



You Choose, We Do It

**St. JOSEPH'S COLLEGE OF ENGINEERING**

(An Autonomous Institution)

**St. Joseph's Group of Institutions**

OMR, CHENNAI - 119



AN INTERNAL HACKATHON

# MAKE-A-THON 2.0

CREATE. BUILD. INNOVATE

FOR II YEAR STUDENTS

## Basic Details of the Team & Problem Statement

**Name of the Domain**

(ODS701)Open Domain-Software

**Name of the Team**

Echoes of Arthur

**Problem Statement Title**

SwapSeva – Gaon Ka Digital Bazaar

**Name of the Team Lead**

Jebastine E

# **Details of the Team**

**Member 1 Name :** Jebastine E  
**Branch :** B.E  
**Stream :** CSE

**Member 2 Name :** Harini K  
**Branch :** B.E  
**Stream :** CSE

**Member 3 Name :** Deva Dharshini S  
**Branch :** B.E  
**Stream :** CSE

**Name of the Mentor :** Dr.E.Ahila Devi  
**Designation :** Associate Professor, Dept of CSE

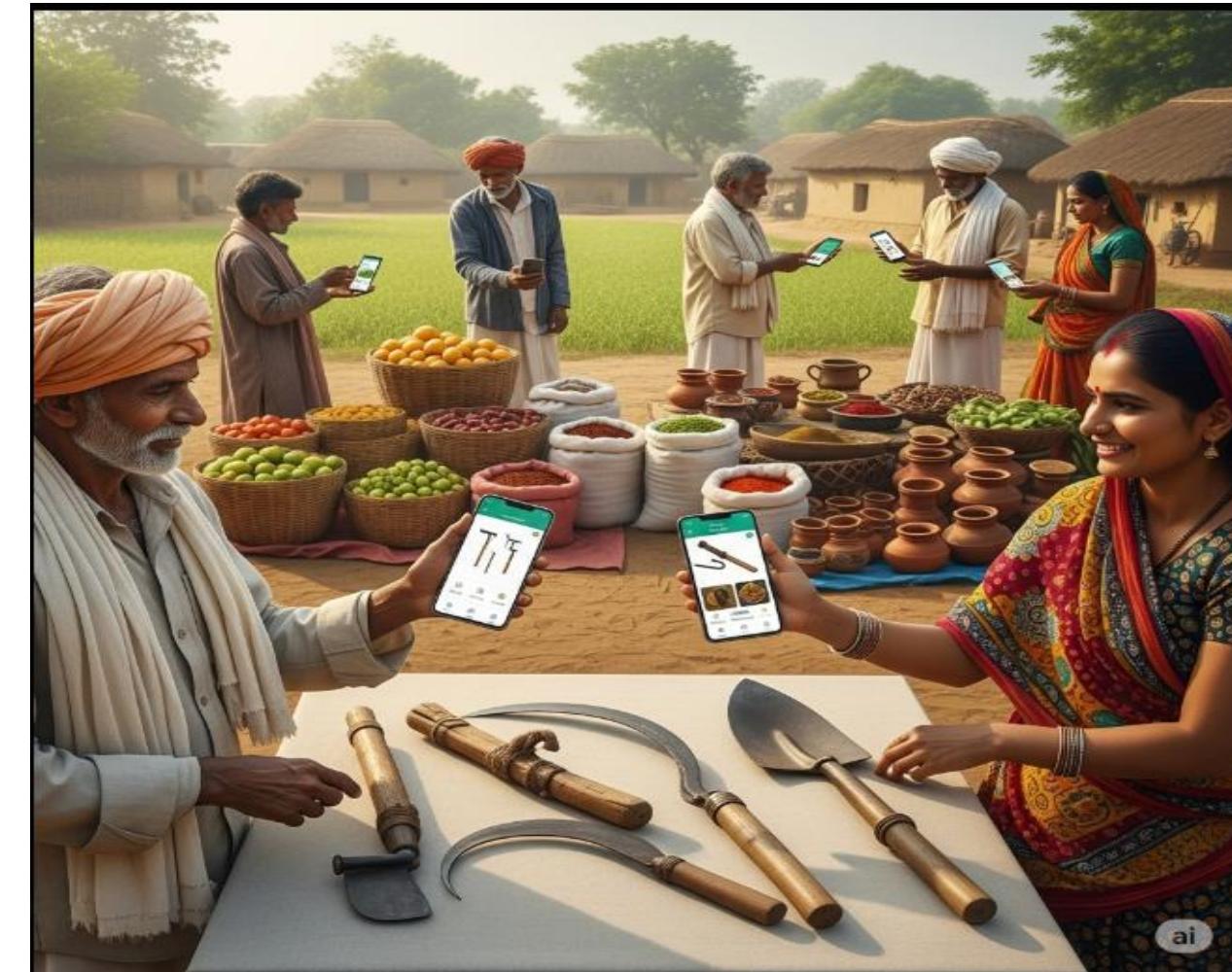
**Member 4 Name :** Harshini S G  
**Branch :** B.E  
**Stream :** CSE

**Member 5 Name :** Harsha Varshini T  
**Branch :** B.E  
**Stream :** CSE

**Member 6 Name :** Jose Andrew J  
**Branch :** B.E  
**Stream :** CSE

# SwapSeva – Gaon Ka Digital Bazaar

**SwapSeva – Gaon Ka Digital Bazaar** is a simple app for villages where people can **exchange crops, tools, or even farming help without using money**. Farmers can list what they have and what they need, and connect directly with others nearby. The app works even with **no or low internet**, supports **local languages**, and helps villagers trade fairly without middlemen. It makes rural trade more **self-reliant, easy, and sustainable**.



