



MNIT JAIPUR'S SPHINX '24 HACKATHON

***SUBMISSION
ROUND***

TEAM IF
GLA UNIVERSITY
MATHURA, U.P

Developing an automated bill-splitting app to offer the users a seamless way to handle shared expenses effortlessly and conflict-free.

With transparent tracking, receipt scanning, and smart categorization, this project ensures accuracy in dividing costs.

PROBLEM STATEMENT



Why this Problem Statement?

PROBLEM

- Splitting bills and expenses is often tedious and error-prone.
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- Manual calculations of individual shares are time-consuming.
.....
- Tracking balances and ensuring everyone pays their share accurately is challenging.

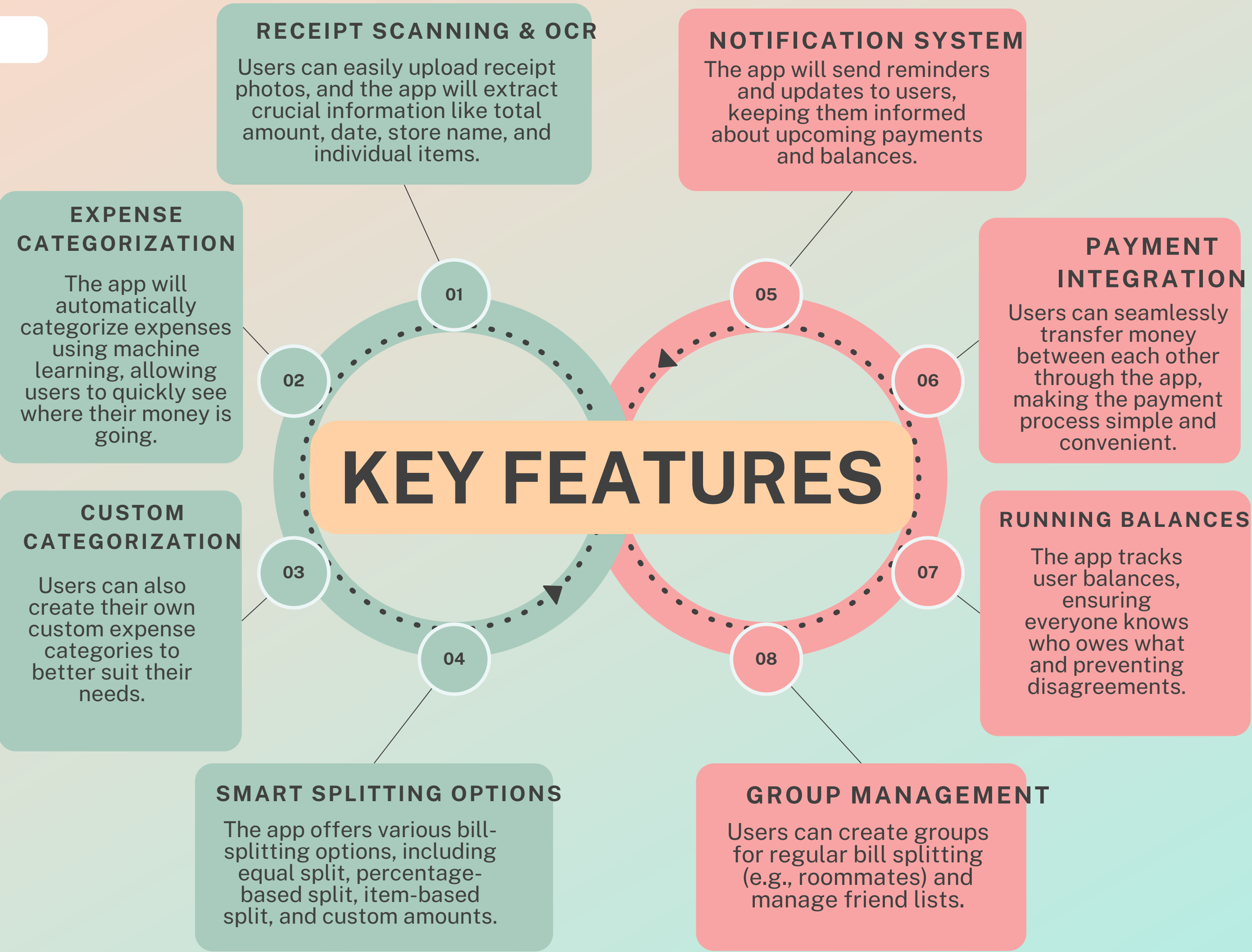
VS

SOLUTION

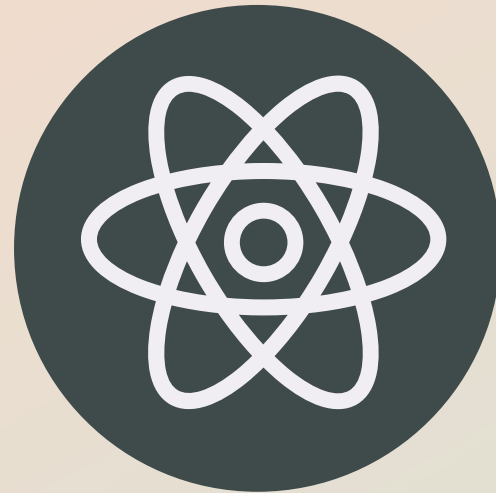
- Addresses these challenges with a seamless, automated solution.
.....
- Simplifies the process, eliminating manual calculations and reducing errors.
.....
- Features like receipt scanning make logging expenses quick and easy.

How is this Helpful?





