DIGITAL TRANSFORMATION FOR SOCIAL CHANGE

Managing informal workers

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ROLE OF EACH MEMBER:

AJITH ARUN: FRONTEND DEVELOPMENT

ABEL KOSHY: FRONTEND DEVELOPMENT

ALAN LEEMON: INNOVATIVE LEAD

APARNA A B: UI DESIGN

ANISHA ANILKUMAR: BACKEND DEVELOPMENT

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DIYA DENNY: BACKEND DEVELOPMENT

TARGET AUDIENCE:

Unskilled labourers from rural areas in the age group of 20-40

What target audience need?

Learn a new skill

Sell their skill

How the platform works?

- When a worker registers on this platform, first we ask for the skills they have or they need to learn.
- Based on this skillset which the worker specified, he/she would automatically be assigned to an online community.

- When a customer needs a service, he would put up a request.
- Workers based on locality decide whether they need to take up the request.
- So when a worker needs an apprentice for his/her work he/she could look at people who have registered to learn that skill.Apprentice workers can learn that skill from a skilled and experienced one on-site

Platform Users:

- Customer
- Unskilled worker
- Skilled Workers

Frameworks used:

- React Frontend
- Database - MongoDB
- Implement using MERN stack

1

UI Design

https://www.figma.com/file/HcrXyCTT59O9SaQldWtu1F/jobit?node-id=0%3A1

2 Front End

What was done:

- Environment: React
- Using React, customer and worker interfaces were developed based UI components.
- Login page, signup page, job listings page, job posting page

Description

- Initially the user has to select whether he/she has to signup as a customer or as a worker.
- The customer after login will be sent to the post listing page where previous posts of the customer can be seen. Customer can also create new post by using a button at the bottom of the page.
- Skilled worker will be taken to a job listing page where jobs related to their skillset will be updated.

- Unskilled worker will be taken to a job listing page where jobs to work as an apprentice will be updated.

3

Backend

What was done:

- Enviornment: Node js, Mongodb
- Used Express as server framework for Node js
- Registration pages for customer, skilled and unskilled labourors
- Login page
- A page for customers to post the requirement

Registration pages for customer included:

- First name
- Last name
- Email
- Location
- Contact

Registration page for skilled and unskilled labour:

- First name
- Last name
- Skill
- Email
- contact

Post requirement page:

- Title of the job
- Description of the job
- Number of workers needed

Description

- The customer puts up the post when a job is needed to be done. The post contains the job description and number of workers needed
- The post gets saved under the customer id
- The skilled worker is able to view the post under this customer id and if selected the post gets removed from the list of posts
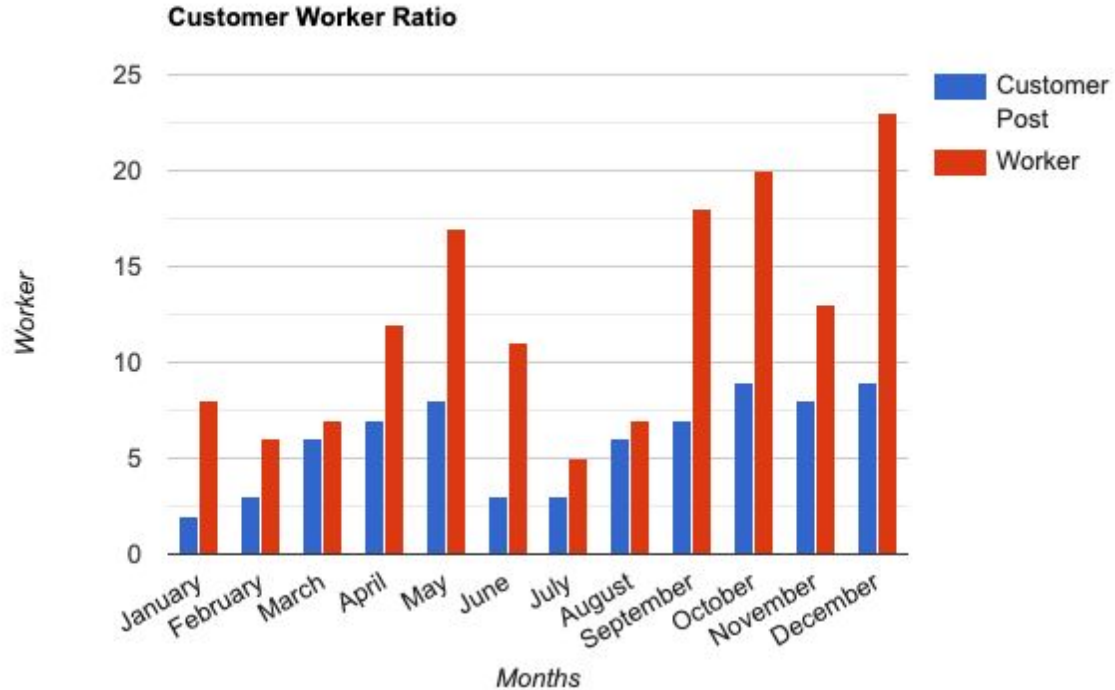
FUTURE INNOVATION

- Customer-Worker Ratio
- Job Prediction based on Locality

Customer-Worker Ratio

- From the data we can collect , we can develop a model that can analyse the customer-worker ratio of each months.
- The model then will be able to predict the minimum and maximum number of workers wanted to ensure the smooth flow of running of the app.

Customer-Worker Ratio

Job Prediction Based on Locality

- A model that can predict the upcoming jobs that will be available in the future in a particular locality is created with the data we collected.
- A worker can use this model to get probabilities of how likely that a particular job will be available at a particular locality and can migrate to that place if wanted.

THANKYOU