# NO. OF. SDG COVERED



## SDG 1 – No Poverty

- Directly reduces dependency on cash, enabling trade without money.
- Farmers gain access to resources even during cash shortages.



## SDG 2 – Zero Hunger

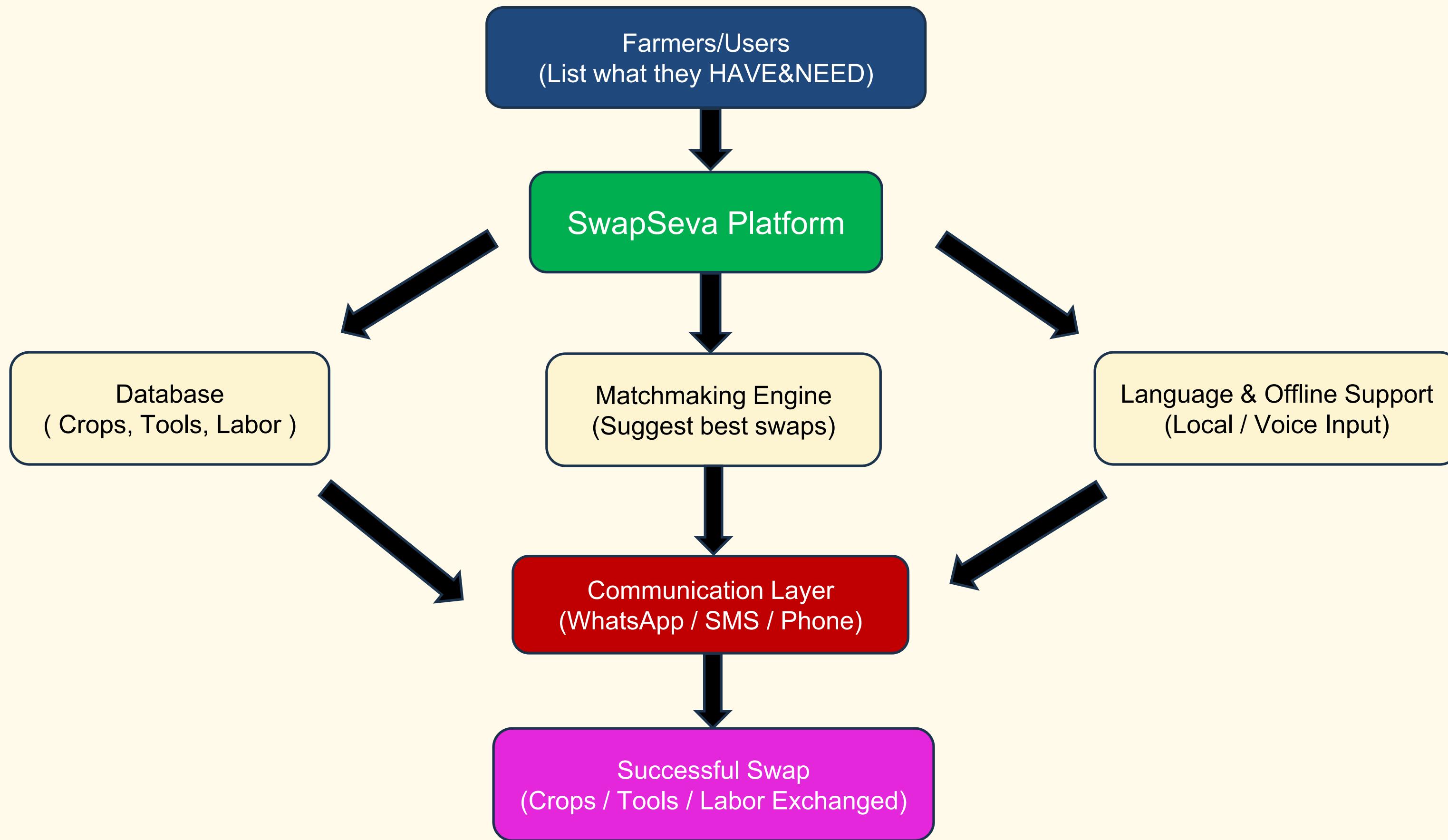
- Facilitates food crop exchanges, reducing wastage and improving food access.
- Helps small farmers secure essential food supplies through barter.



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# BLOCK DIAGRAM



# TECH STACK

## Frontend (UI):

- React / Flutter → Mobile-friendly app
- HTML / CSS / JavaScript → Responsive web version

## Backend & Database:

- Firebase → Firestore / Realtime DB
- Firebase Authentication → Phone number login
- Firebase Hosting → Easy deployment

## Communication:

- WhatsApp API / SMS → Direct farmer connect

## Offline & Local Support:

- Firebase Offline Sync → Works with low/no internet
- Voice Input / Local Language → Non-literate friendly

# INNOVATION

<b>Feature</b>	<b>SwapSeva</b>	<b>Current Agri-Marketplaces</b>
<b>Trade Type</b>	Barter-first, Cashless	Cash-based only
<b>Assets Supported</b>	Crops, Tools, Labor	Mostly crops only
<b>Connectivity</b>	Works offline, Low/No internet	Requires stable internet
<b>Accessibility</b>	Local language, Voice input, Non-literate friendly	Standard UI, Literacy-dependent
<b>Community Focus</b>	Direct farmer-to-farmer, No middlemen	Platform-mediated
<b>Trust &amp; Transparency</b>	Village-level trust, Transparent trade	Limited, Platform-dependent
<b>Rural Adaptation</b>	Designed for remote, low-resource areas	Urban/Tech-focused