



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

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

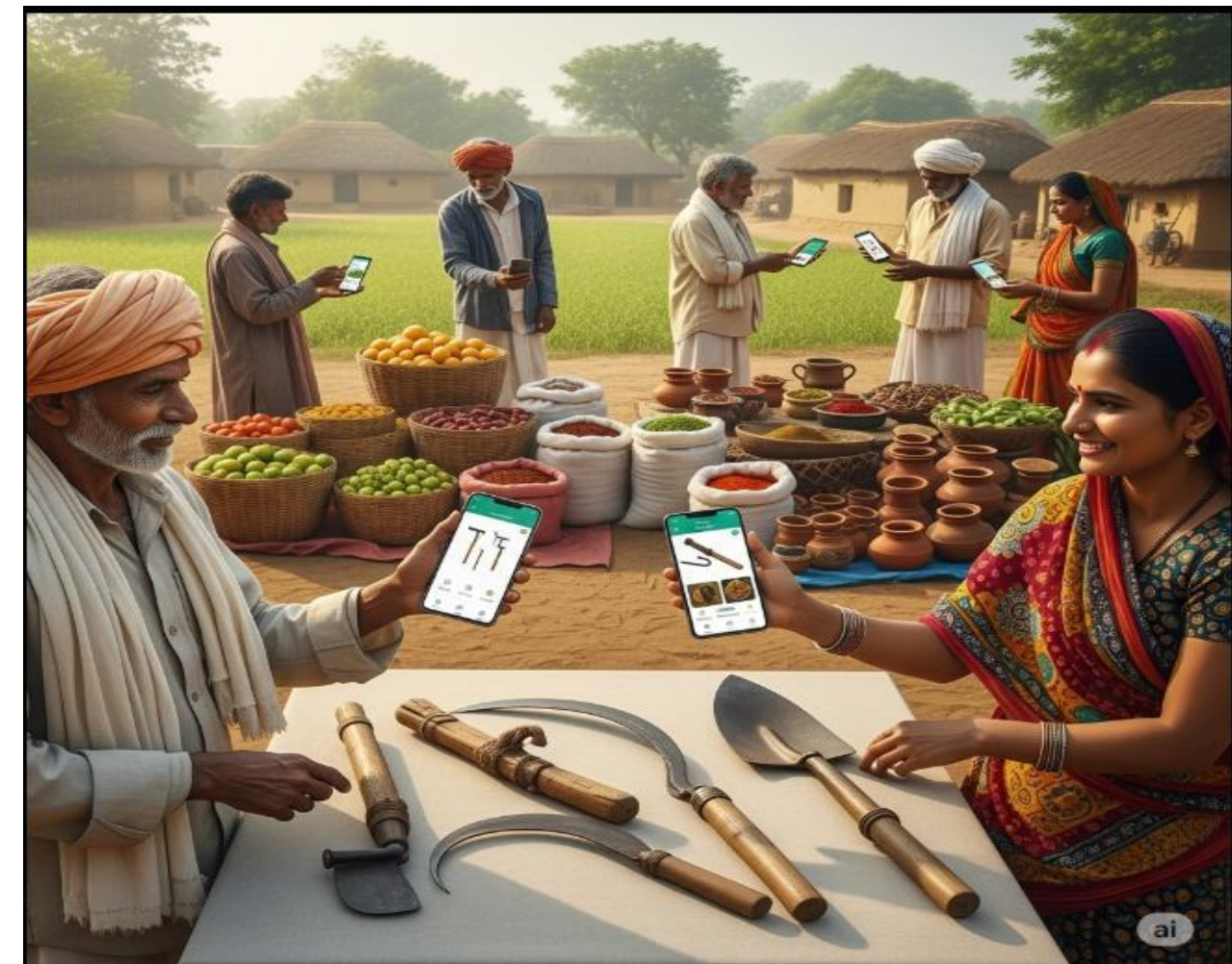
Stream : CSE

Name of the Mentor : Dr.E.Ahila Devi

Designation : Associate Professor, Dept of 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

