
UNITED
GEN

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# INTRODUCTION


In contemporary society, there's confusion between intersex and transgender identities. Intersex individuals don't fit conventional sex binaries due to differences in genitals, chromosomes, or reproductive organs. In contrast, transgender people have a gender identity that differs from their sex assigned at birth. In India, derogatory labels like "chakke" or "hijre" are sometimes used for intersex individuals. Many face marginalization, highlighting the need for support and opportunities. With this imperative in mind, our proposed initiative envisions the creation of a website tailored to the unique needs of these individuals. This website serves users by providing information and answering their queries to assist them.

# PROBLEM STATEMENT

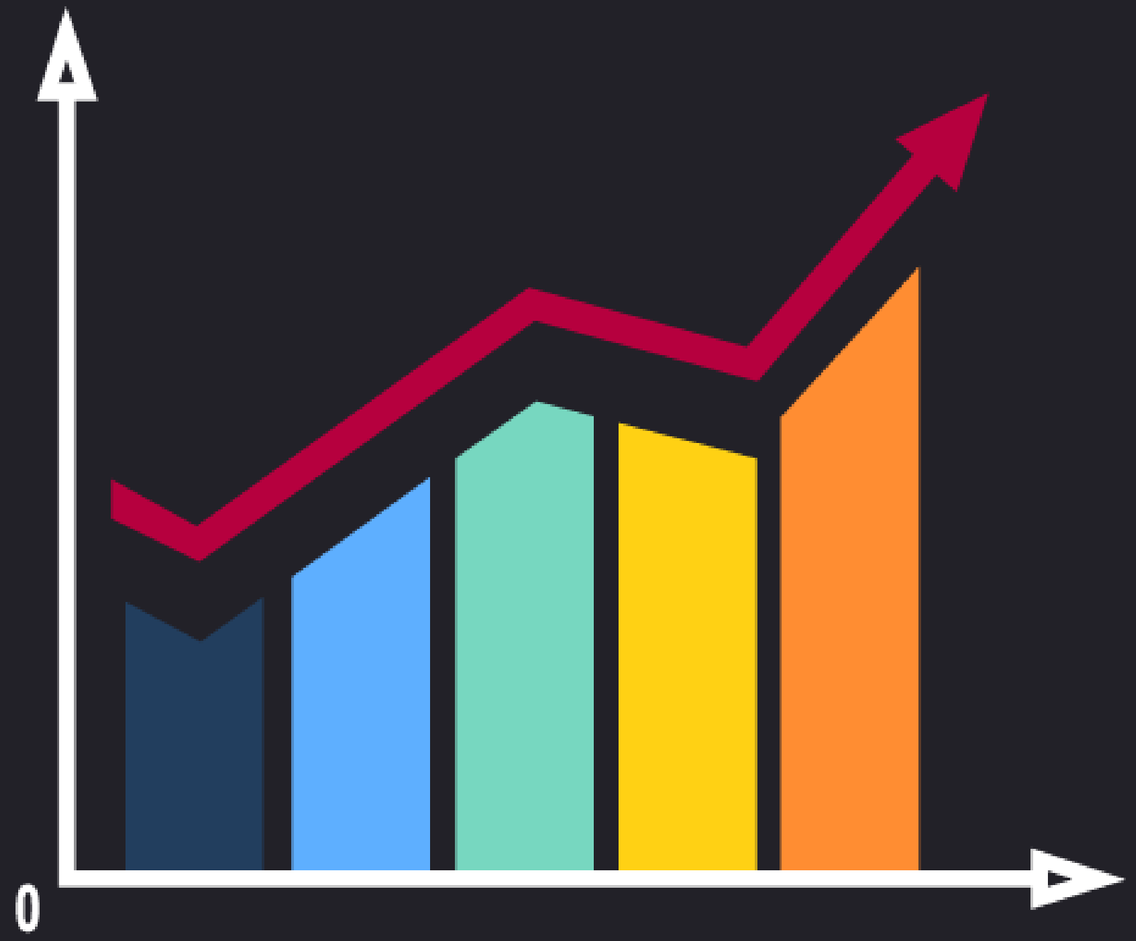
The solution is to create a platform bridging the transgender and intersex communities. Focused on transgender issues, it aims to promote inclusivity, raise awareness, advocate for equal rights, offer support services, foster understanding, and create a more accepting society. Specific goals vary based on the project's scope, be it educational, advocacy-driven, or support-oriented.

