

TECHNOLOGY STACK

Date	24 June 2025
Team ID	LTVIP2025TMID31177
Project Name	To Supply Leftover Food to Poor

A Technology Stack is a collection of technologies—such as programming languages, frameworks, libraries, tools, and services—used together to build and run a software application.

S.No	Component	Description	Technology
1	User Interface	How users interact with the application (Web and Mobile app)	HTML, CSS, JavaScript, React.js, React Native
2	Application Logic-1	Core application logic (user registration, food matching, notifications)	Node.js, Express.js
3	Application Logic-2	Real-time pickup and delivery coordination	Google Maps API or Firebase Realtime Database
4	Application Logic-3	Chat-based help or support service for users	IBM Watson Assistant or Dialogflow
5	Database	Stores structured and unstructured data (users, donations, requests)	MongoDB (NoSQL), PostgreSQL
6	Cloud Database	Cloud-hosted database for remote access and scaling	Firebase Firestore, IBM Cloudant
7	File Storage	Stores images of food, documents, or reports	Firebase Storage, IBM Block Storage
8	External API-1	Location services, delivery tracking, and route optimization	Google Maps API, Mapbox API
9	External API-2	Identity verification and volunteer validation	Aadhaar API, Digilocker API (if integrated)
10	Machine Learning Model	Predict food expiry or recommend donation times based on history	Custom ML model (Python + scikit-learn or TensorFlow)