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V-MEET Android Application

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***Abstract*—**Android based applications are currently in trend. Several business use this android application to make their work more efficient. The applications are used in the fields like ordering food, medicine, booking tickets and also can be used to book appointment between student and lecturer which reduces their some work load. In this study presents an android application for booking appointment through mobiles where both students and lectures as to be in their respective mentioned at particular time. This application allows students and lectures to access the system by connecting through internet. It also have a feature like dropping a message which indicates the purpose of the meeting and also the student can set a time during the appointment booking. The application is developed using Java as scripting language and used My Structured Query Language (MySQL) for database. This application is cheap and capable of operating on various mobile devices and also user-friendly, very effective and efficient application which can be used by the institutions.

***Keywords*—**appointment, android application, booking, academic institutions

I. INTRODUCTION

Android is a mobile operating system (OS) based on the Linux kernel [2]. Android mainly designed for devices like smart phones, tablets etc. Android is a open-source in nature which encourage and enthusiasts the developer to use it for the proper foundation for the community-driven projects.
Android application development is the process by which new applications are created for the Android Operating System [2]. This android application are usually developed in Java language using Software Development Kit (SDK) and also Android Studio as the API.

These Android applications are widely used as solution to the problems. Here this application is used in concern of student learning and schedule the appointment with lectures at required time. Before this application the meeting of student and lectures is carried out manually which have many problems like sudden meeting scheduled for lectures, some sudden health issues in either student nor lecture will lead to cancelation of meeting but this information may not be reached sometime which is one of the drawback, more than one students meeting the lectures at the same time which leads to deal in meeting lectures etc.

To overcome all these issues or problems created during manual meeting there is a need to develop an android application which makes the appointment work easier and efficient.

This application not only useful for student and lectures but also for the institute. Many lecturers have personal computer system,and also gain access to the internet by their institution's servers. The lecturers use application as a place for accessing and delivering materials through online to the students.

An appointment is a particular time scheduled for something such as a business deal, doctor visit and much like a reservation. Various aspects of appointment processes, such as confirmations, reservations and cancellations are controlled either by student or lecturer. Android application of an online appointment booking system within an academic institution is an area of fast growth because it is a more effective way to overcome all the problems occurred for manual work.

Online appointment booking application are used extensively in hospitals, schools etc. for scheduling appointments and to keep track of patients' records. This appointment scheduling application for students should be able to aid the task of booking an appointment with lecturers. This application allow lecturers and students to relate with each other in real time. The application set up on a multiple platforms from one mobile to another mobile devices enable the students and lecturers to interact with the system wherever they are free or available. In order to keep up with growing technology, there is need to explore various kinds of application in all kind of fields where the whole processes consumptions less time, easy to use and a user friendly interface with just a click. Therefore, development of this android application that needful to the people is very imperative. The objective is to

design student-teacher android based application with aim of making appointment process more effective and efficient and to reduce time consumption and utilizing maximum time of lecturers given for students.

II. RELATED WORK

Time is very important in life of every human being, it is very essential to utilize time proper manner to complete their tasks. Unnecessary time is wasted by common situations like waiting for the appointmentetc.

There are various applications for online appointment scheduling but there is still lack of proper effective implementation for scheduling. To make any appointment one need to send an email or contact the particular person with whom they want to appointment and have to wait for them reply which is kind of waste of time. This android application will help to make appointment easily and also save time of each individual so that they can utilize their time properly.

Currently, there are various scheduling applications available online, which helps students to book appointment. However most of the existing applications only bother about schedule appointments but this application also have some other features also and they manage everything. Some cases where one feels the need for managing appointments are as follows: A set of students might have set up an appointment with the professor, suddenly if the professor had to take an unexpected leave for a day, instead of sending an email to each and every one he can just click a button in the application which automatically cancels all the appointment and notifies the student. Also in case of delay a message can be sent instead of student waiting to meet the lecture without knowing the delay.

The purpose of Application is to schedule and manage the appointments between student and lecturer of same organisation using the calendar given while requesting the appointment and also by mentioning the proper time. It mainly help student and professor to save time and make them meet easily in the available time.