# SOLUTION

The problem statement behind a project centered on the discrimination against intersex inferiority and unawareness, typically stems from a desire to address inequalities, promote social justice, amplify voices that are often marginalized, foster inclusivity, and create a safer, more supportive environment. It focuses on working towards a more equitable society where everyone can thrive regardless of their gender identity

# PREVIOUS PROGRESS

- Research and Exploration on website design and fuctionality.
- Implementation of website front-end.
- Implementation of problem form with backend NodeJS server.
- Initialized MongoDB instance.



# CURRENT PROGRESS

- Created Python web server using FastAPI
- Inititated Ollama (LLama2) model for generation.
- Created tools and AI agents.
- Connected both Python Web serever and NextJS Frontend.

# PROMPT ENG/RAG PIPELINE

Prompt engineering refers to the process of designing and refining prompts or inputs given to artificial intelligence (AI) systems, particularly language models like GPT (Generative Pre-trained Transformer). It involves crafting specific instructions or queries that guide the AI model to generate desired outputs or responses. Prompt engineering is important for AI engineers to create better services, such as chatbots that can handle complex tasks like customer service or generate legal contracts. Making sure that generative AI services like ChatGPT are able to deliver outputs requires engineers to build code and train the AI on extensive and accurate data.

# IMPLEMENTING PROMPT ENGINEERING

A chatbot designed to provide information about transgender and intersex people would need to be carefully crafted to ensure accuracy, sensitivity, and inclusivity.

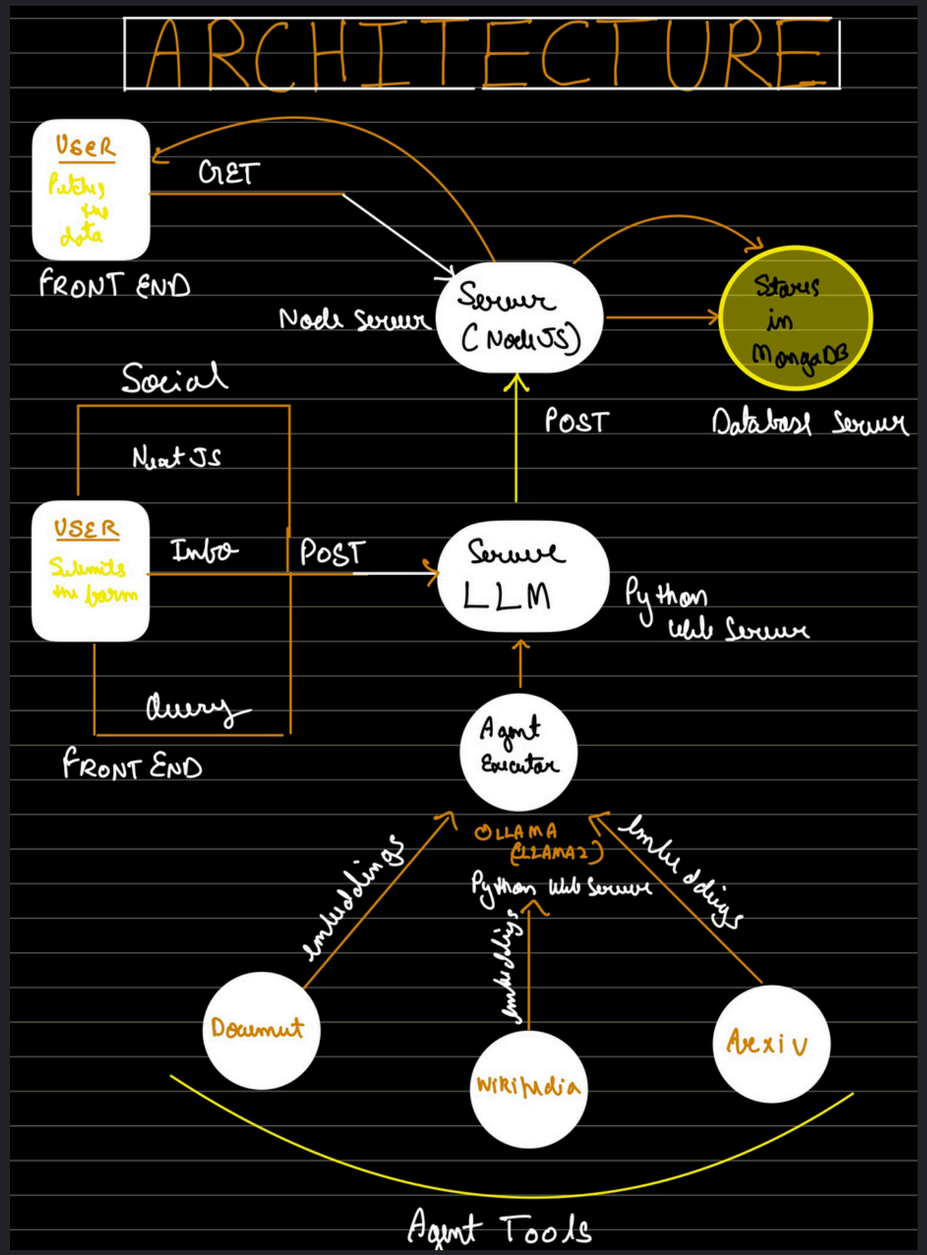
The Chatbot includes the following features:

