



KRITHOATHON 2.0



CRAFTING TOMORROW'S WORLD

Presented by
KRITHOMEDH VNRVJIET

THE SHIELD

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PSID - KR102-E Kisaan: Empowering Farmers Through Technology

E Kisaan is a digital platform for Indian farmers, offering real-time weather updates specific to their location, up-to-date market prices and trends for various crops, and personalized agricultural advice on pest control, irrigation, and fertilization. It assists with scheduling daily farming tasks through reminders and detailed guidelines and includes a community forum for sharing experiences and getting support from peers and experts.

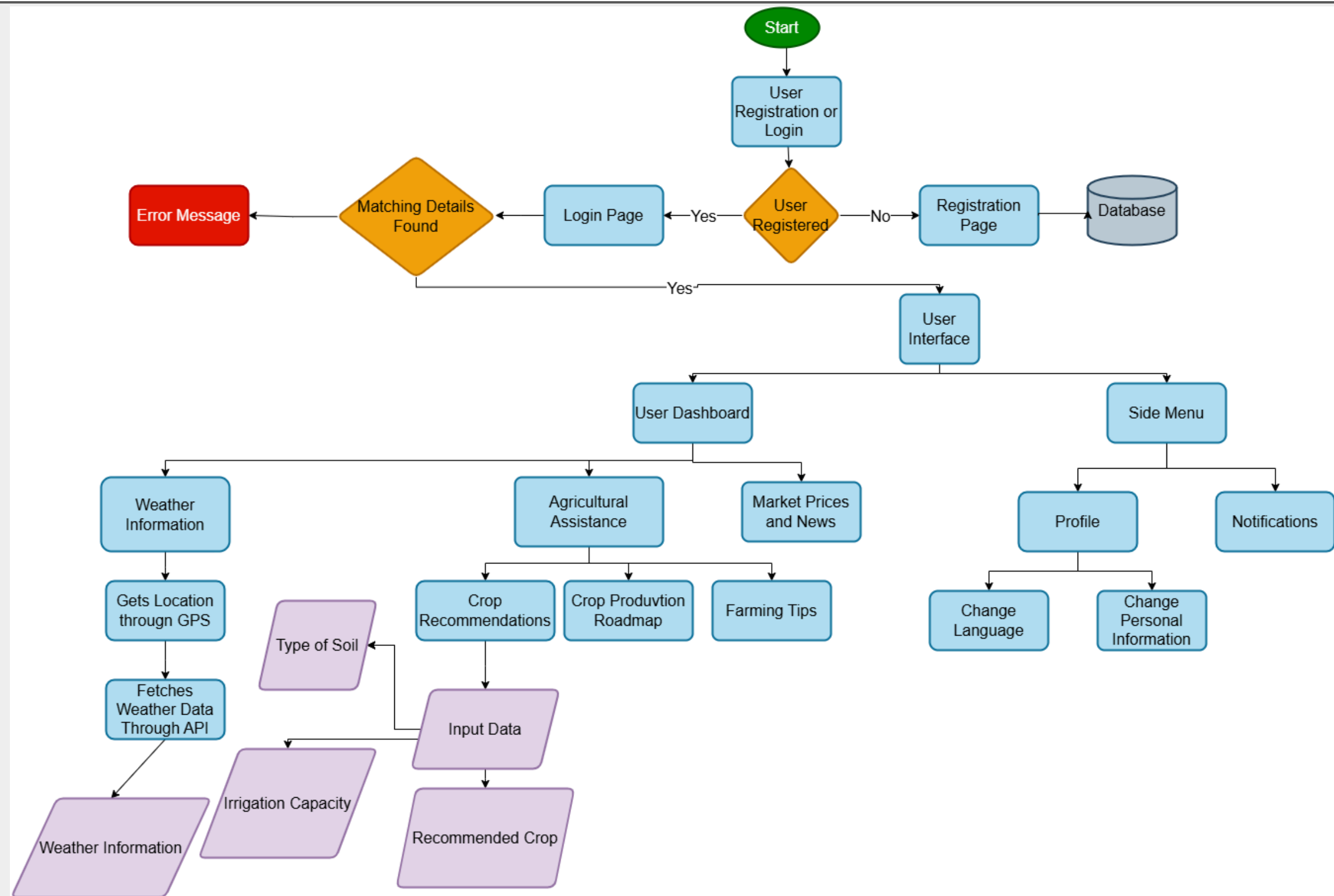
Abstract

E Kisaan is a digital platform designed for Indian farmers, offering location-specific real-time weather updates, localized market prices and trends for various crops, and personalized agricultural advice on pest control, irrigation, and fertilization. The platform schedules farming tasks with daily reminders and detailed guidelines, and features a community forum for sharing experiences and getting support from peers and experts. By providing real-time, location-specific market prices, E Kisaan aims to empower farmers with essential information and tools tailored to their needs, ultimately improving agricultural productivity and enhancing the livelihoods of farmers in India.

Implementation

E Kisaan is a specialized web application crafted to empower Indian farmers through advanced technology. Built on Django, a robust Python framework, the backend ensures solid data processing and business logic. It features a responsive web interface designed using ReactJS, backed by a robust system with RESTful APIs, data processing layers, and relational databases. The application seamlessly integrates with reliable weather APIs and market data providers, delivering real-time updates directly to farmers. It utilizes a PostgreSQL database, to efficiently store and manage data. E Kisaan aims to boost agricultural productivity and empower users with user-friendly features like custom dashboards, multi-language support, and offline access.

Process Flowchart



Tech Stack

Frontend:

- ReactJS for UI
- Redux for state management

Backend:

- Django

Database:

- PostgreSQL

APIs:

- Django REST Framework

Authentication:

- JWT (JSON Web Tokens) for authentication

Deployment:

- Docker for containerization
- AWS or Google Cloud Platform for deployment

Version Control:

- Git and GitHub

Thank You