IOT BASED SMART HOME AUTOMATION

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Abstract: "College Placement Application" is an android based project. Placement cell is an important part of an institute, where placement activities has been done through manually. Placement officer has to inform all the students about the placement activities manually through notice boards or classroom announcements, which is very difficult to visit all the classroom in the institute and inform the students and it is also time-consuming process. Hence to make these processes easy for both the placement officer and students, a college placement android application is developed. Our application helps the placement officer to provide information to the students about the upcoming companies, via sending a notification to the students. Placement officer also maintains large database of students, in which all the information of students including academic details and resume. Student will be able to apply to the company through this application. There is one more role in this application that is placement coordinator, whose job is to verify the student's details. To lower the burden on placement officer. Our project will be helpful in faster management of placement activities.
Keywords: Placement Cell, Time consuming, Database, Placement officer, placement coordinator, Notification

I. INTRODUCTION

The main aim of this project is to develop an android application for the placement cell of the college. This application is used by placement officer of the college to maintain student information regarding placement. When student's login he/she must be able to upload their resume, which includes personal details and academic details. This application provides updates to the student through notifications regarding the recruiting company, interview date and the hiring process. The main objective of the placement department is to maintain the details of the placement, student details and their technical skills. Once all the details are stored in the database, it is very easy for the placement officer to filter the students based on the eligibility criteria for the specific company. The overall application is maintained by administrator that is the placement officer.

II. LITERATURE SURVEY

Mandira kar, Vidyasree kokane, Balaji rudrawar, Jagatatkar Singh [1]
This system is an application that can be gotten to by the understudy through their advanced mobile phone as an android application and the high approved individual (TPO, Principal, HOD, Department coordinator) through desktop as web application with legitimate login gave. This system can be utilized as an application for the Training and Placement Officer (TPO) of the in statute to deal with the understudy

data concerning arrangement and likewise completed the position action. Understudies logging ought to have the capacity to transfer their data as a CV, Personal subtle elements, Academic details.
Lobo, Gerald, Manchiraju, hariom, Sridharan (sri), Swaminathan [2]
Android mobile apps is used to provide information regarding there college. Android is the fastest growing open source mobile device platform, which in turn is powered by Linux operating system. Android offers a simple yet powerful application development framework (C++/Java and XML) and open access to APIs to build richer mobile applications. Android is a software stack for mobile devices that includes an operating system, middleware and key applications. Today in colleges student details are entered manually. The student separate records are tedious task. Referring to all these records and updating is needed. There is a chance for more manual errors. As mobile devices have become popular; there appears a new trend to release all kinds of campus information by intelligent mobile terminals.
Ramaswamy N Sridhar, Arunachalam, S.P Herrmann, D walker [3]
Training and Placement Cell is an important part of any educational institute, in which most of the work till now is being done manually. The training and placement officer have to inform around thousands of students about every single training and placement related activity. So, to make the placement process easy and effective for the training and placement department as well as the students, an Android application can be developed. This application can help the placement officers to provide the details of upcoming companies. The students will be alerted via a notification. Once the recruitment process is completed, a list of placed students will be uploaded in the application by the administrator.

III. MODULES

1. Placement Officer
2. Placement Coordinator
3. Student

MODULES DESCRIPTION:
Placement Officer:
Placement officer login with the username and password, if username and password is valid placement officer enter into the home page. If incase username and password is invalid placement officer cannot have the permission of enter into home page. Placement officer have the authorization of view all registered students and he can add the placement coordinator. Placement officer act as an authorization of application. Placement officer add the company details,

update added details and delete the company details. He can send notification to all the applied students. Placement officer can view all the student documents, certificates and resume. If any student has any query based on our application, he can answer the query. Placement officer add the selected students into database.
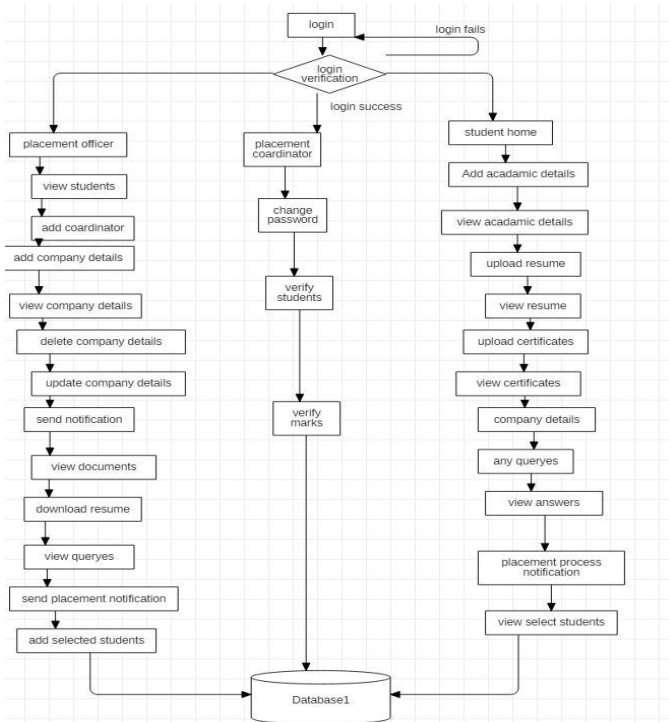
Placement Coordinator:

