

Project Diary
On

"Time Keeper"

For
Semester
Even 2019

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- **SampleAbstracts**

Project Topic: Online Attendance System

Marking attendance in the class meeting session and recording the marks of the students are the prime tasks of the subject handlers, since marking the attendance can regulate the students to attend the classes. Moreover, it verifies number of students present in the conducted classes. The purpose of recording the marks is to analyse the performance of the students in terms of curricular activities. Earlier, the tasks of marking attendance and recording the marks are handled manually by pen and paper method. This method consumes more time and adds more workload to the subject handlers and sometimes the data may prone to error. To avoid these problems, this paper presents a mobile application for student attendance and mark management system. This application is mainly designed for the faculties and other staff members of the organization who maintain attendance and marks regularly. Using this system, the subject handlers, staffs or the authorities can verify the number of students present or absent in the class meeting sessions. This application allows the users to mark attendance through mobile devices and to keep in touch with students. Furthermore, this application allows the teachers to mark and edit the attendance and also to add the marks in the system database for further retrieval. It gives a prior intimation to students as soon as their attendance goes below the specified percentage through an alert message.

Keywords: *Mobile application, Student attendance and mark management system, Java mobile application*

Project Topic: Steganography

Steganography is the art of hiding the fact that communication is taking place, by hiding information in other information. Many different carrier file formats can be used, but digital images are the most popular because of their frequency on the internet. For hiding secret information in images, there exists a large variety of steganography techniques some are more complex than others and all of them have respective strong and weak points. Different applications may require absolute invisibility of the secret information, while others require a large secret message to be hidden. This project report intends to give an overview of image steganography, its uses and techniques. It also attempts to identify the requirements of a good steganography algorithm and briefly reflects on which steganographic techniques are more suitable for which applications..

Steganography is the practice of hiding private or sensitive information within something that appears to be nothing out to the usual. Steganography is often confused with cryptology because the two are similar in the way that they both are used to protect important information. The difference between two is that steganography involves hiding information so it appears that no information is hidden at all. If a person or persons views the object that the information is hidden inside of he or she will have no idea that there is any hidden information, therefore the person will not attempt to decrypt the information.What steganography essentially does is exploit human perception, human senses are not trained to look for files that have information inside of them, although this software is available that can do what is called Steganography. The most common use of steganography is to hide a file inside another file.