TECH STACK



Frontend

React Js

Tailwind css

React Router

Axios



Backend

Node.js

Express.js

Firebase Cloud
Messaging

MongoDB/NoSQL



Machine Learning

Google Vision API

Python

Multinomial Naive Bayes

Scikit-Learn



Notifications & Deployment

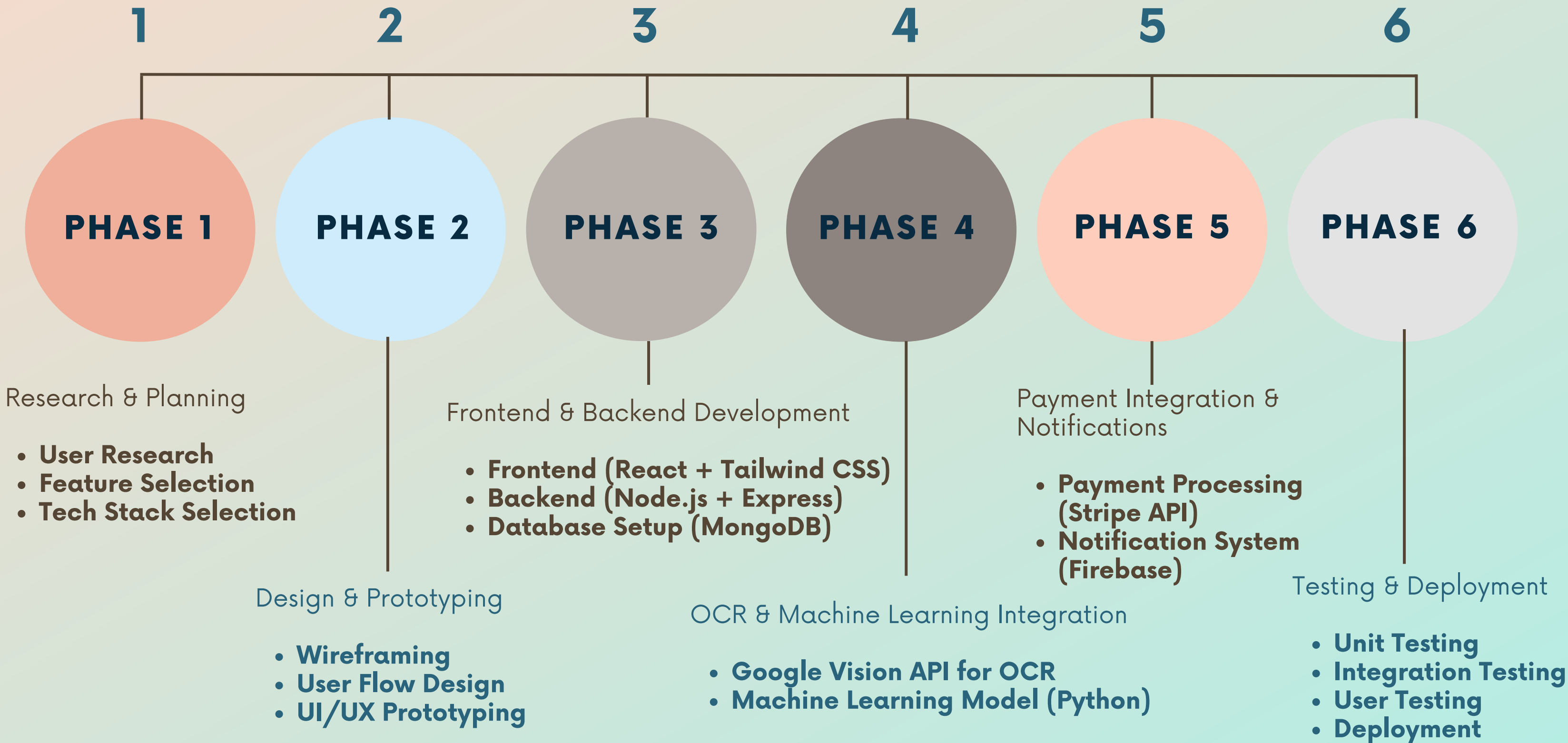
AWS S3

Heroku

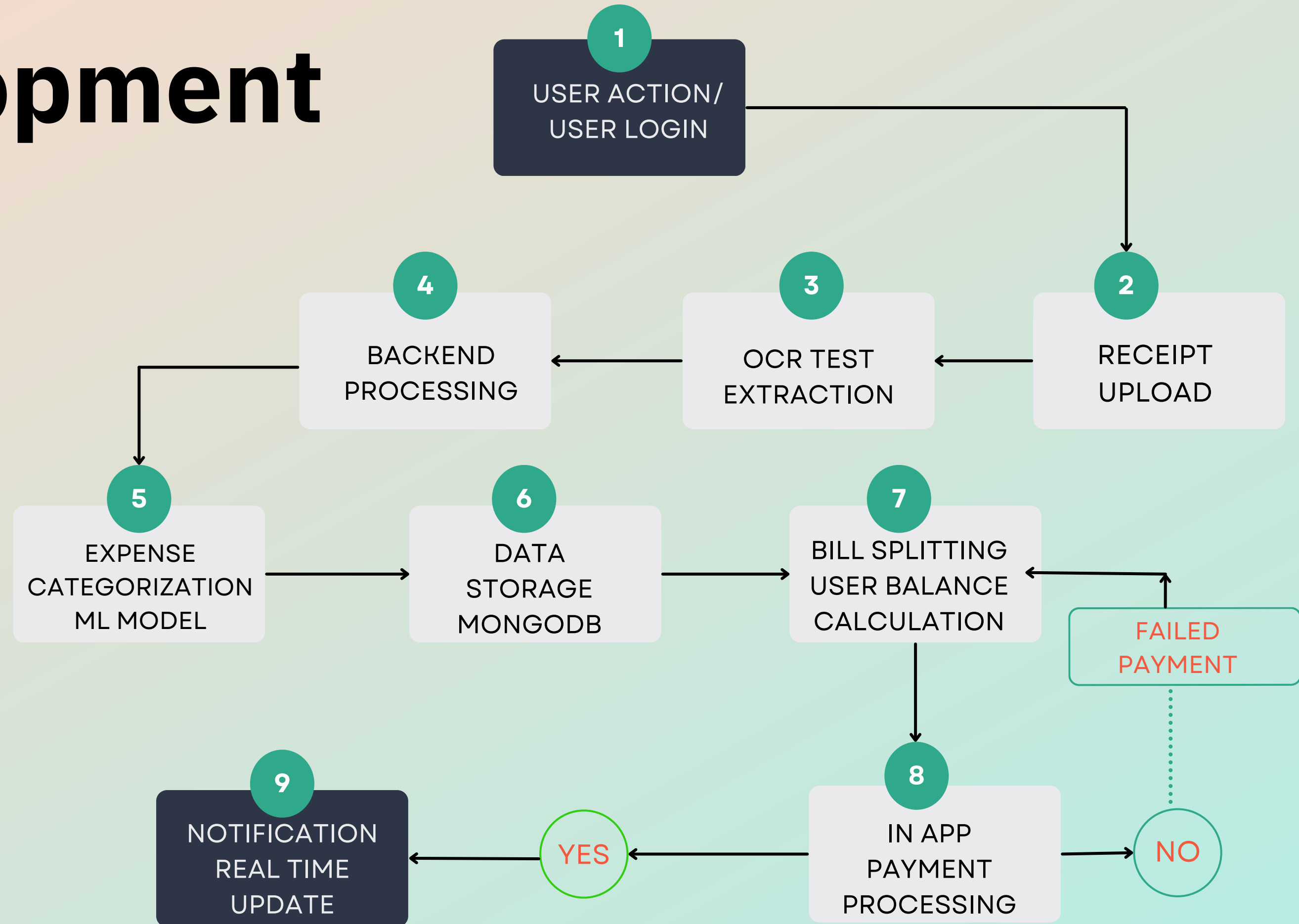
Firebase Cloud
Messaging

Docker

Development Phases



Development Cycle



SWOT ANALYSIS

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Strengths

Weaknesses