Placement coordinator login with his user id and password, if username and password is valid placement coordinator enter into the home page. If incase username and password is invalid, he/she cannot have the permission of entering into home page. Placement coordinator have permission to activate the register students and verify the student added marks.
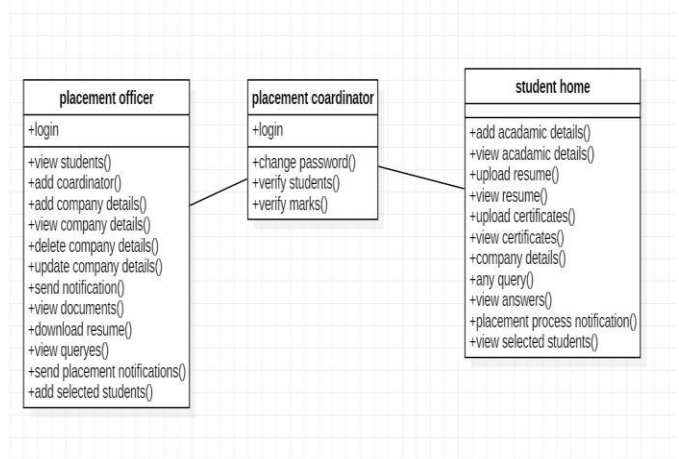
Student:

Every new student first register in our application then student has to wait up to get activation message from the placement coordinator. All activated students have the permission of login into our application. Student login with username and password, if username and password is valid placement officer enter into the home page. If incase username and password is invalid placement officer cannot have the permission of entering into home page. After enter into the home page student upload academic details, resume and certificates. Student can update their uploaded details also. Student can get notification from placement officer. And every eligible student has the permission to apply for company. Based on applied company student get notification of interview process from placement officer. Student can view all selected students. If any query on interview process student send query to placement officer and student can view answer for the questions.
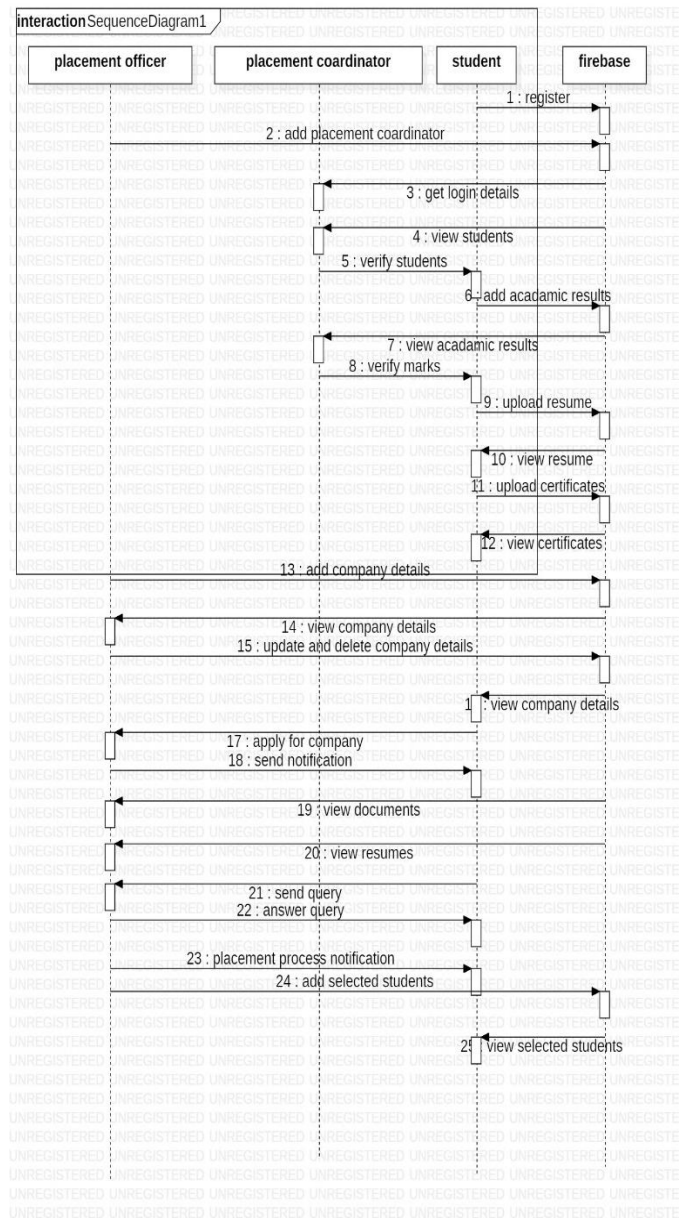
IV. DATA FLOW DIAGRAM

