IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 5, May 2021

DOI 10.17148/IJARCCE.2021.10538

Work In and Out

Himanshu Kumbhare[1], Mayur Wahale[2], Shubham Shirpurkar[3], Sahil Patil[4], Harshit Gupta[5], H.R. Turkar[6]

Student, Department of Computer Science and Engineering, Rajiv Gandhi College of Engineering and Research, Nagpur, India[1,2,3,4,5]

H.O.D., Computer Science and Engineering, Rajiv Gandhi College of Engineering and Research, Nagpur, India[6]

Abstract: As we all know today, world is suffering from an ongoing global pandemic. This pandemic has brought chaos and problems for everyone. It presented unprecedented challenge for human health, food system and world of work. The worst of the effect is on public social and economic life. Therefore, it is imperative to design an application which may help in the crisis in factor of economic recession. To overcome this challenge, we are designing an application on android platform for mobile devices. We chose mobile application because it is an essential part of everyone's life and most people use it today. Targeting public devices on mobiles will be much easier than on a web application. It is proposed to use React Native and Node.js for the programming of the software for the devices. The application mentioned here will help people searching for job and those people who wants their work done by a professional. It's an integrated software for consumer as well as service provider.

Keywords: Pandemic, economic, application, android application, jobs.

I. INTRODUCTION

The objective of this project is to propose a real time system for consumer as well as service provider. Both above targets can be achieved in same app by using android application on a phone. In recent years, deep research has been carried out on this type of system and many have created applications on Android and IOS, but they lack one important objective. That type is service provider section, here we are targeting that problem and solving it under same application by giving both type of users one roof for their solution. Here we are using React Native and Node.js to create an application and SQL library functions to save user data during the process.

This application doesn't use special algorithms or extensive programming rather it makes use of simple in-built services within the programming applications. It helps us to create an application much faster and concentrate more on services provided by us to the users of this android application.
A good amount of information on multi-layered design, developer and user side scripting strategies, a quarter of the usage methods like JSP, programming dialects, for example, Java, JavaScript, HTML and data set methods, for example, MySQL and Microsoft Visual Studio are required. We have used open source codes and free to all programming modules which made developer work economically and invest more on services. As it is a well-researched topic under On Demand Services, we have been able to add good options like bidding for a job and job availability by location. This helps the user search for a job or a professional by there home location making it easier for both the parties i.e. consumer and the service provider.

As in today's world it is not easy to find job and to opt out for any service. People do certain things to get the job and yet they are not happy about it. But this application Work In And Out will help them to search for jobs with their personal choice and also, this application will help people who wants there work to be done by skilled person like AC repair, gardening etc... The user needs to register for the application then login and opt for preferred service like he/ she wants to do a job, or he wants a work to be done and then follow the flow of the application. This application should help with the economic crisis the world is facing and help consumers.

II. LITERATURE SURVEY

This focused literature review is based on the methodology of Tranfield *et al.* (2003). In total, 11 databases were chosen to cover most scientific publications in the field of business and related areas as economics, and engineering: Thompson Reuters Web of Science, Academy of Management, Elsevier Science Direct, Taylor and Francis online, EBSCOhost Academic Search Premier, EBSCOhost Business Source Premier, Wiley online Library, InderScience Publishers, Informs, Sage, and Emerald Insight. The following search string was used to search the title, abstract, and key words to

IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 5, May 2021

DOI 10.17148/IJARCCE.2021.10538

find articles on on-demand services: “on-demand service” OR “on-demand service” OR “service on-demand” OR “service on-demand.”

Pritchett, Lant and Michael Woolrock (2002). Solutions when the Solution is the Problem: Arraying the Disarray in Development. Mimeo. Pritchett and Woolrock begin, to study delivery mechanism, and identified there has to be a bigger autonomy in order to provide more constructed power to the citizens. This is the same level that they and people agreed upon. The disagreement was declared on how they can improvise the services delivery to the consumer. Different group of people and research group has proposed different models and suggestion. They found out in their research that there is no correct answer for this problem and found eight solutions. That is eight different reforms for service delivery. They examine how the various options change the 6 flow of resources, services, information, decision-making and accountability. They also proposed implications.

The data and research mentioning the term “on-demand services” has been increasing. different of on-demand services, such as video on-demand (Kalvenes and Keon, 2008), cloud computing and SaaS applications (Hou *et al.*, 2018; Ma and Seidmann, 2015) and, more recently, ride opting services (Alemi *et al.*, 2018), have received greater attention in the literature. Further, on-demand services are more linked to access services (Lawson *et al.*, 2016; Schaefers *et al.*, 2016). In some cases, there is a clear link in all those concepts, but there is also a difference: sharing resources and giving access to services and goods do not meant they can be provided instantaneously on demand.
Most researches do not mention characteristics of On Demand Services but rather they show physical or empirical data on public reaction towards the service.

III. WORKING AND IMPLEMENTATION

This section of the paper consists of the services used to create the application and its workflow in real-time. Here we show the usability of the application in simple steps.