Opportunities

Threats

- User-Friendly Interface
- Automated Features
- Custom Splitting Options
- Transparency & Accountability
- Integrated Payment Processing

- Dependency on External APIs
- Learning Curve
- High Initial Development Time

- Growing Demand for Financial Apps
- Potential for Expansion
- Collaboration with Financial Services
- Adoption by Groups & Organizations

- Competition from Established Apps
- Data Privacy & Security Concerns
- API Limitations
- User Retention Risks

TARGET MARKET

Demographic Segmentation

- **Age:** 18-45 years
- **Gender:** Unisex
- **Income Level:** Middle to upper-middle income
- **Occupation:** College students, young professionals, freelancers
- **Education Level:** Secondary education and above

Geographic Segmentation

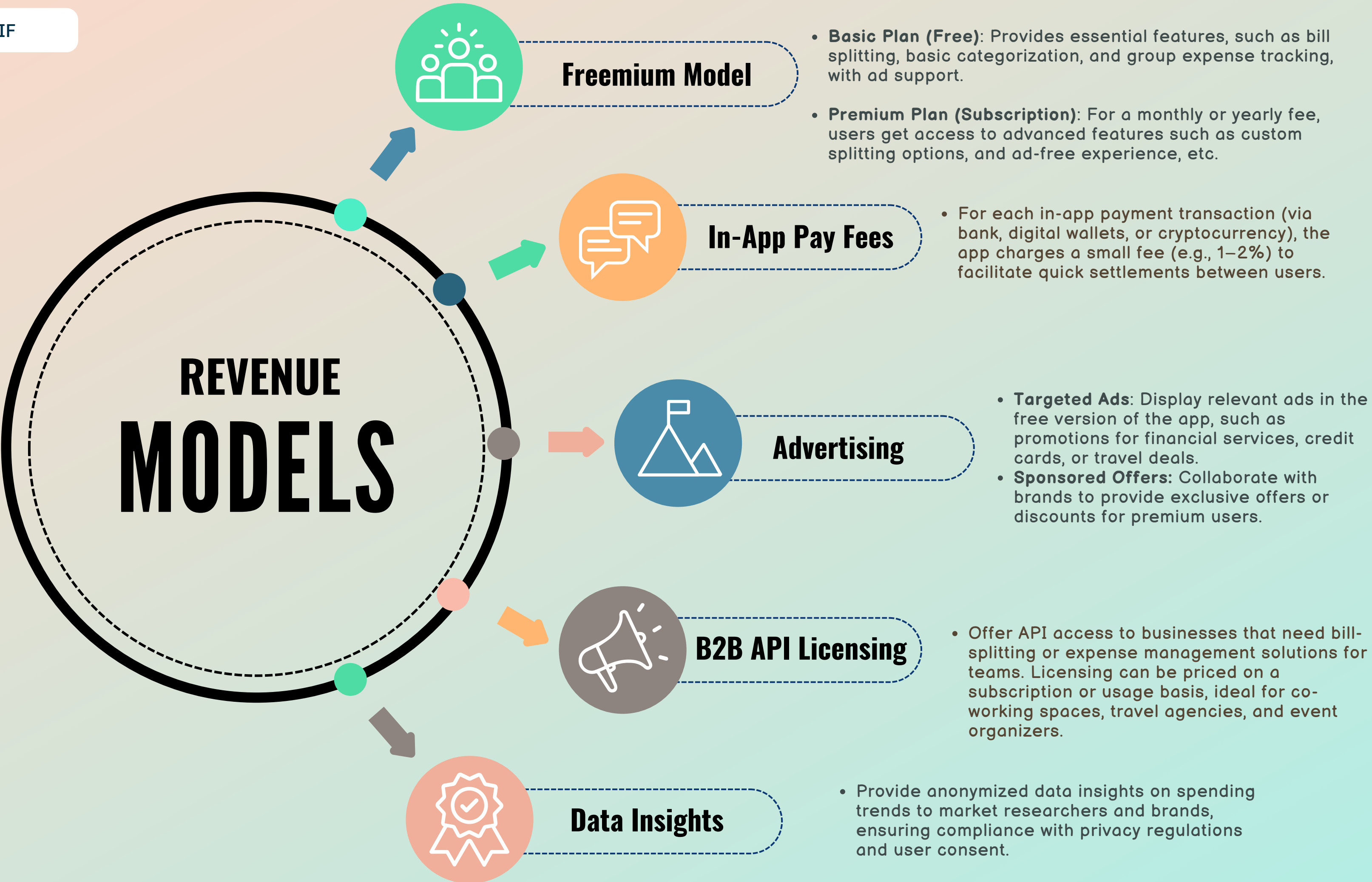
- **Primary Locations:** Urban and suburban areas with active social scenes
- **Regions:** Targeting India initially, expanding globally eventually
- **Mobility:** Users in shared housing or frequent travelers with shared expense needs

