

ALLOCATING DAY TO DAY WORK FOR WORKERS THROUGH CONTRACTORS USING AN APP

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Abstract: *Now a days daily wage workers are stuck in a deep crisis. In our daily life workers are facing a situation that they are standing for works at early mornings in market to get work and the contractors are having difficulties in finding workers for day today work. To avoid this crisis faced by workers and contractors, here is a project to develop an app. This app lets the people know the daily wage works which are around them without waiting for some manager or contractors to pick them from the crowd. This app lets the contractors to post their daily wage slots to hire the workers. The requirements needed for the suitable job is mentioned by the contractors. All the required data is given in the app. we use XML and JAVA to build this app.*

Keywords: *Contractors, daily wage workers, Android application, XML and JAVA*

I. INTRODUCTION

Labour in India refers to employment in the economy of India. Over 94 percent of India's working population is part of the unorganised sector. Like migrant workers, contract and casual labourers. The unorganised sector has low productivity and offers lower wages. In India below poverty families where all working age

members have only worked the unorganised sector throughout their lives. In India, the unemployment rate measures the number of people aged 15 and over actively looking for a job as a percentage of the labour force. At 7.30 am every morning, thousands of daily wage workers gather in labour street corners to solicit work from labour contractors. Nearly 150 other workers – carpenters, masons,

painters, construction helpers – each trying to get noticed by contractors who may have jobs to offer for the day. But only a handful of them end up getting work. By 11 am, the remaining workers disperse, dejected and desperate for money. Though his daily wage from Rs 400 to Rs 500. He spends most of his income on feeding himself and paying rent (Rs 1,500 a month), and has very little left to send home to his family. Labour used to get at least 20 days of work a month, but now gets just seven or ten days."Day labor is work done where the worker is hired and paid one day at a time". Here our concept is providing work daily and the building contractors get work done easy by the worker and also save their time by not waiting in the streets for contractors for their daily work. Our objectives are we need Smart phone, App. To solve this problem we are developing a mobile application. So that in this app contractors can communicate with labours for work[1]

II. LITERATURE SURVEY

Hiring is one of the important challenges in the context of online labour marketplace. Unlike traditional hiring, where workers are hired either as a full-time employee or as a contractor, hiring from online marketplaces are done for individual jobs

of short duration. Since the time of Covid and the lockdown, there has been a severe crisis of employment opportunities in local labour markets. In a three-month extensive field study undertaken by a research team at the Centre for New Economics Studies, OP Jindal Global University, have documented the stories of over 200 daily wage workers through a randomised survey in mazdoor mandis in Lucknow and Pune. Getting work for even two days in a week is excruciatingly difficult for the daily wage workers. Daily wages too, for any work possible, have dipped by half. There are a lot of websites like "helper4u.in", "www.bookmybai.com", "workindia.in", etc for hiring temporary workers or daily wage workers where the daily wage workers can be hired by anyone. The social phenomenon of short-term hiring of freelancers in crowdsourcing platforms is increasing very rapidly to achieve flexibility and cost savings. Chilton et al. [2] found that amount of time spent by a worker for selecting a task is comparable with the time spent on working on the task. Scnitzer et al. [3] conducted a survey to understand the kind of recommendation workers prefer while performing tasks on a micro-task platform. Difallah et al. [4] developed a system which uses social networks to build the worker's preference

for worker-task matching. In supply driven marketplaces each freelancer advertises his/ her skills and capabilities with confidence, add details of his experience, etc., as services to attract clients and compete with other professionals in the pool. Clients will search and choose their favorite one from the services.

III. EXISTING WORK

1) Shramik Bandhu



2) Labour Hire app



PROBLEMS OF THE EXISTING SYSTEM

It is a application that gives work for the labour. It suggest the companies to the

worker so that worker will have to go and interact with that company for work.



IV. LITERATURE SURVEY

1)Title: Labouradda Description:

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<https://www.labouradda.net/who-we-are>

2)Title : Shramik Bandhu Description :

“Shramik Bandhu” – an employment platform for the skilled and unskilled workforce in India. It offers categories across manufacturing, construction, hospitals, Garments and leather, power and

steel, construction, and automobile. Worker skills include Carpenters, Masons, Electricians, Plumbers, Domestic help, gardeners, drivers and more.

<https://www.expresscomputer.in/news/free-employment-app-launched-to-help-migrant-and-workers-findjobs/63683/>

3) Title : Labour Hire app Description :

Labour Hire app is a mobile for application for construction industry's to hire workers.

<http://labourhireapp.com/sectors/construction>

V. PROPOSED WORK

But our application provides communication between worker and contractor so that they contractor can directly interact with these workers.

It is going to be a complete website that can be used by the daily wage workers to find a job and the employers (The customer or the user who is looking for an assist) who can hire the worker. The website primarily gives two options: 1) To login as a worker 2) To login as an employer All the daily wage worker has to do is to create an account by using their email ID and password and undergo an Aadhaar verification process for security reasons, provide their details such as Name,

Location, Age, Phone number, Religion, Photo, Gender, comfortable languages, experience, etc. The employer can create an account using their email ID and password and undergo an OTP verification process either through the mobile number or their email address. Once the employer is logged in, he/she can filter the available workers based on their requirement of Roles (Such as Cooks, maids, baby sitters, senior citizen care, Iron wala's, Plumbers, painters, carpenters, mechanics, etc.), Language (Based on the language they are comfortable with), Location, Age, Gender, Experience, etc. Both the Employer and the worker can provide their vaccine certificates and their covid negative certificates accordingly. Once the worker is chosen, the user gets an option to communicate with the worker either through the website or through their contact number and make the negotiations. Based on their understandings and preferences the worker can be either hired for a temporary period or as a fulltime employee.

MODULE DESCRIPTION

User Module: • Login/Register :Users (Buyers/Sellers) can register themselves in order to get into the application.

• Profile Verification: For profile verification, users will get the profile

verification link on the registered mail id. After verifying the account the users can get into account frequently to sell and buy things.

- Add Personal Details: Users can add their personal details where the mail id and phone number would be mandatory
- Customer Support: Users can take support related to the services from the admin. Admin Module
- Login : Admin can log in to manage the various things such as operations, product,users and more.
- Dashboard: Dashboard should be user-friendly, and easy to use so that the admin can easily track the various activities running in the application.
- Customer Profile Verification: Admin can verify the profile of workers and contractors.
- Cloud Storage Integration: Admin can manage a large amount of data over the cloud storage with ease
- Reporting and Analysis: On dashboard admin will be able to see analytic reports of ads posted on app. ● Push Notification: Admin can send a notification to the users.

SYSTEM ARCHITECTURE

The architectural design concept that focuses on the different components of the system and unifies them into a coherent complete whole as shown in figure 1. Communication across the different components was achieved using the three-tier architecture.

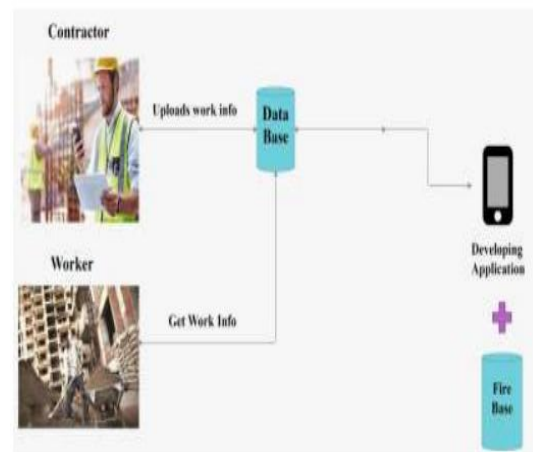


Fig.1 System architecture

ALGORITHM DESIGN

Step 01: User selects whether he is Worker or Contractor.

Step 02: Based upon the user category the login page will appear.

Step 03: If the User login as the Contractor then the contractor Dash board will open . It contains options like Create work, View allocated works and Logout.

Step 04: Contractor can post the work details by clicking on the Add Work button and he can also check his posted work details. He can Update and Delete the work.

Step 05: If the User login as worker, then he has to select the type of the work and work location.

Step 06: After searching the work details and if the worker is willing to work, He can directly send Willing Message to contractor along with work details.

Step 07: Contractor receives the willing message from the worker



Fig.3 Signup page.

VI. RESULTS



Fig.2 sign in page



Fig.4 Document upload page



Fig.5 work details



Fig.7 worker selecting work

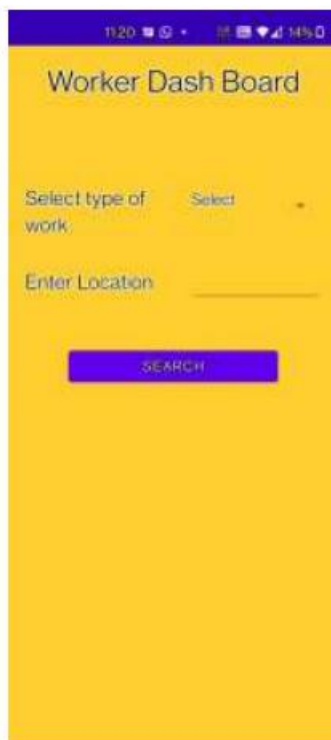


Fig.6 worker dashboard



Fig.8 worker work details

VII. CONCLUSION

This paper provides a comprehensive review on developing “Daily Wage Workers” Mobile Application. It is an important aspect for providing the Smart Solution for Daily wage workers and Contractors. In this application it is possible for the Contractor to provide work information every day. The users can check the details of work at any time and from anyplace which makes it user friendly. This application can play a crucial role in upcoming days and make significant impact toward the development of reliable Work Management System.

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