Keywords –*Android Studio, Android Device , Java library.*

➢ Final Abstract

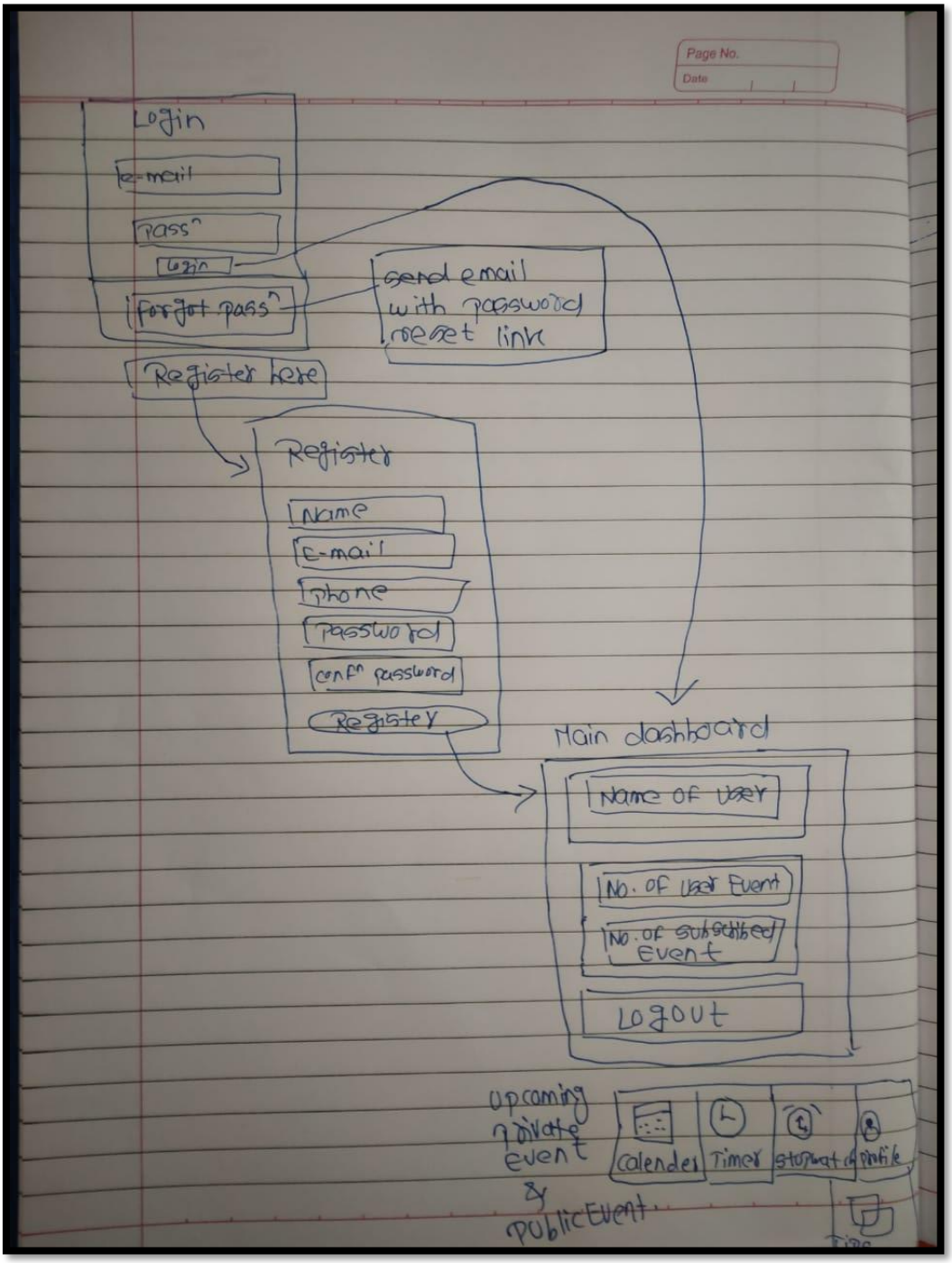
Project Topic: Time Keeper

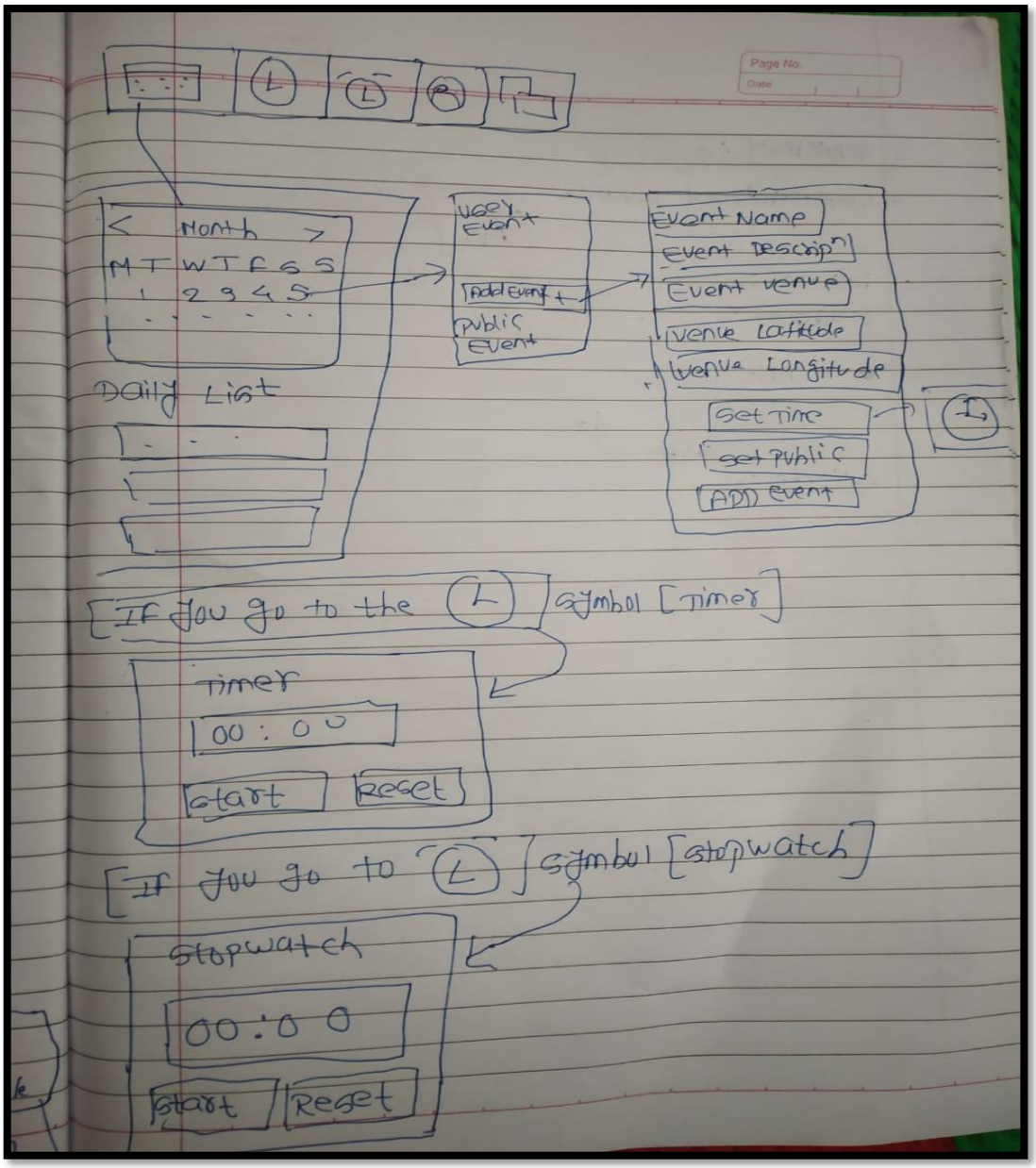
Time Keeper is an android application which accesses the Events of multiple users, for instance members of a student or staff in a particular department and will pull out the events from every calendar. Hence, everyone in the group can see others events on one screen in customized format. It also helps the user to create, edit, and delete events of his/her calendar. Additionally, this application will use an efficient strategy to update data only if there is any change in the events, making it faster. There are many other applications in the Play store but they cannot get rid of redundant events and reminders of events belonging to other users. This causes a lot of disturbance to the user.

On the contrary, Time Keeper application will use intelligent methods to compare the events in many ways based on the time, name, and place of event. Furthermore, this application will only generate reminders for the user to all type of events. This project intend to solve the problems of propagating news and information, and also alleviate the problem of traditional event managing procedures such as lots of paper work, or long queue at the registration desk. The objective of this project is to develop an android application which provides interesting news and events notification.