III. METHODOLOGY

The application utilized 2-tier techniques of server/ client architecture software. The client is described as the network application which applied the services of the server. The server proffers services to another host upon a network. Through the system logic the servers administers the clients' requests. The application offers the services such as authentications, generation of request and database operations etc.

System Architecture and Use Case Diagrams:

Students can access this system from mobile phone which are connected to the Internet for booking an appointment with the lecturer (Fig. 1 and 2). Then, the time and purpose of appointment is sent to lecturer's and waiting for their response, either accepting or rejecting it. The lecturer receives the message as soon as he/she logs into the application using their user id and password and they can accept or cancel an appointment with the particular student who have requested for appointment. The student can then be notified about the status of the appointment. This process is shown in the below figures.

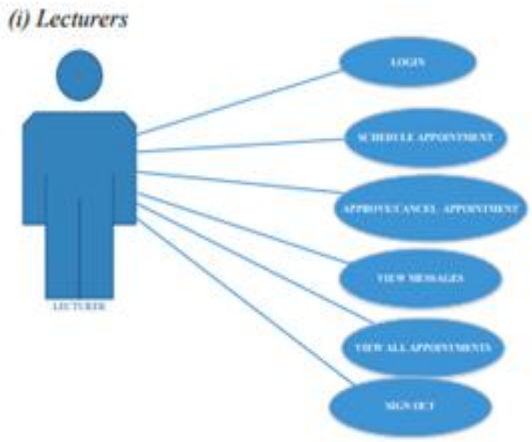

Fig. 1. Lecturer Use Case.

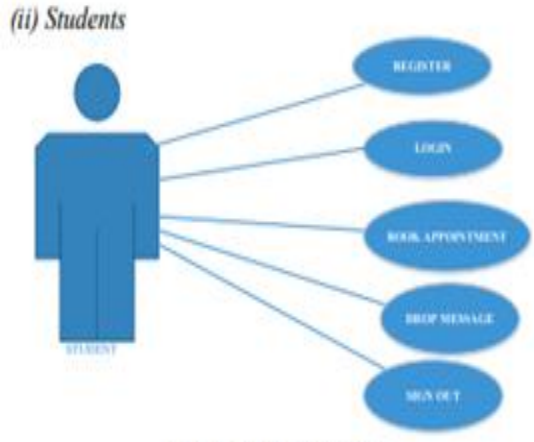

Fig. 2. Student Use Case.

The flow chart is visual representation of the sequence of steps and decision needed to be taken/performed. The below design flow diagram is the representation of the complete process of the appointment scheduling.

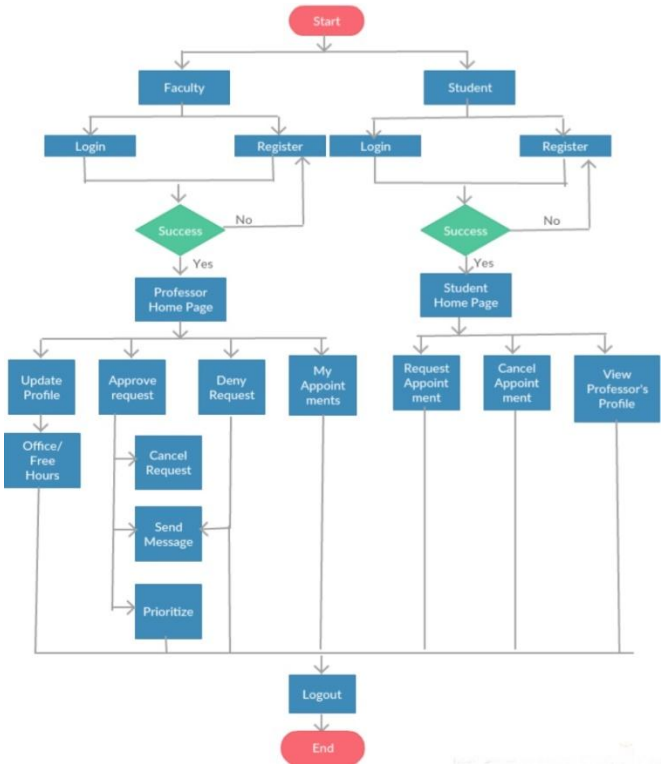

Fig 3. Design flow diagram

In this application both student and faculty need to be registered first and then login to the application using the user id and password generated for them. Then in their dashboard there will be some options like profile to view their details, request appointment where student requesting the appointment with particular lecture, cancel request which is used to cancel the appointment and a special option which is only used by the lecture is accept appointment option where clicking this button lecturer decides to agree to meet that particular student. Both can see the status of their appointment, also have some basic options like update or edit profile, forgot password and logout to exit from the application. This is the basic process of the application which makes student and lecturer meeting successful.

