

AN ANDROID APPLICATION FOR HOSTEL GIRL'S SECURITY

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ABSTRACT:

In today's life "SECURITY" is the important term for one and all. But it is more important for girls who are leaving in the hostel and studying outside at any place away from parents. When they move from the hostel parents are not sure of their return safety. So, in this application base project we will designed the android app that will send all the information to the parent as their ward will leave the hostel.

Also we will provide the authority to the Head of Department as well as the warden mam who takes the responsibility of the girls to have all the records of each ward. This app will provide the security to the parent that they will know about their child for her current location. In this paper we discuss the security issues and possible solution to overcome them using an android application.

Keywords: Android App, Girls Security, Security issues

CHAPTER NO: 1 INTRODUCTION

Today there are no security precautions present in the hostel when the girl leave the hostel, so we will design advance app through which messages are send at the home when a girl leave a hostel for any reason such as city visit, vacation leave etc. Today there are no security precautions present in the hostel when the girl leave the hostel, so we will design advance app.

Recently the use of Smartphone's based on Android OS has increased rapidly hence providing better security policies is becoming most important area of research. Android is very useful gadget in human's daily life now a days. It helps in every sector of work. Due to android version phones as usual we know the time in another mobile it helps to set a perfect time table for daily routine. We can call everyone by the any phone but due to android phones we can call with video also via internet at any place of world.

An android app is a software application running on the android platform. Android provides an open source platform and application environment for mobile devices. Applications are installed from a single file with the .apk file extension. Mobile app is used for different purposes like entertainment, shopping and office/business.

To utilize the benefit of mobile apps which is available in the app store, the first step you need to download the application from the app store. While downloading the app, it will show different categories you need to select one which is suitable for your work either it may be for official purpose or it may be for entertainment purpose, choice is yours[2].

Do you think using mobile phones is only helpful for answering and making a call and it makes your life easier? I think it requires even more to make your life comfortable. People always look forward to lead their life with more comfort and ease, like that, the usage of mobile phones should also get advanced. Smartphone which acts as a mini computer, it does mean by using a computer, whatever work you can do quickly and easy, smartphones also help to make that work get done quickly or even much better than computers. Because, in a smart phone has lot of facilities are available like touchscreen interface, operating system capable, internet access.

So we use Ionic Framework, Angular JS, HTML5, CSS3,MYSQL Database in designing the android app for girl's security. i.e. AGS.

CHAPTER NO: 2 RELATED WORK

Following are the various existing android application that currently being used by girls and women's security purpose.

- **Are Women's Safety Apps Really Use full? What exactly are women security apps?**-When you search for apps facilitating women's safety on Play Store, there is a beeline of apps that appear on your screen. Let's talk about a few selective apps that have witnessed a decent amount of downloads. All of them have almost similar features, with a few exceptions. The basic function of these apps is **to send an emergency SMS to the user's family/ relatives/ friends**. Apps like Nirbhaya, Women Safety Shield, Fight Back, I Am Safe and many others in the same category employ the user woman's GPS location and send it to the emergency numbers stored by her [3].
- **P. Kalyanchakravarthy**- Android is java based operating system. It's lightweight and full featured. Android applications are developed using Java and can be ported to new platform easily thereby having huge number of useful mobile applications. This paper describes about a Safety Triggering application being developed and its successful implementation with tested results. The application has target users those sections of the people who surprisingly fall into a situation where instant communication of their whereabouts becomes indispensable to be informed to certain authorized persons at remote end. This application main purpose is for women's safety [1].
- **Sauver: An Android Application for Women Safety**-As a part of literature survey, we investigated some applications of women safety that already exist in market. The aim is to observe how these applications work and to see how they can be improved and how are they different. To date it is identified that the following Android Apps of women security are good and are offering relatively similar service.
- This app is developed by App Soft India. The key features of the app are: the user has to save some details. These details include: Email address and password of the user, Email address and mobile number of the recipient and a text message. Then, app is loaded as a "widget", so that when the user touches the app, it alerts the recipient. Another key feature of app is that it records the voice of surroundings for about 45 seconds and this recorded voice, text message containing location co-ordinates of the user is sent to the recipient mobile number [4].