Keywords: *Date Time information, GPS tracking, Application, Monument.*

- **Paper-work**
  - Following are the snaps of designing phase of ourproject

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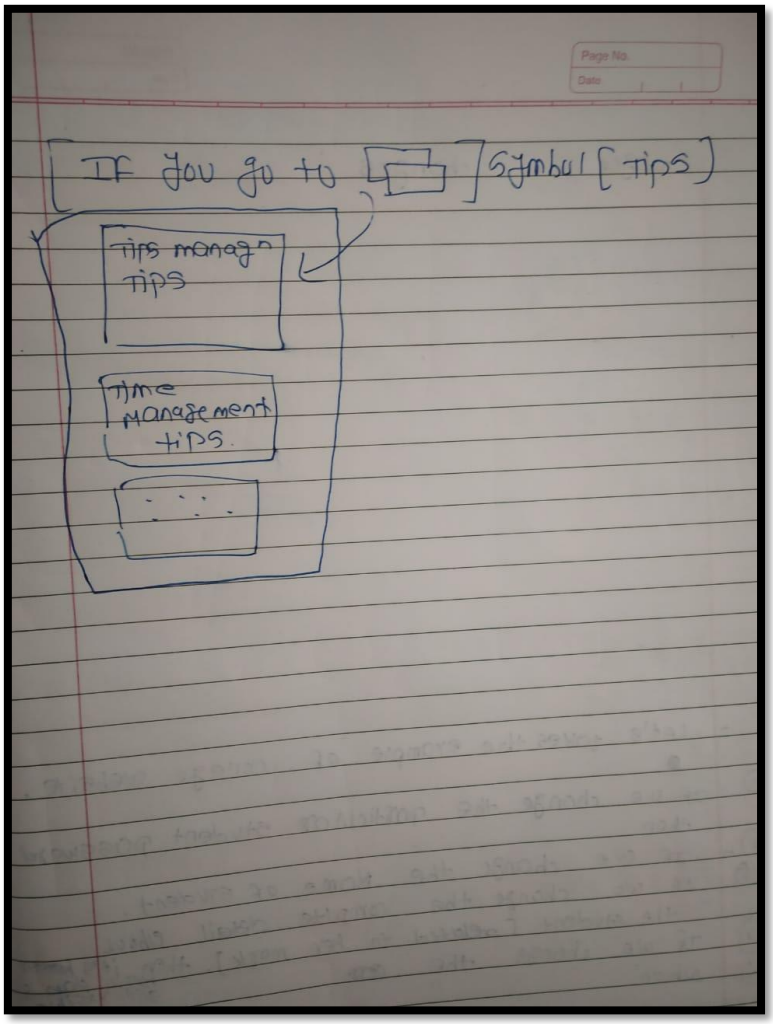
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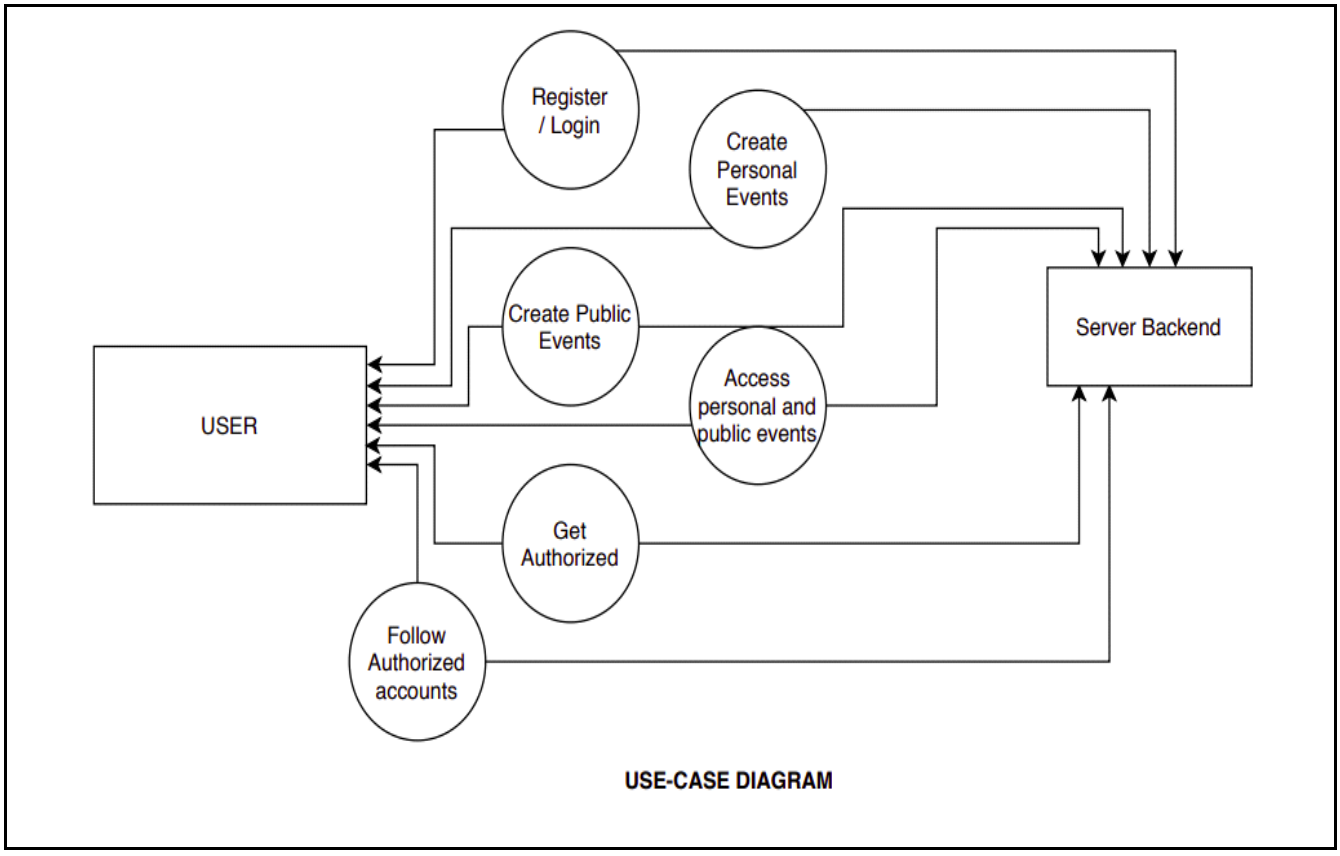
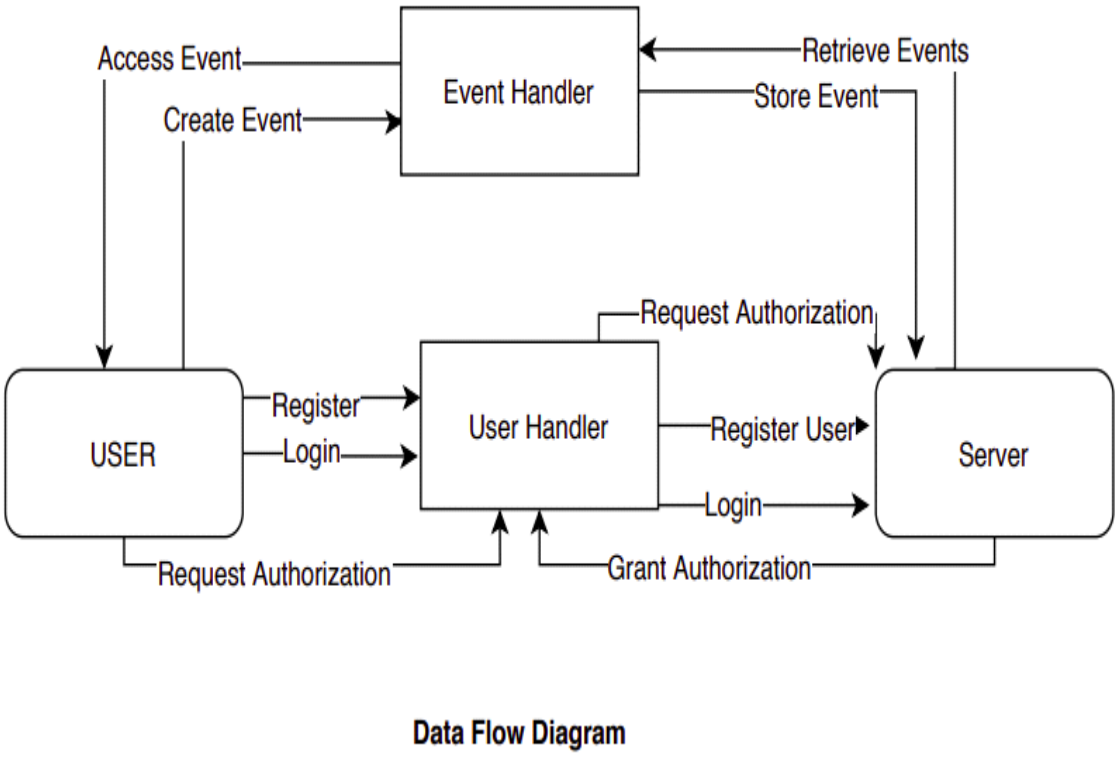
UML Diagrams