Psychographic Segmentation

- **Lifestyle:** Socially active, budget-conscious, and tech-savvy
- **Values:** Convenience, fairness, and transparency in managing shared expenses
- **Pain Points:** Finds manual expense sharing methods inefficient and often conflict-prone

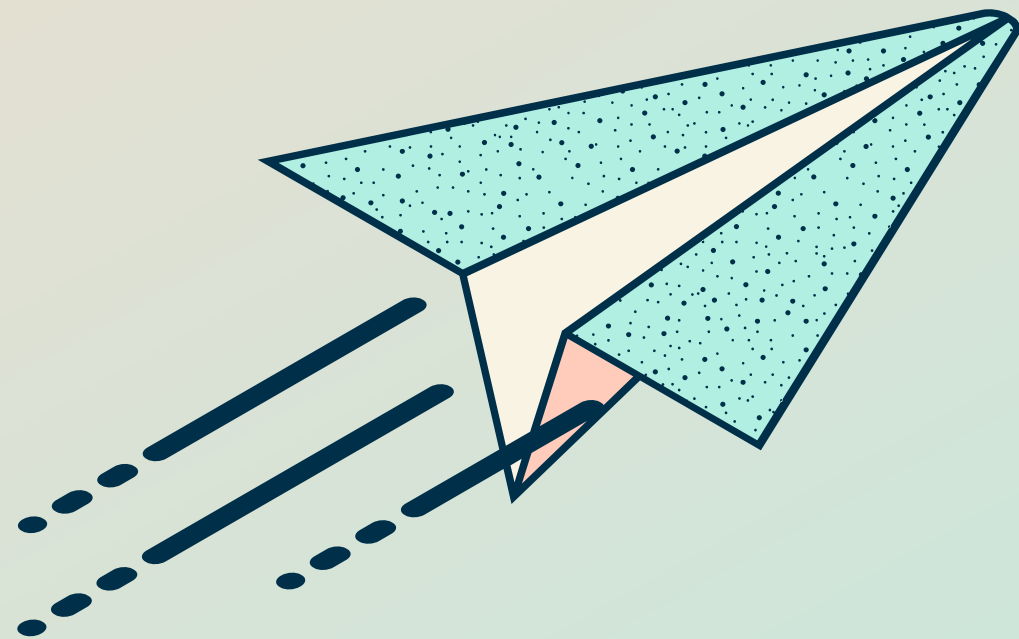
Behavioral Segmentation

- **Usage Patterns:** Regular bill splitting with friends or roommates
- **Buying Behavior:** Adopts digital payment solutions
- **Financial Awareness:** Actively tracks spending, values financial insights



FUTURE PROSPECTS

EXPANSION ENHANCEMENT GROWTH



01

B2B Partnerships

Extend the app's capabilities to small businesses or workgroups that frequently manage shared expenses