V. CLASS DIAGRAM

VI. SEQUENCE DIAGRAM

VII. SYSTEM ANALYSIS

Existing System:
Existing system is fully manual. Time consumption is more for searching the information. Maintaining of data is very difficult. Students need to queue up at the notice board.

Disadvantages:
• Existing system is fully manual.
• Time consumption is more for searching the information.
• maintaining of data is very difficult.
• Students need to queue up at the notice board.

Proposed System:
This project is aimed at developing an Android application for training and placement cell. In the existing system every work is done manually and also student detail is maintained in a excel sheets. Maintaining and managing a large amount of data is a difficult task. So, to overcome the drawbacks of existing system the proposed system is developed.

Advantages of Proposed System:

It provides an easy way for the training and placement officer to upload information and update the details in the students' database.
● Students will receive notification about the campus drive.
● Training and placement officer will upload information about the campus drive.
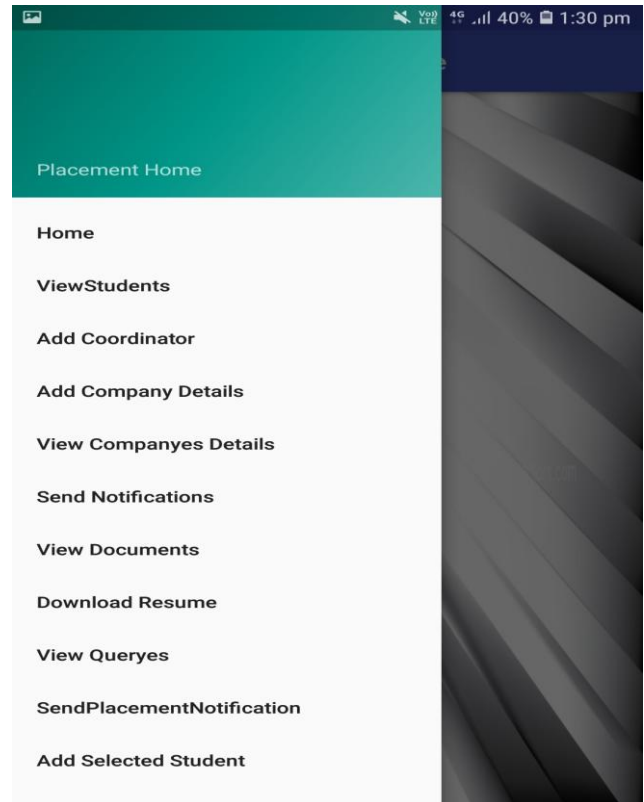● This system can save time and effort.

VIII. SNAPSHOTS
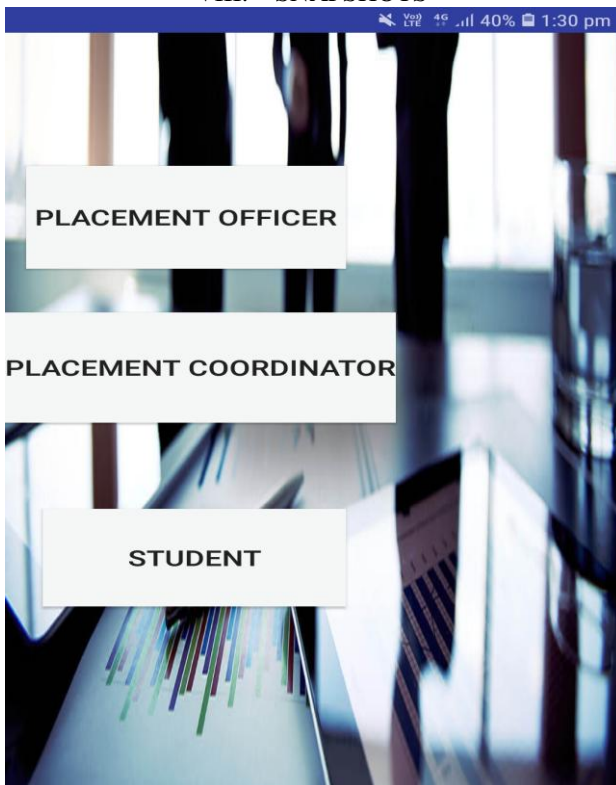

fig: Home page of the app, which directs to the login page of the respective modules