- **Awareness:** The chatbot will offer comprehensive educational content covering a wide range of topics related to transgender and intersex identities, including terminology, gender identity, gender expression, transition processes, legal rights, healthcare options, and advocacy resources.

# IMPLEMENTING PROMPT ENGINEERING

- **Supportive Guidance:** The chatbot offers supportive guidance and resources for individuals questioning their gender identity, exploring their gender expression, or seeking support for themselves or loved ones. It provides referrals to mental health professionals, support groups, helplines, and other relevant services.

- **Anonymous Interaction:** Users can interact with TransInfoBot anonymously, without the need to disclose personal information. This promotes privacy and confidentiality, encouraging individuals to seek information and support without fear of judgment or stigma.




# SYSTEM DESIGN / ARCHITECTURE

# WORKING PRINCIPLE

(i) Input Gathering: Users provide input in three different forms:

·Queries: Direct questions or search terms.

·Information: Data or details they wish to share.

·Social Experiences: Insights or experiences shared by other users.

(ii) Message Compilation: These inputs, along with any accompanying messages, are compiled into a cohesive format.

(iii) Utilization of Language Model: The compiled message is then fed into a Language Model (LLM) for processing. This LLM likely performs tasks such as natural language understanding, contextual analysis, and generating appropriate responses.

# WORKING PRINCIPLE

(iv) Data Sourcing: The app utilizes OLAMA (Open-source Language Model Aggregator), which integrates various sources of information including:

·Wikipedia: A vast repository of knowledge on diverse topics.

·Google Search: Provides real-time and comprehensive search results.

·Reddit: Offers user-generated content and discussions on a wide range of subjects.

(v) Information Retrieval and Analysis: OLAMA fetches relevant data from these sources based on the input message. It then analyzes this data to extract meaningful insights and up-to-date information.

(vi) Response Generation: The processed information is used to generate a response to the user's query or input.

# INDIVIDUAL CONTRIBUTION

PRANJALI SHRIVASTAVA - UI UX

SOUMYA NAIDU - Research & Exploration

AARIDHI VISHWAKARMA - UI UX

KETAN SHARMA - Website / Research Paper Compilation

ESHITA KHARE - Research & Exploration

R.MALLIKA - Research Paper Compilation

AYUSH VERMA - Website

PRIYANSHI JUNEJA - PPT, Report & Content

# THANK YOU!