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# Migrant Labour Application Using .Net Framework

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**ABSTRACT:** The objective of this project is to develop an automated system/ framework which build a communication path and strengthen the customer-worker relationship. This system also helps to reduce the time and effort in searching workers efficiently. The main objective of migrant labour app is to help all the unemployed proletariat workers to get connected with companies/ MSME's across sectors such as construction, hotels, manufacturing and transportation who provide them an opportunity to get employed.

**KEYWORDS:** Migrants, Customer, Workers Union, Android Studio, Website.

## I. INTRODUCTION

In today's world mobile and mobile application plays an important in day to day life. Almost everything is done on mobile application, considering this we have created a mobile application to hire a labour who work on daily work and wages. As we know this people is an important role in suburb area. Basically using our application user can hire a labour from nearby area. System will allow workers to register themselves with the application at any time. Registered worker information is processed and presented to customer. . This action plan will not only rejuvenate those who have lost their jobs during corona virus crisis, but also make workforce readily available once the economic activity restarts. Forced reverse migration and shutting down of various small and medium sized enterprises left a large set of skilled and semi-skilled workers without job. In order to resolve this issue and make an opportunity for employment the migrant labour app will match migrant labourers with industries looking for labourers. These workers are our biggest asset that does most of the useful and necessary workforce, they contribute more in taxes and it boosts the working age population. So it is necessary to connect the gaps between migrant labourers and the industries

## II. PROBLEM STATEMENT

Daily wage workers are workers who earn their living day-to-day from work in construction sites or industries to people owning salons or carpenters masons etc The International Labour Organization (ILO) predicted that due to lockdown about 400 million workers would be poverty stricken. Maharashtra has the largest number of migrants, according to 2011 Census of India. Recognizing the limitations of traditional offline efforts to address these seemingly intractable challenges there is a terrible need of a digital platform that can enable migrant workers to access the specific information they need to make choices at different stages of the migration process and assert their rights.

### OBJECTIVE:

- To increase connectivity, outreach and connect the gap of migrant labourers with industries.
- To have a fair and transparent recruitment with respect to payment, location and working conditions.
- A step towards building a framework or an infrastructure to avoid such a major economic collapse as in the wake of COVID-19.

### III. EXISTING SYSTEM

Recruitment is done manually. These tasks are time consuming. Online Recruitment system is very convenient because in the manual system there are lot of difficulties for migrants, this includes having to move from one city to another, deceptive practices by recruitment agencies, underpayment and poor and unsafe working conditions at their site of employment.

### IV. PROPOSED SYSTEM

Migrant Labour App project which relates to HRMS department will maintain entire recruitment service and provide services for job vacancies. This project is a combination of two languages which are Java used to develop the android application and Asp .Net used for web portal for admin. In our case, the worker unions serve as the admins because of their huge outreach and to make sure that the workers are not exploited. We also take into account that a large part of our target demographic might not have access to smartphones, hence we are also in midst of developing a website which replicates the functionality of the app such that it can be accessed by anyone having a data connection and also drive customer traffic so as to facilitate more jobs for the labour.

#### Steps involved:

This project allows industry to post job vacancies with respect to the subject on which they are looking for employees and job seekers need to log in to their account with given login and password and check job vacancies. Job seekers can check their job application status from their account. This project will provide scope for future development. The proposed system is designed to eliminate all the drawbacks of the existing labour management system. The system shall be responsible for maintaining information about labourers, thus their personal profile.