02

Integration with Social Platforms

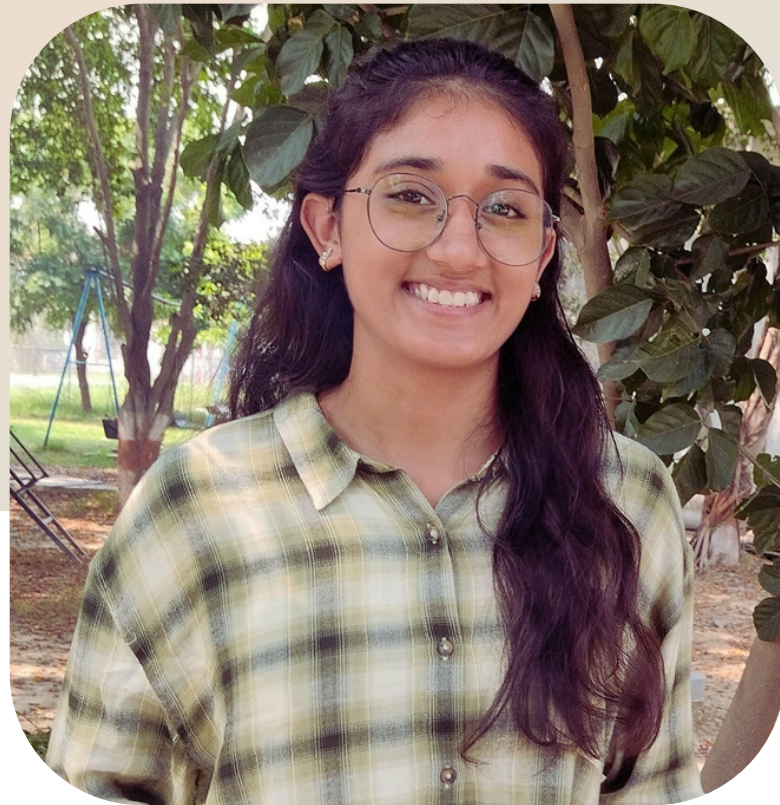
Enable the app to work alongside platforms like WhatsApp, Slack, or Facebook Messenger

03

International Payment Support

Incorporate more global payment platforms (like PayPal, Paytm, Alipay) to facilitate international transactions

Meet Team IF



Duanshi Chawla

B-Tech (CS)

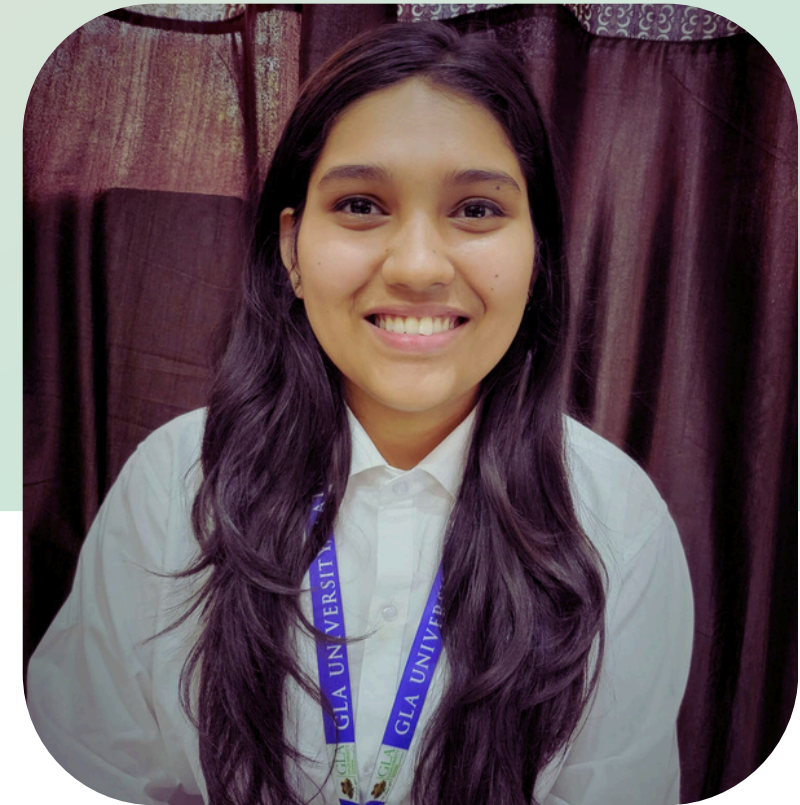
- MERN Stack
- Presenter



Harsh Gautam

B-Tech (CS)