2.1 EXISTING SYSTEM FLOW:

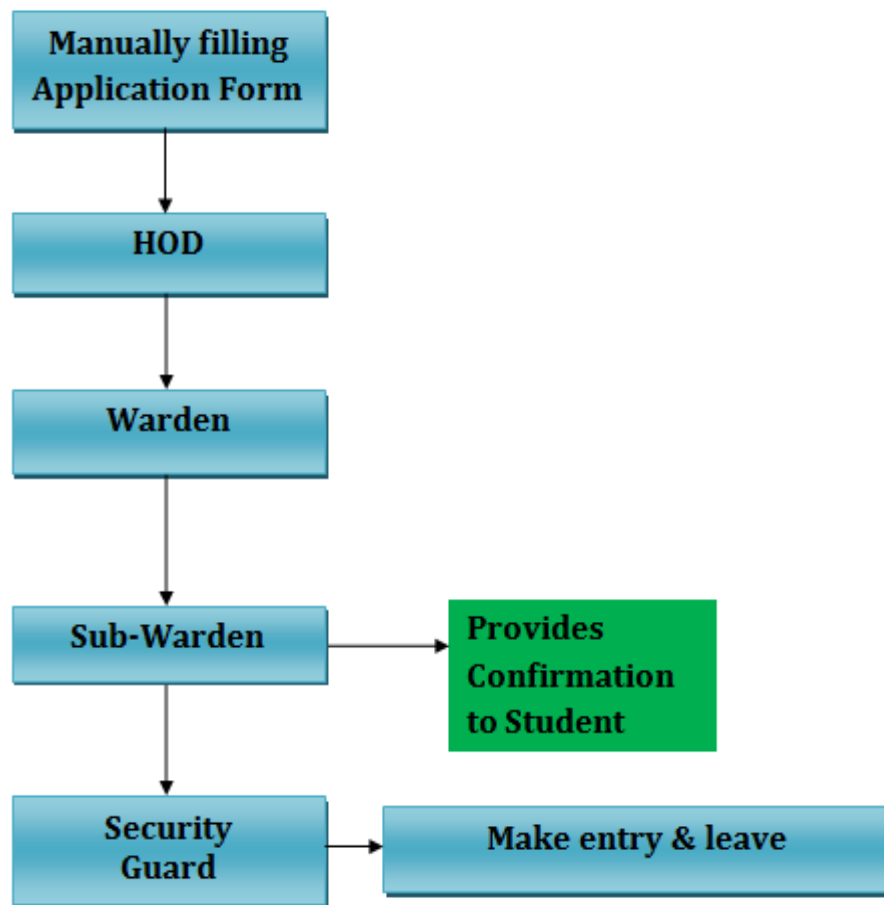


Figure 1: Existing System of Hostel

In the above figure 1 shows the current scenario of our hostel. In that when the student want to leave from the hostel for any type of reason i.e. it may be a student going to home or in city etc. then firstly she need to fill the “home out pass” application form then take a permission of HOD of the department then when he approves it then student need to take the sign of warden mam after that submit that form to the sub-warden then she also provides the permission for leaving the hostel then at last student submit that form to the security guard and then the process is complete after that the student has to raise her entry in the outgoing register book and after all these process student has get the permission from hostel. But in case the in above sequence if HOD is not present in the college then the student has a problem for getting a permission because without permission of HOD warden and security not give permission to the student. And also it is very time consuming process that each girl require to follow each time when she leaves the hostel for any reason.

So to overcome this scenario we make the android app for those girls who live in the hostel or outside the home.