IV. RESULTS AND DISCUSSION

The figures (i.e 4&5) is the example or use case diagram which working successfully. The figure 4 is the student use case diagram where student register and login into their account , their they have options like request appointments, to check professor's profile where they can find out the availability of the professor and cancel appointment which is used to cancel the requested and appointment where they can specify the reason .

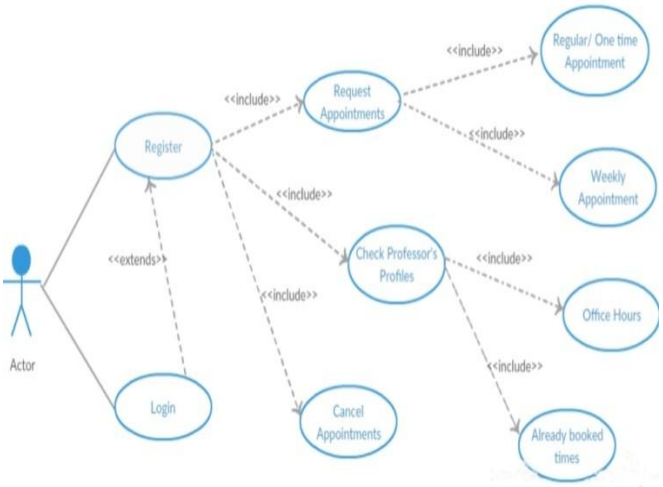

Fig4. Use case diagram for students

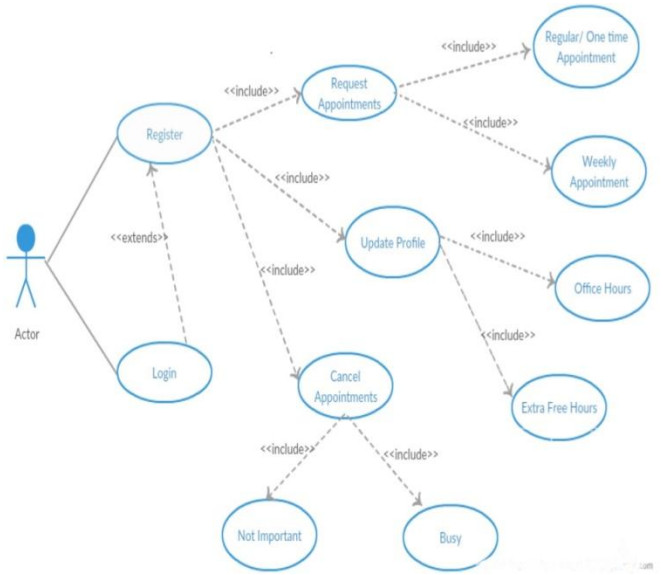

Fig5.Use case diagram for professor

The above Fig 5 represents the professor use case diagram where similar to student even professor has to register and login into their account and options are accept appointment, cancel appointment, update profile where professor update their availability and then can also schedule the appointment with the respective student they want.

This is one of the working example where we can find an scheduling an appointment between student and professor which is very helpful. Using this application student and professor meeting will be done in a proper process and also they will not waste any time in waiting.

V. CONCLUSION AND FUTURE SCOPE

The application design is developed to provide a time saving service to its users by using an android platform/application. This application is able to solve the waiting process of the users by implementing the interface to request, cancel and mange appointments. Here student will be able to view the lecturer profile to gain knowledge of their availability and book an appointment at that time mentioned. They also get the updates of the appointment time to time.

Feature Scope are as follows:

- Scheduling meeting between the lectures in the same organization.
- Time based reminders.
- Option to text with the professor at emergency
- Providing option of sharing the information between the students.

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