- Machine Learning
- Team Management

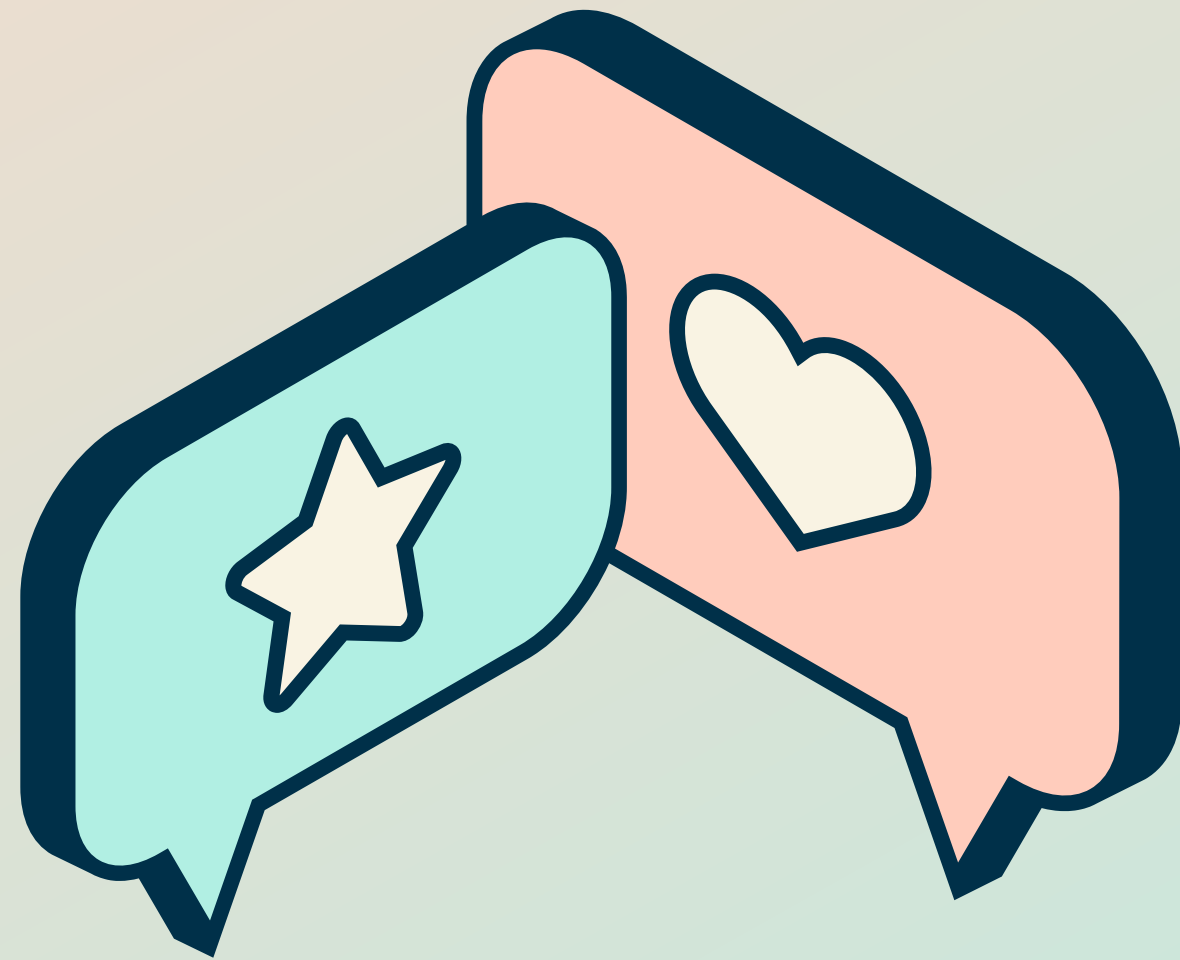


Saloni Bansal

B-Tech (CS)

- MERN Stack
- Project Planning

ACKNOWLEDGEMENT



We, the members of **Team IF**, would like to express our heartfelt gratitude to **Team Sphinx** and **MNIT Jaipur** for organizing **Sphinx 2024** and providing us with this inspiring platform.

This hackathon is a fantastic opportunity for us to showcase our creativity, technical expertise, and innovation. We appreciate the dedication and effort that goes into making this event possible, and we are excited to present our project and learn alongside our peers.

Thank you for considering our submission and for supporting our journey toward growth and excellence.

Thank You!

If you have any further questions, please don't hesitate to contact us:

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