CHAPTER NO: 3

ARCHITECTURE

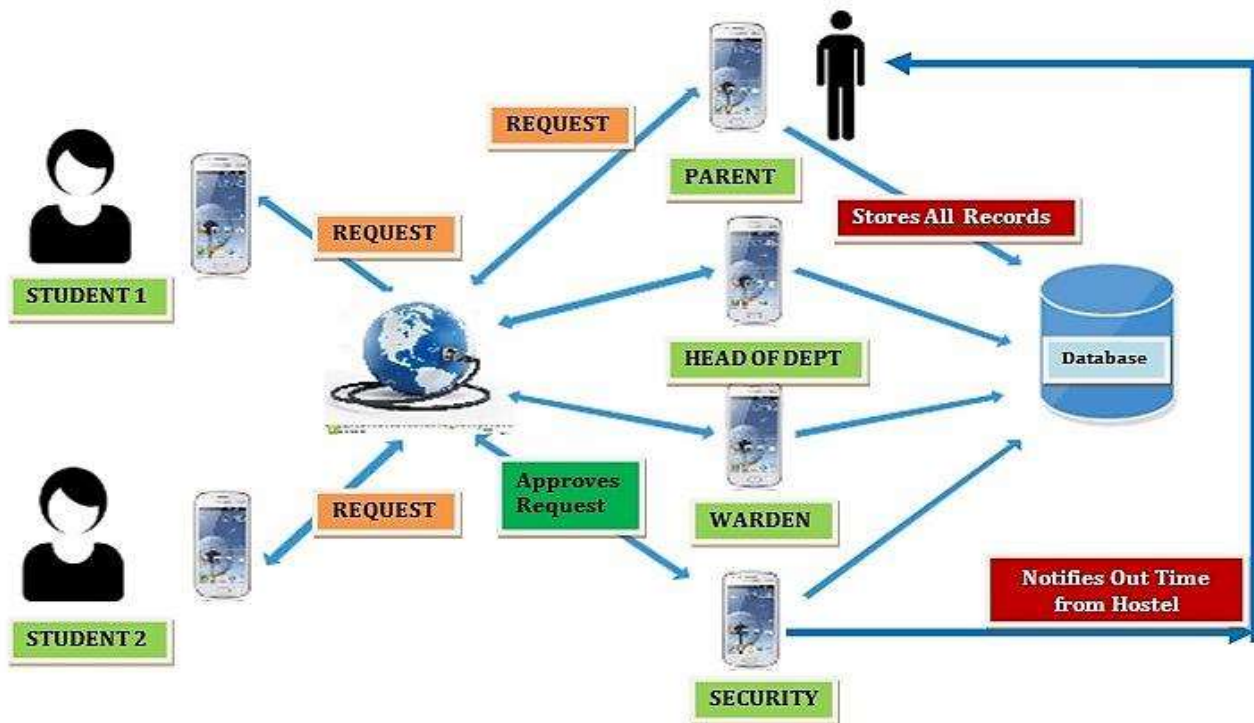


Figure 2: Architecture of android application for girls security

In above figure2,

- Student first takes the permission from their parents who ask for the leave from hostel if they permit then no problem otherwise request for leaving a hostel is discarded.
- If parent give approval for the request then the request automatically send to the HOD by using application, HOD will see that request and if the request is legal then HOD will approve otherwise the request will be cancel.
- When HOD will approve the request the request will be forwarded to the warden for further process and warden will also approved the request.
- After that approval is received by the security and he allow the student to leave and send the exact out time to the parents.
- Finally, All the information is save in the database.
- The benefit of making this app is mainly the security then it will replace the time consuming process also the student has no need to fill up the form and take the permission manually. And also any module of given authority is not present in the college the student has no worry about the permission because by one click from anywhere and anytime he will permit to the student.

Following are some of the screenshot of android application that we had developed

Snapshot1: Snapshot of login for main page

When we open this application the main page contain the login from which we can login as student, parent, HOD, Warden, Security guard. Through this application we will do all sign in from single login page.

Snapshot2: Snapshot of registration for student.

On this page we have to fill all information regarding to student who has taken admission in hostel.

So that, when student wants leaves from hostel then they can simply make request from their own mobile using their own username and password.

Snapshot3: Snapshot to raise request by student

This snapshot shows which are the possible available options for raising a leave request by the students. For example leave for vacation and leave for city.

Vacation Details		Close
Student Id:-	15	
Full Name:-	priya kale	
Branch:-	Mech	
Year:-	4	
Contact No:-	1234567890	
Date of Application:-	2018-03-26	
From Date:-	2018-03-25	
To Date:-	2018-03-28	
Vacation Reason:-	holidays	
<input type="button" value="Approve"/>		

Snapshot 4 :Snapshot of vacation details.

This snapshot shows the duration of leave of student who raised the request for any reason. The same request format is provided to all the authorities which are using this application.

Vacation Details		Close
Student Id:-	15	
Full Name:-	priya kale	
Branch:-	Mech	
Year:-	4	
Contact No:-	1234567890	
Date of Application:-	2018-03-26	
From Date:-	2018-03-25	
To Date:-	2018-03-28	
Out Time:-	2018-03-26 14:59:09	
Vacation Reason:-	holidays	

Snapshot 5 :Snapshot which send out-time to parent.

This snapshot shows the hotel leaving time of Student who raised the request. At last security guard send the exact timing of student departure from hostel with date to her respective parents.

CHAPTER NO: 4

CONCLUSION

In this paper we have given the solution on the problem of girls security who leaves in the hostel by using an android app. This app will provide the assurance to the parent that they will know about their child for her current location. So, in this paper we had designed an android app that will send all the information to the parent as their child leaves the hostel.

The ultimate aim of this paper is to replace the current time consuming process which hampers the academics of student and as well as provide the best solution for security of girls using an android application. That which girl want to take leave from the hostel then all information about that is discussed with their respected parent using this android application.

CHAPTER NO: 5**REFERENCES**

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