- PHP and HTML are used in React Native to create display page that is front end of this project.
- JS is used in NODE.js to create the back end that is the programming part of the project.
- MYSQL database is used to store the data of the customer that is login information, task information.

Workflow

This is the workflow for the application.

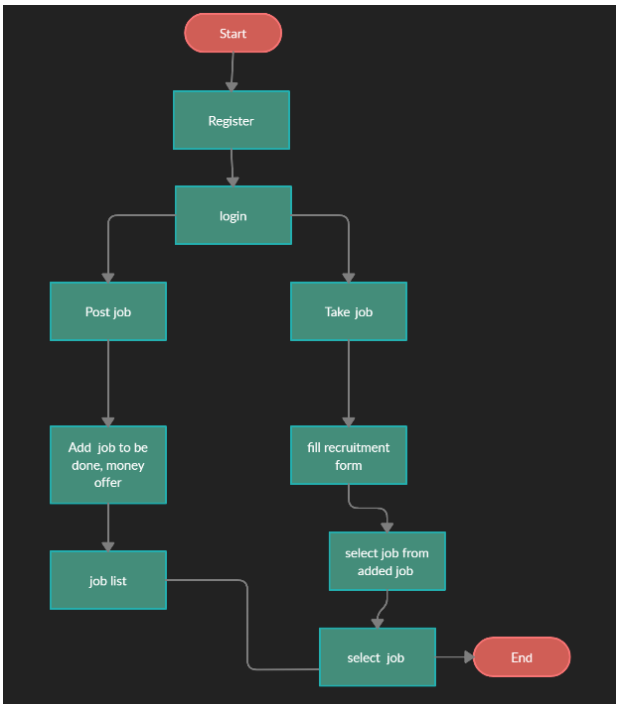

Fig1. Workflow of the application

IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 5, May 2021

DOI 10.17148/IJARCCE.2021.10538

Implementation

Application feature include job fare bidding and location services, help section for the user, option to choose between jobs. Discount options to the customer for opting for a job.

A. Registration: A new customer needs to register himself / herself to the application using a email id and password. Existing customer does not need to do the registration again to opt for its services.

B. Login: After successful registration user need to login into the application to move forward.

C. Choice: At this page user need to select type of service he wants to opt for between "I will work" or "I will Hire". Remember here one can choose only one option and cannot use same email id for both the things. If he wants to use both options, he needs to login with another email id.

D. Hire a service: If the user chooses to hire a professional for a job he needs to add details for the type of service he needs to add details like job title, job description, address where he needs the service and minimum and maximum amount of money he can offer for the job. Then the user needs to click post job for the job to be shown in the listings so that a service provider can select the job and chose to do or not basis on location and money offered for the job.

E. Work for a service: if the user doesn't choose above option of, I want to hire then he chooses I want to work. If he clicks this option, he has to enter what types of skills he has and what domain his services are connected to. After his short resume he will be added to the database as a worker and his identity is verified in a particular type of service. After successful verification he will be shown listings of jobs posted by the users who want some work to be done by professional. Then he has option to chose it from the listing and decide whether he wants to do it or not based on the location and amount offered.

F. Task manager: This screen is displayed to both the consumer and service provider of the application services. This screen shows tasks completed by the service provider and job he has accepted, and jobs pending. Similarly, the consumer screen shows the job he asked to be done for is completed or not and the money he needs to pay to the service provider.