1. Use-CaseDiagram



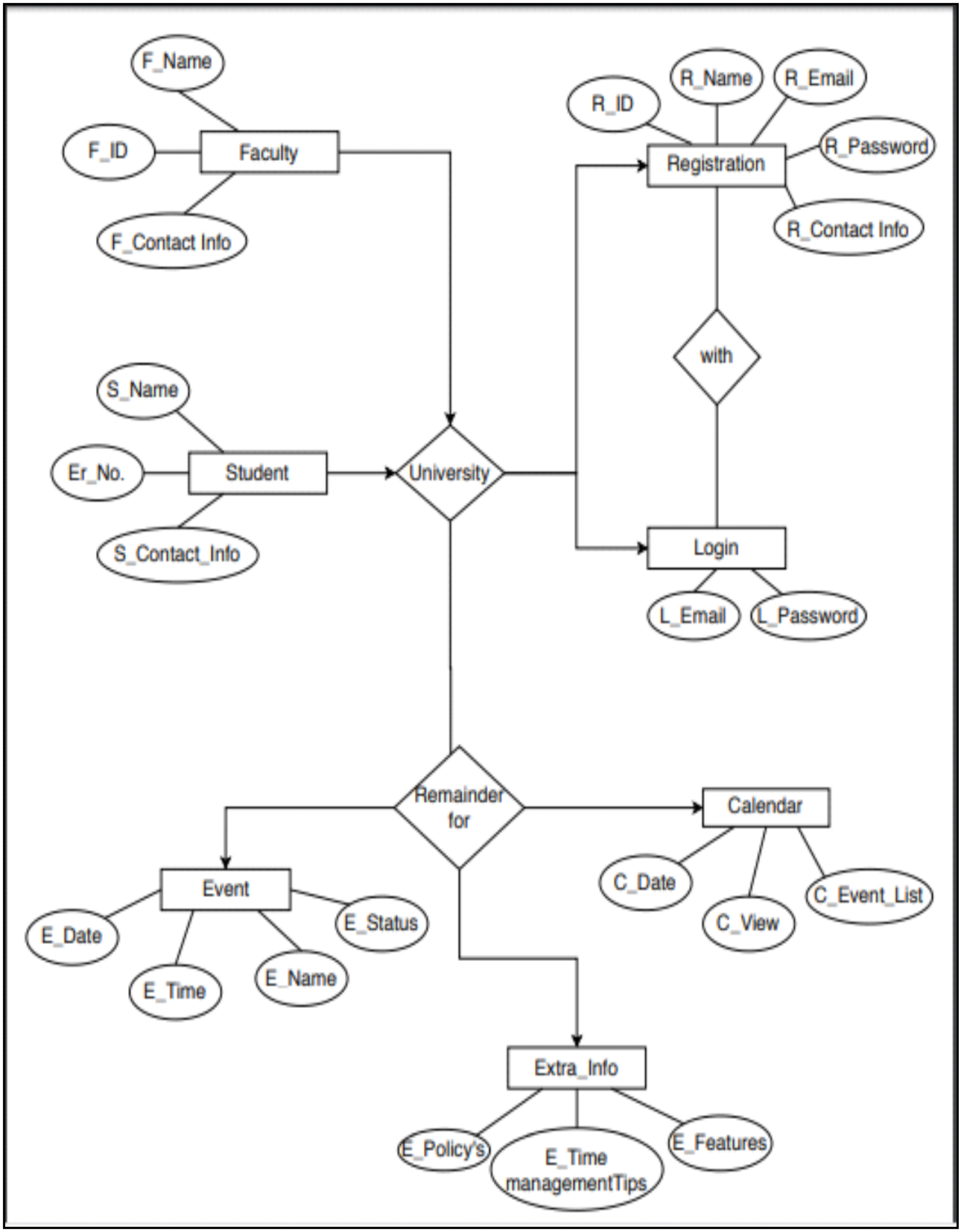
USE-CASE DIAGRAM

2. Data-FlowDiagrams



Data Flow Diagram

E-RDiagram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F_ID
Faculty
F_Contact Info
R_ID
R_Name
R_Email
R_Password
Registration
R_Contact Info
with
S_Name
Er_No.
Student
S_Contact_Info