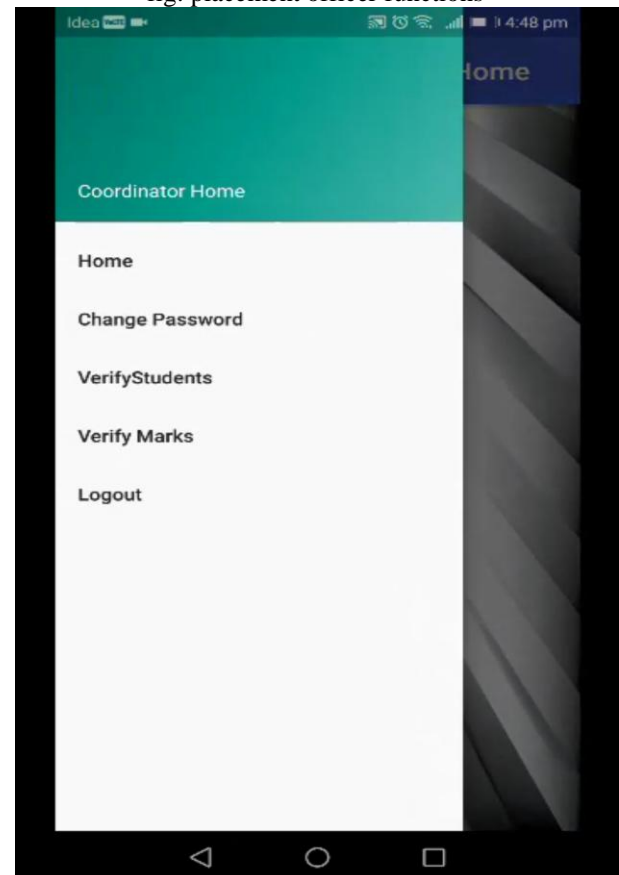fig: placement officer functions

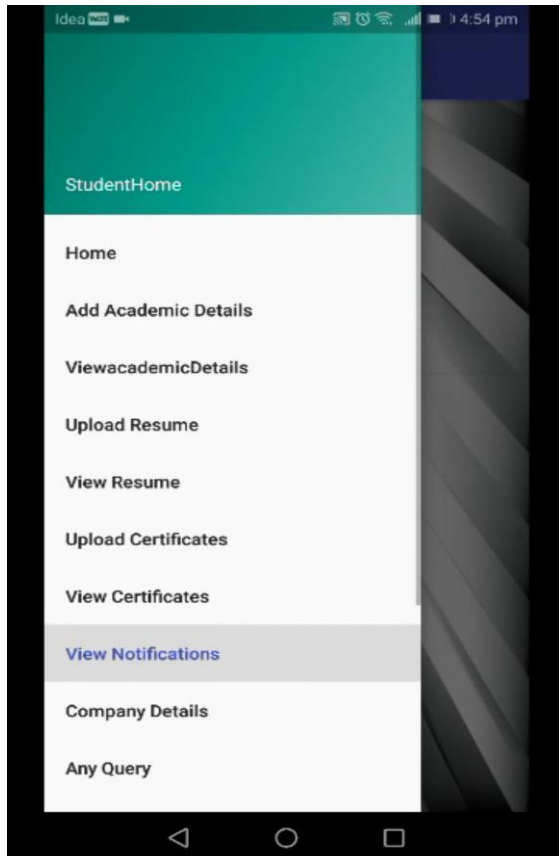
Fig: placement coordinator functions

Fig: student module functions

IX. CONCLUSION

This Proposed system is automated, registration of all the user can be done. The admin can see the user information and will validate it, sends notification to the students based on the company criteria. company details can be provided to the user, searching and sorting can be done, and reports can be generated. Overall, all the process of the training and placement department is automated. Hence this proposed system is time rescuer. After the system has been studied, designed, developed and tested, the following conclusions were created. The Developed system can guarantee to keep the records safe which is stored in the database. It generates reports that provide description details including various number of students placed in the company. The analysis of placed students recruited by the company will be made available in this application. Though this project provides a better way for the training and placement department, some more additional features can be added for the betterment of the application in future. The list of students should be automatically filtered based on the criteria of campus drive. The student as well as Training and placement officer should be able to communicate by sending message via this application. Test link should be uploaded so that the students may be able to test their technical skills.

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