Output Screens

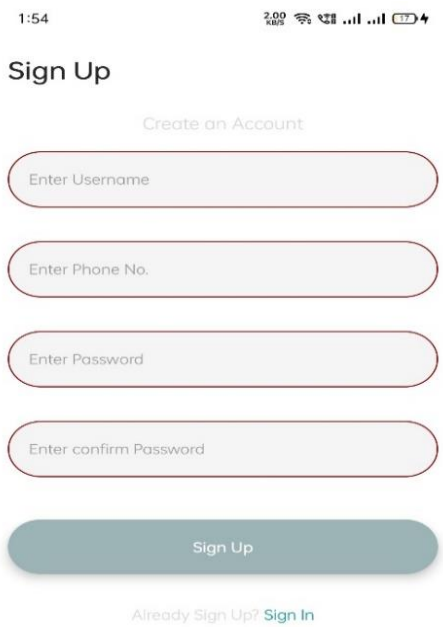

Fig. 2: Registration page

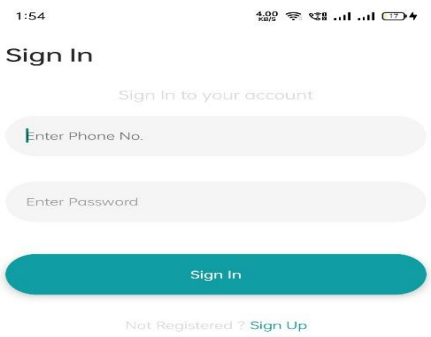

Fig. 3: Login page

IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 5, May 2021

DOI 10.17148/IJARCCE.2021.10538

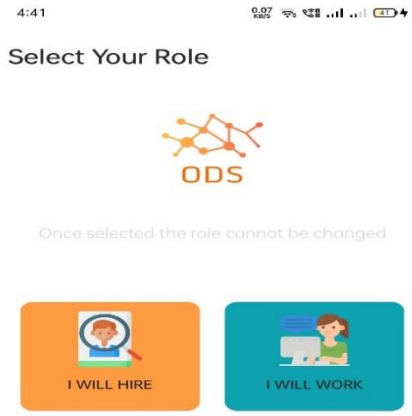

Fig. 4: Home page

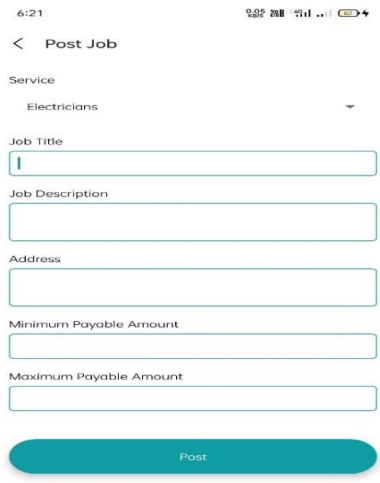

Fig. 5: Hire a service

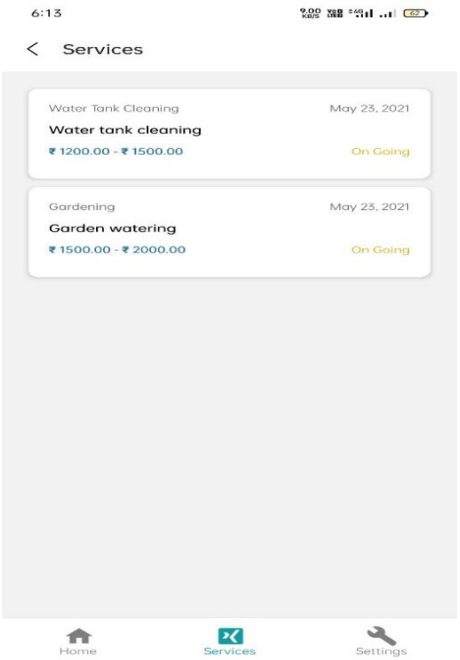

Fig. 6: Service listing

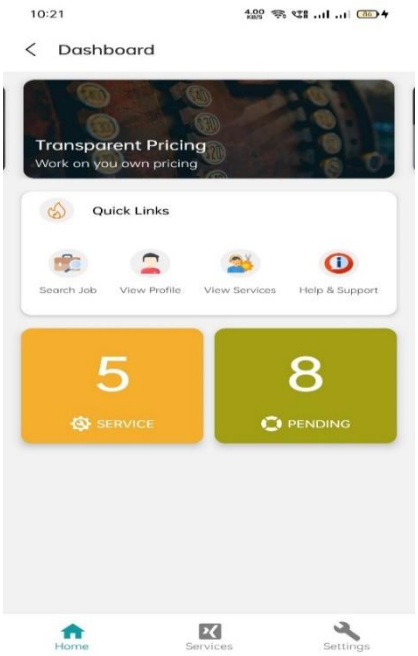

Fig. 7: Homepage

CONCLUSION

In current times people wants everything to be done on their mobile phones like using services, shopping, reading etc... It has reduced efforts to do most things and it has been more easy day by day. This application has numerous focal points but largely focus towards key features of hiring and providing services. With this application people need not to go out of their houses to ask for people to do their certain jobs. And, people searching for jobs does not need to roam in search for jobs. This application does it for them from their convenience by listing jobs and services at a single place.

IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 5, May 2021

DOI 10.17148/IJARCCE.2021.10538

It has good amount of security like privacy feature to protect their identity and data they upload. Now user just need to have an email-id and password to do certain things and that's set for them. This app will help the current crisis in terms of economic stability and bring ease and raise standard of living.

REFERENCES

[1]. Baines, S. (1999), 'Servicing the Media: Freelancing, Teleworking and 'Enterprising' Careers',New Technology, Work and Employment 2014, 1, 18–31.

[2]. Bergvall-Kåreborn, B. and D. Howcroft (2013), 'The Future's Bright, the Future's Mobile: A Studyof Apple and Google Mobile Application Developers', Work, Employment and Society 27, 6, 964–981.

[3]. Robbert-Jan van der Burg, Kees Ahaus, Hans Wortmann, George B. Huitema," Investigating the on-demand service characteristics: an empirical study, Emerald Insight ,2019, Vol. 30, Issue 6, pp1757-5818.

[4]. Benbasat, I., Goldstein, D.K. and Mead, M. (1987), "The case research strategy in studies of information systems", MIS Quarterly, Vol. 11 No. 3, pp. 369-386.

[5]. Chen, P. and Wu, S. (2013), "The impact and implications of on-demand services on market structure", Information Systems Research, Vol. 24 No. 3, pp. 750-767.

[6]. Hagiu, A. and Wright, J. (2015), "Multi-sided platform", International Journal of Industrial Organization, Vol. 43 No. C, pp. 162-174.