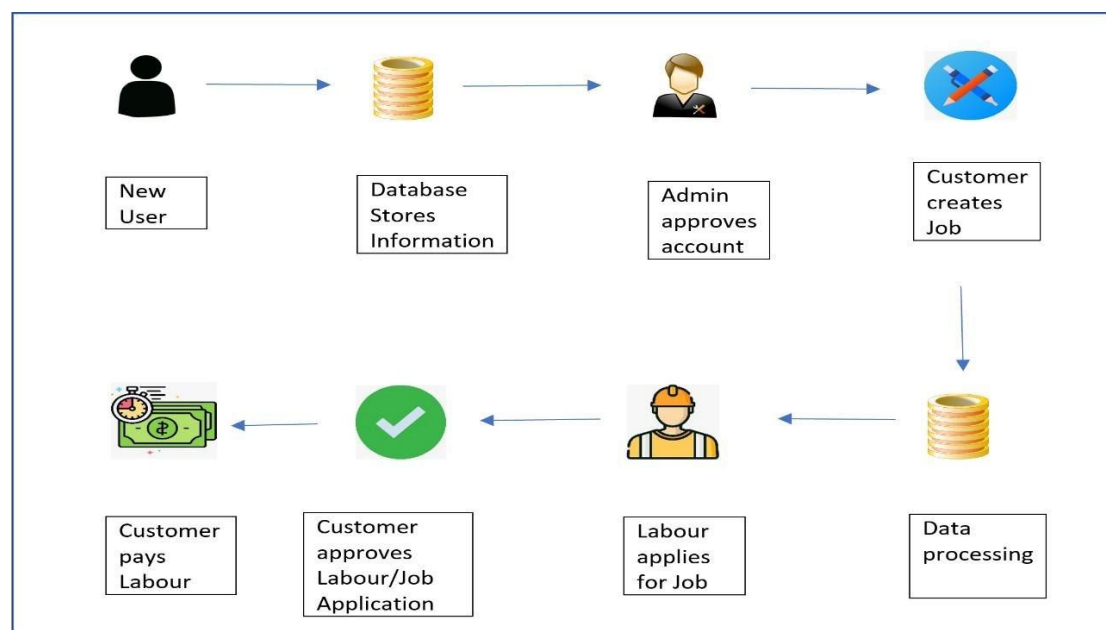


Fig 4.1 : Proposed System Diagram

The objective of Migrant Labour App is designing a scheduling system for a work centre. Scheduling is such a tool with which the process of intimating activities and notifications will be easy and even online in the organization where

it is installed. But these task of scheduling the different activities if manually done whether they may be personal or official is time consuming and also may lead to confusion if not properly scheduled. Migrant Labour App is a distributed application, developed to maintain the details of employees working in any organization. This software project has been developed using the powerful coding tools of HTML, CSS and PHP at Front End and Microsoft Sql

Server at Back End. The software is very user friendly. This version of the software has multi-user approach. As the App has three main levels which are as

- i. Admin login.
  - ii. Labour login.
  - iii. Industry login.
- Firstly the Labour/Customer has to login with their basic credentials like E-mail Id, Password, Phone Number.
  - The Admin has to approve/disapprove the registered customers by seeing all the details provided by them.
  - As the admin approves the details the labour can now view the job that he/she is eligible.
  - After applying for the job that he/she has applied for, they can view that on their own Dashboard, share their valuable feedback that will be notified by the admin only.
  - After getting the approval by the admin, registered customer can now start posting the job by specifying the criteria like vacancy, skills required, location, etc.
  - After Posting the jobs the industry can now view all the labour who have apply for that particular job as well as the industry also view the details of the labour, after viewing the application the company can send their feedback which is notified by the admin.
  - After the job is done, the customer can pay the worker through cash or just use the transaction API module inbuilt in the app.

## V. METHODOLOGY

### A. Software used:

#### a. Visual Studio Code:

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages (such as C++, C#, Java, Python, PHP, Go) and runtimes (such as .NET and Unity). Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

#### b. Android Studio:

Android Studio is the official<sup>[7]</sup> integrated development environment (IDE) for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development.<sup>[8]</sup> It is available for download on Windows, macOS and Linux based operating systems or as a subscription-based service in 2020.<sup>[9][10]</sup> It is a replacement for the Eclipse Android Development Tools (E-ADT) as the primary IDE for native Android application development. The following features are provided in the current stable version:<sup>[16][17]</sup>

- Gradle-based build support
- Android-specific refactoring and quick fixes
- Lint tools to catch performance, usability, version compatibility and other problems
- ProGuard integration and app-signing capabilities
- Template-based wizards to create common Android designs and components
- A rich layout editor that allows users to drag-and-drop UI components, option to preview layouts on multiple screen configurations<sup>[18]</sup>



c. SQL Server:

Microsoft SQL Server is a Structured Query Language (SQL) based, client/server relational database. Each of these terms describes a fundamental part of the architecture of SQL Server.

**DATABASE:** A database is similar to a data file in that it is a storage place for data. Like a data file, a database does not present information directly to a user; the user runs an application that accesses data from the database and presents it to the user in an understandable format. A database typically has two components: the files holding the physical database and the database management system (DBMS) software that applications use to access data. The DBMS is responsible for enforcing the database structure, including:

- Maintaining the relationships between data in the database.
- Ensuring that data is stored correctly and that the rules defining data relationships are not violated.
- Recovering all data to a point of known consistency in case of system failures

d. .Net Framework Class Library:

The .NET Framework class library is a collection of reusable types that tightly integrate with the common language runtime. The class library is object oriented, providing types from which your own managed code can derive functionality. This not only makes the .NET Framework types easy to use, but also reduces the time associated with learning new features of the .NET Framework. In addition, third-party components can integrate seamlessly with classes in the .NET Framework. In addition to these common tasks, the class library includes types that support a variety of specialized development scenarios. For example, you can use the .NET Framework to develop the following types of applications and services:

- Console applications
- Scripted or hosted applications.
- Windows GUI applications (Windows Forms).
- ASP.NET applications
- XML Web services.