University
Login
L_Email
L_Password
Remainder for
Calendar
C_Date
C_View
C_Event_List
Event
E_Date
E_Time
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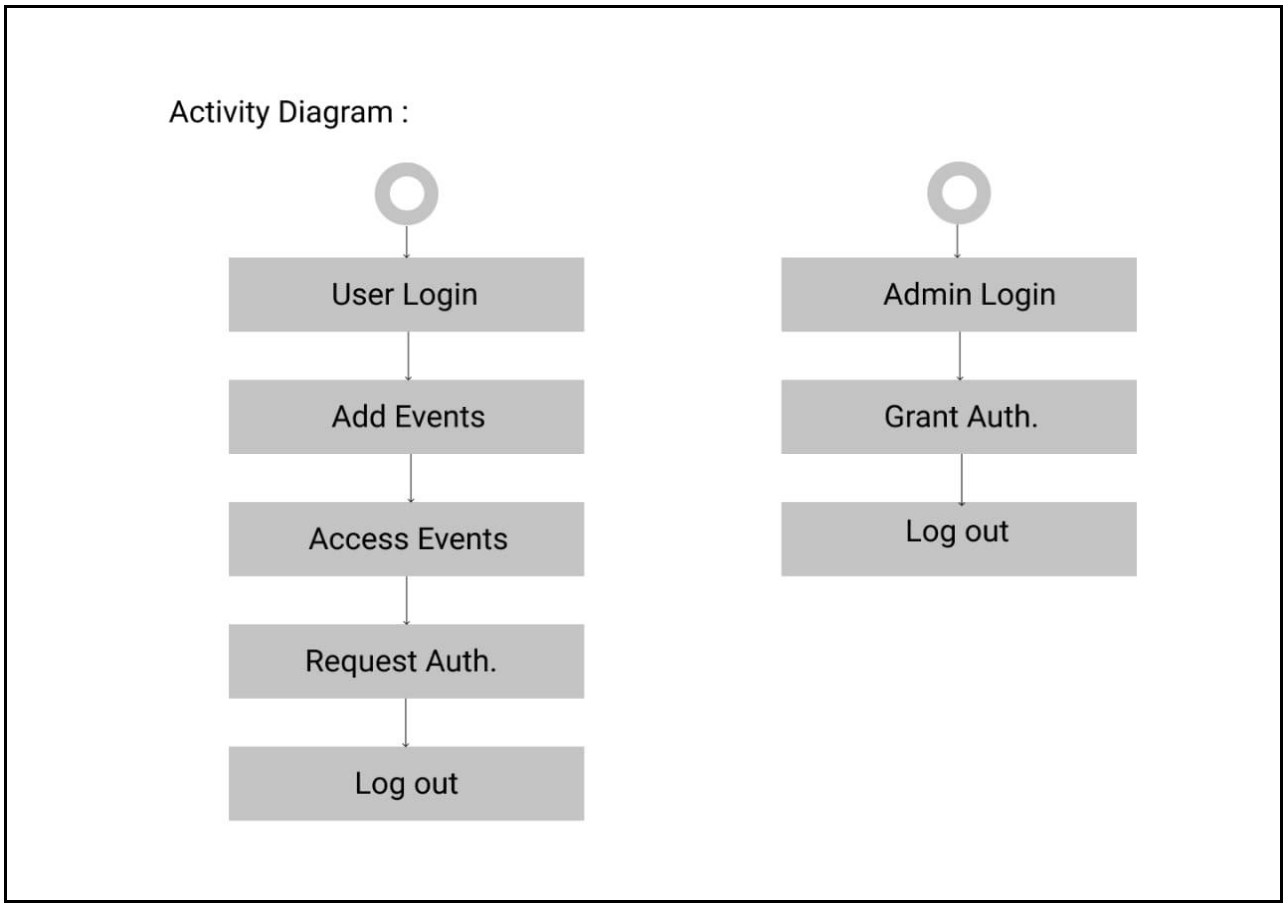
E_Status
Extra_Info
E_Policy's
E_Time managementTips
E_Features

3. Activity Diagram



4. Component Diagram: