The Printer

Arun Das, Sathish Kumar N R, Anup S Kumar, Sahaya Sakila.V.
Department of Computer Science Engineering
SRM University
Chennai, India

***Abstract*— It's an android application that helps the college student mostly. During the end semester we have a lot of projects or assignments and most of these has to be printed. When we go out for printing we have a huge line or queue always. We miss our classes or we miss our attendance. This app help us to directly select shops around us that prints our material and upload the file. The payment should be done online. The material can be picked up or it will be delivered to us.**

I. INTRODUCTION

The printer is an android application that help us to print. The app is a collection of the shops basically internet café and Xerox shops around us. The starting version of this app uses location and finds the shops that are registered with us. This application will help the students greatly. During the end sem we have a lot of material that has to be printed. But what happens is , the shops are always flooded with students and most of us end up missing class. This app will help the students to be prepared before hand. Also this will help the shopkeeper to maintain a free flow of their work. The advantages of this app

1. Helps students not to stand in queue.
2. Helps the shopkeepers to maintain free flow work.
3. Reduces crowd to a great extent.

II. BACKGROUND/REALTED WORKS

For this app to work first we provide a login id and password for each user of anyone.
This user id and password are saved in a database provided by the google that is the firebase. In firebase Jason objects are created in which each user has his own credentials saved and all his tickets that are being put by him.
Each user have to first login into their own home page by providing the credentials. These credentials are first checked by the server whether it is correctly given by the user by checking from the data saved in the database. If these credentials given by the user is correct the login page will sign in to the home page of the user. But if it is not correct then the app will return an error saying that the user id or password is wrong. Also for the shops we have a login. These shops are verified by us personally.
In the home page all the shops that are around a user are shown according to his location.
The user after logging in will be displayed a number of shops around him according his location. These shops are registered in our database. Also the price of print per page will be displayed here. Now the user can select any shop according to his wish. At the second page he will be displayed the status of the shop i.e. by when he will get his printed work and a column to upload his file only in **pdf** format. The app uses a similar user interface as that of hike or whatsapp. The app will have a mechanism to count the number of pages and tell the user the amount he has to pay. The payment for now can be done through PayTM.
We are talking the payment before hand to reduce the misuse of this app. There may be fake users and they can be upload any fake files and if the shopkeeper prints in it's a loss for the shopkeeper.
The credentials entered by the user can also edited , his password or name or his pic that he has provided. If he wants to change the password then he has to go to the edit password page and provide his old password and new password. The server checks the old password and if it is correct it updates the new password. In the same way the name and the pic provided by the user can also be changed easily.
The admin page is also the same he or she has to enter the credentials in the login page and login to their home page. The page for them will be in different format. Another major of this app is that the user and the admin can chat with each other.
All these data are stored in the database and hence are not lost. There is an offline database feature also which uses My SQLite in which the datas are stored whenever there is no network.

III. LITERATURE SURVEY

A.Messaging Appliaction-Whatsapp,Hike etc

- All these applications commonly known as whatsapp family allow file sharing in almost all formats but they do not provide the facility to get our files in a printed foirmat. The files just remain as a soft copy in our system. But The Printer allows users to share files and get them printed both in a go.

B. File sharing apps like ShareIt,WiFi-Direct,Xender etc.

- All these apps file sharing at the very instant but again they just stay in the form of soft copy. Some of these applications allow us to print the files but to a printer if its present directly at our home or to a printer that is linked directly to the phone.

C. Applications that provide us with customer services

- This app allows the users to print their material and get the same delivered to their place or they can come and pick their stuff according to their wish. The newer versions of the app will also have lots of stationary stuffs available online. No other application or web application provide such facility.

IV. PROBLEM STATEMENT

- Every college students face this problem of printing their material on time. But also we all wait for the last minute and clog the shops. It's a mess for the students and the shopkeeper as well.
- There are various application and ways to share files to the shops but there is not an organised and collective system under one shed. Some of them have the file sharing system but it cant be reached to many students, or everyone is not aware of it.

V. PROPOSED SYSTEM

- An android app used to resolve the problems faced by the students at colleges.
- This app can also be used by people who needs to find a Xerox shop or a internet café nearby them.
- The use of this application is expected to remove the queue and clogging, thus facilitating a free flow work and environment in the shops and for students as well.

Hence like this he will be able to explain his problem properly and within less time the problem will be solved and he can get back to work again.