Hardware used:

a. Laptop or PC

- i3 Processor Based Computer
- 1GB RAM
- 5 GB Hard Disk

b. Android Phone or Tablet

- 1.2 Quad core Processor or higher.
- 1 GB RAM

## VI. RESULTS

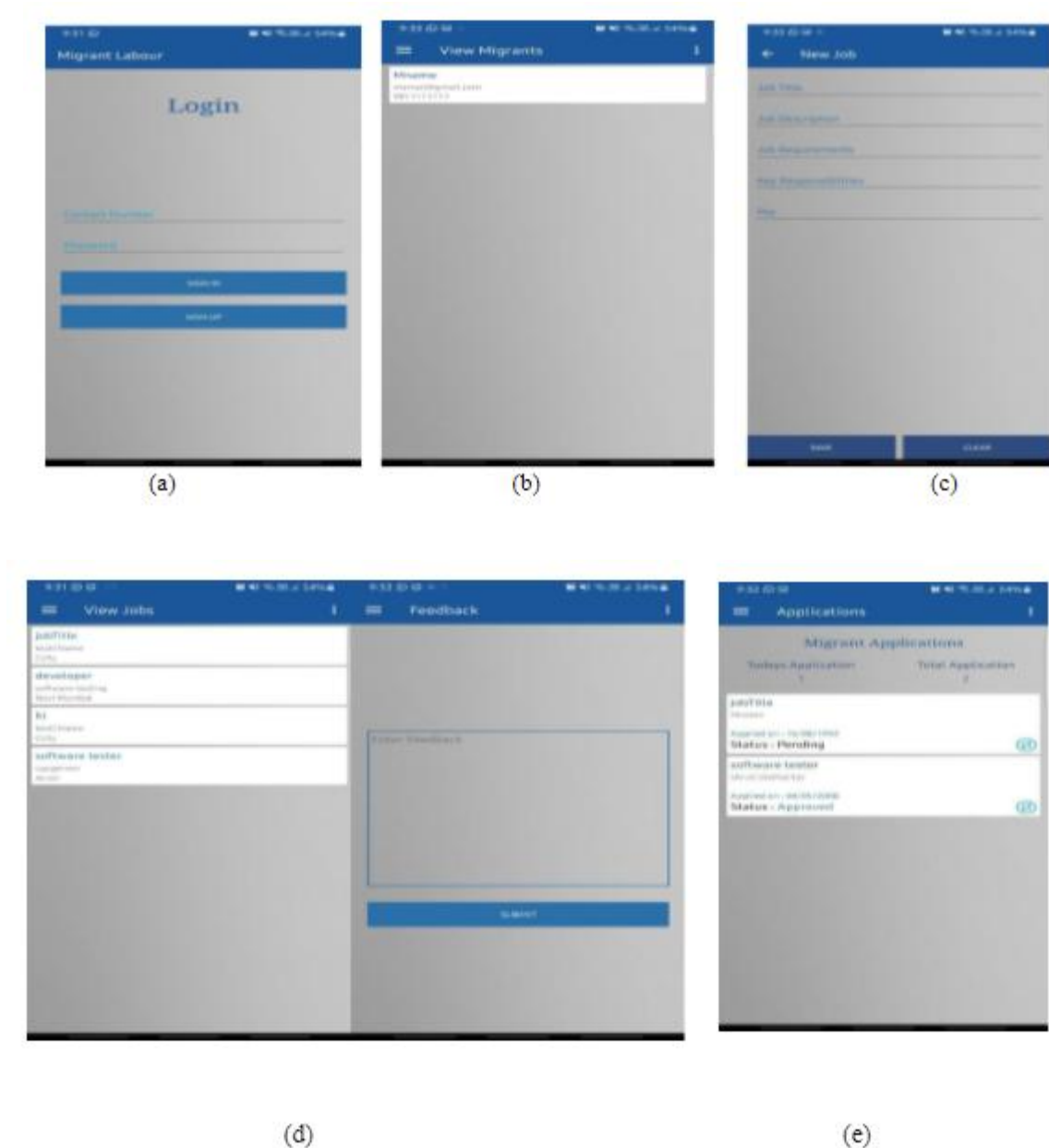


Fig 6.1(L-R) : (a): Login Page (b): Migrant Page (c): Job Post Modal (d): View Job Page and Feedback Page (e): Labour App Homepage

## VII. FUTURE SCOPE

During the time we spent working on the project we came upon some findings according to which we understood there was still about 30% of our target population that might not have access to smart phones so to address these issues we have been trying to replicate the process of the app into a website which would be accessible to anyone labour or customer as long as they have a data connection it will also have better UI design to attract a diverse set of people to the website and also we are trying to inculcate an Aadhaar based welfare system which would notify the labours to any and all government policies beneficial to them.



### VIII. CONCLUSION

In conclusion we have come to understand that a proper architecture is really important for the low income, daily-wage worker communities so as to make sure the same conditions don't prevail as they did in the lockdown for the COVID-19, the union also plays a major part because of its huge out-reach in our target population and as it administrates over the application and makes sure that it is used for the welfare of the workers.

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