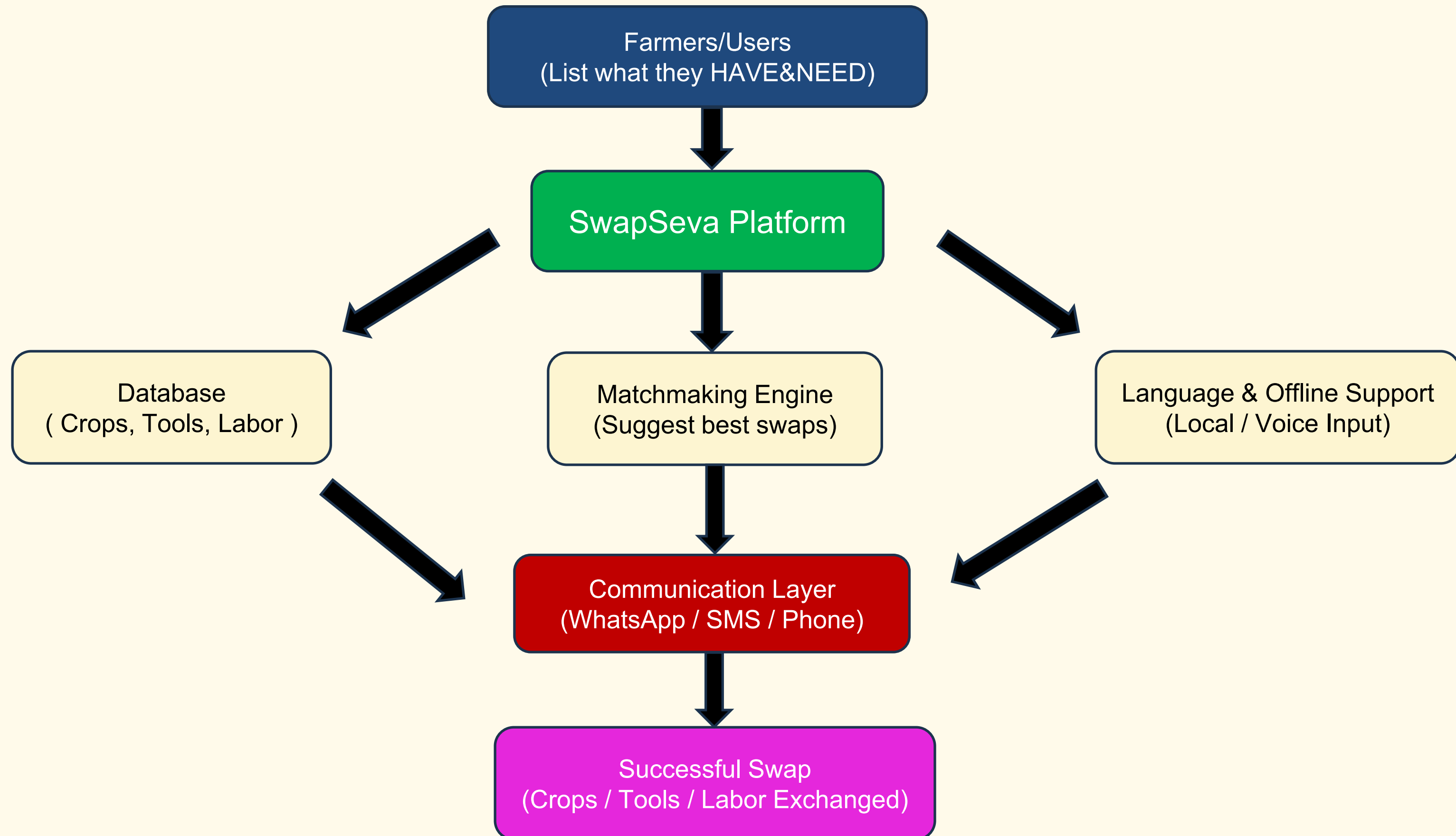
- Facilitates food crop exchanges, reducing wastage and improving food access.
- Helps small farmers secure essential food supplies through barter.



SDG 2 – Zero Hunger

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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

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