ESTIMATED OUTPUT

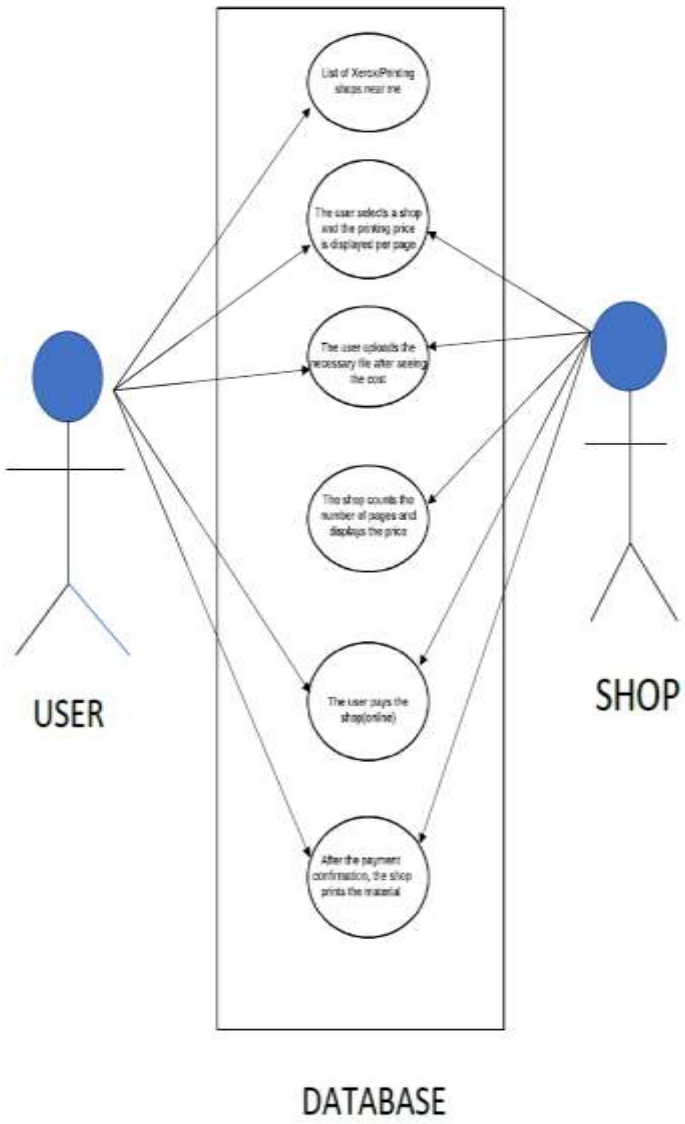

Fig. Activity Diagram

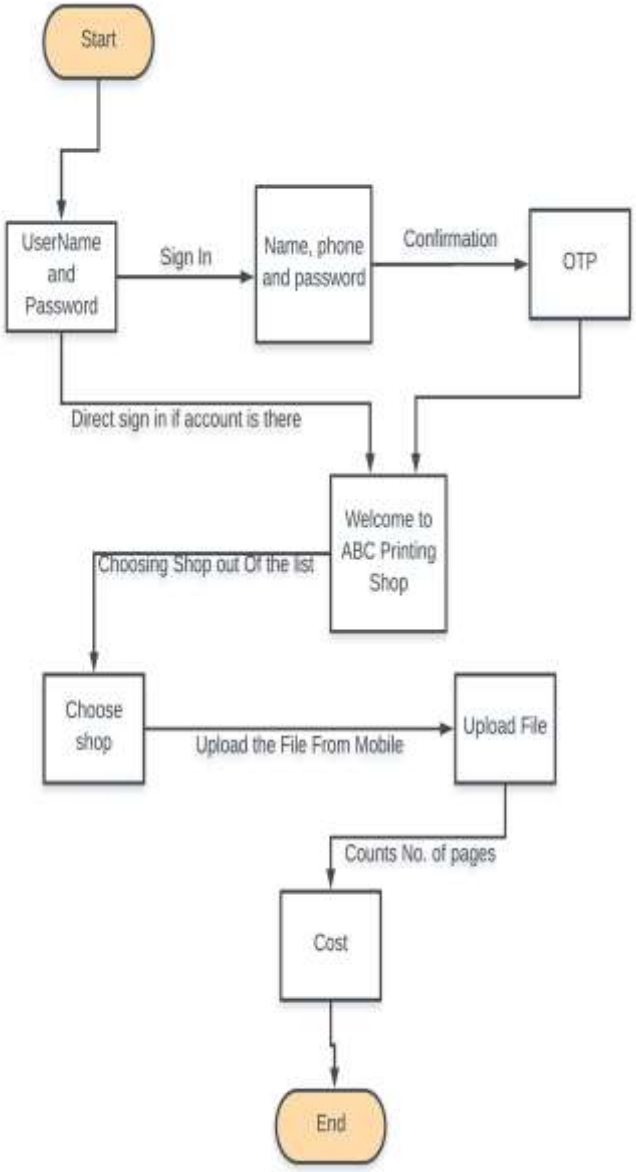

Fig. Flow chart

VI. FUTURE SCOPE

The Printer Application can be used to solve the clogging of crowd in these Xerox shops and net cafés. This application will enable college students to be care free i.e. the students can concentrate on classes and leave the printing job to the app and the stores around them.

VII. CONCLUSION

In the upcoming generation this app will be in great use by all the firms as it will be helping to solve the problems easily. This app is a user friendly and can be used anywhere any time. This app will be developed to newer versions having many other features. Hence we conclude by saying that this app will be in great use by the future generation and

ACKNOWLEDGMENT

We would like to thank our guide Ms. Sahaya Sakila V., Asst. professor (CSE Dept) and Dean of our University.

REFERENCES

1. Patrick Stefanescu ,Marian Mocan ,Werner Stefanescu for System science and Engineering (2013)
2. Spiridon Bakiras, Xiaohua Xu, Erald Troja for Communications (ICC), 2017
3. https://en.wikipedia.org/wiki/Internet_of_Things
4. http://www.internetsociety.org/doc/IoT-overview
5. https://www.firebase.com
6. https://en.wikipedia.org/wiki/Firebase
7. http://www.main.org/polycosmos/glxywest/vimanas.htm-Indian Flying Machines
8. http://www.ehow.com/how-does_5561845_do-ir-sensors-work.html#ixzz310syLD6I
9. http://homepages.which.net/~paul.hills/Emc/BecBody.html