Software Requirements Specifications Document

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Brief Problem Statement

- Most online job portals cater to white collar jobs. The few that cater to blue collar jobs suffer from either of these or some combination of these issues -
  - too technologically complex for the average blue collar worker to understand and use effectively
  - available only in major languages like English.
- For employers looking to hire local semi-skilled blue collar workers, it is extremely tedious and difficult for them to get interested blue collar workers.
- The "Casual Labour Job Finder" aims to solve all these issues by providing a portal that allows Job posters to post current vacancies available and providing Job seekers a toll free number, which they can call and give their details in their vernacular and get to know about current vacancies available near them.

Users Profile

- **Job Poster**
  - **Intended Demographic**: Person/Group looking to hire semi-skilled workers. For example, business owners, construction companies,etc.
  - **Familiarity with Software**: Has enough familiarity to use and navigate websites. Knows enough English to use the website
  - **Level of Authority:** Should be able to employ people in the organization.
  - **Pain Point:** Has to undergo a tedious and lengthy process to hire workers.
  - **Product Preference**: Prefers to have an all-in-one portal where they enquire about all potential blue collar workers information.
  - **Intended Solution:** Shall have access to a website, through which they can post about job vacancies and get contact information in a single place.
- **Job seeker**
  - **Intended Demographic**:Semi-skilled; seeks blue collar jobs. Only knows to speak in his vernacular
  - **Familiarity with Software**: Finds it difficult to understand the complexities of technology
  - **Pain Point**: Seeking favorable jobs is difficult due to language and technological barriers
  - **Product Preference**: be able to enquire about available job vacancies in his vernacular in a way that is technologically feasible
  - **Intended Solution**: The job seeker should be able to call a toll-free number, give his details in his vernacular and get a list of all available vacancies in the same language.

Project Modules

R1 denotes Release 1. R2 denotes Release 2.

1. User Management **(R1)**
    a. Job Poster
        i. Job Poster Registration
        ii. Job Poster Login
        iii. Manage account
    b. Job Seeker
2. Jobs **(R1)**
    a. Posting new job
    b. Manage previously posted job
    c. Manage job responses
3. Pipeline **(R2)**
    a. Vernacular Audio Interaction
        i. Audio Play Module
        ii. Audio Record Module
    b. Vernacular - English Translation
    c. English - Machine Query Translation
    d. Query Processing and Response
        i. English to Machine Query Translation
        ii. Query Processing
        iii. Machine Query Response to English Translation
    e. Response Recording
4. Customer Support **(R2)**
    a. Feedback
    b. FAQ

Detailed Description of Modules

1. User Management

This module shall be used by users themselves to handle their information. It contains the following sub-modules:

a) Job Poster

This shall handle all the information of the job poster. It contains the following sub-modules:

i) Job Poster Registration

The job poster shall be able to register themselves as a user through this module. It shall Input their basic details to generate them as a user on the platform.

ii) Job Poster Login

The job poster shall be able to login themselves to the platform through this module. They can use their set username and password to login.

iii) Manage Account

This module shall enable the user to manage their account. They can view their homepage, edit their profile and set preferences.

b) Job Seeker

This shall handle the information of the job seeker. When the job seeker calls the toll free number, this module shall be used to save their information in the database.

2. **Job Postings**

This module shall be used to handle posting jobs and vacancies by the job poster. It contains the following submodules:

a) **Posting a new job**

As and when a new vacancy opens up, the job poster shall be able to post about it on the website. Upload details will include relevant information about the job like location, duration, job type, pay, work hours etc

b) **Manage previously posted jobs**

This module will enable the job poster to view their previously posted vacancies and manage them. They can edit the specifications of the job as per their need

c) **Manage Job Responses**

The job poster shall be able to view all job seekers' names and their phone numbers that show an interest in filling the vacancy. They shall also be able to accept or reject a particular response based on their individual judgment.

3. Pipeline

a) **Vernacular Audio Interaction**

The job seeker shall be able to call the toll-free number and talk in their vernacular. The machine that picks up the phone also shall respond back in the vernacular

   i) **Audio Play Module**

   This module shall be used to talk to the job seeker (Eg : Ask them about their contact details and job specifications like job type)

   ii) **Audio Record Module**

   This module shall be used to record the responses of the job seeker.

b) **Vernacular-English Translation**

With the help of the provided APIs , the audio input received from the job seeker in vernacular must be translated to English and the Query response in English should be converted back to audio.

c) **Query Processing and Response**

   i) **English to Machine Query Translation**

   The English translated details shall be converted to machine understandable query.

   ii) **Query Processing**

   The Machine understandable query shall be processed by fetching relevant job details from the database

   iii) **Machine Query Response to English Translation**

   The query response shall be converted back to English.

d) **Response Recording**

The job seeker shall be able to respond by selecting a vacancy and this interest shall be notified to the job poster

4. Customer Support

a) Feedback

i) For the Job Poster
The job poster shall be able to post his feedback on his website.

ii) For the Job Seeker
The job seeker shall be able to convey his feedback in their vernacular by calling the toll-free number

b) FAQ
The job poster shall be able to get frequently asked questions and their answers on the website.