FamilyFi: Empowering Financial Stability

Revolutionizing decentralized finance (DeFi) for Indian families. Presented by Team Crazy Developers for the Agentic Ethereum Hackathon - India 2025.

The Challenge: High EMIs & Loan Burdens

Many Indian families face severe financial strain from high Equated Monthly Installments (EMIs) and loan repayments.

- **Example:** Monthly income ₹1,70,000, EMIs ₹1,10,000.

- Only ₹60,000 left for expenses, depleted in a week.

- Debt-to-income ratio of 64.7%.

Insufficient Funds

For basic needs like food, utilities, and education.

High-Interest Loans

15-20% rates from traditional lenders worsen stress.

Limited Access

To affordable refinancing or savings options.

FamilyFi: Our Ethereum-Based DeFi Solution

FamilyFi leverages Ethereum's blockchain to provide accessible and transparent financial tools, alleviating EMI burdens and improving financial stability for families.

Loan Refinancing

Connects families to DeFi protocols for lower-rate stablecoin loans (8-12% vs. 15-20%).

Budgeting Agent

Integrates with UPI via oracles for real-time spending tracking and budget adjustments.

Micro-Savings

Automatically allocates funds to stablecoin savings pools (3-5% annual yields).

Smart Contract Automation

Automates loans and savings, eliminating intermediaries.

FamilyFi Technical Architecture

Built on Ethereum, FamilyFi ensures secure, transparent, and efficient financial operations.

Smart Contracts

- Written in Solidity.
- Deployed on Polygon for cost efficiency.
- Automates loan agreements, repayments, savings pools.

Oracles

- Chainlink integration.
- Real-time UPI transaction data.
- External financial metrics for budget tracking.

Frontend

- Mobile app with SMS-based fallback for low-tech environments.
- MetaMask integration for secure wallet management.

Stablecoin Integration

- Uses USDC or INR-pegged stablecoins.
- Ensures stability and regulatory compliance.

Impact & Feasibility

27%

EMI Reduction

(From ₹1,10,000 to ₹80,000 in example case)

₹30K

Monthly Savings

(Freed up for family expenses)

FamilyFi significantly reduces debt burden, extends cash runway, and builds emergency savings, empowering millions of households.

Made with GAMMA

Overcoming Challenges

Addressing potential hurdles to ensure widespread adoption and success.

1	**Regulatory Uncertainty**
	Mitigated by using RBI-compliant stablecoins.

2	**Limited Tech Literacy**
	Addressed via simple SMS-based interfaces and local support networks.

3	**Stablecoin Peg Risks**
	Managed by selecting audited assets like USDC.

Team Crazy Developers: Our Contributions

Meet the brilliant minds behind FamilyFi.

Santhosh S

Backend Development: Smart contracts in Solidity, Polygon deployment.

Mahalakshmi J

UPI Integration: Ethereum oracles for real-time transaction data.

Vidhya Sathyamurthy

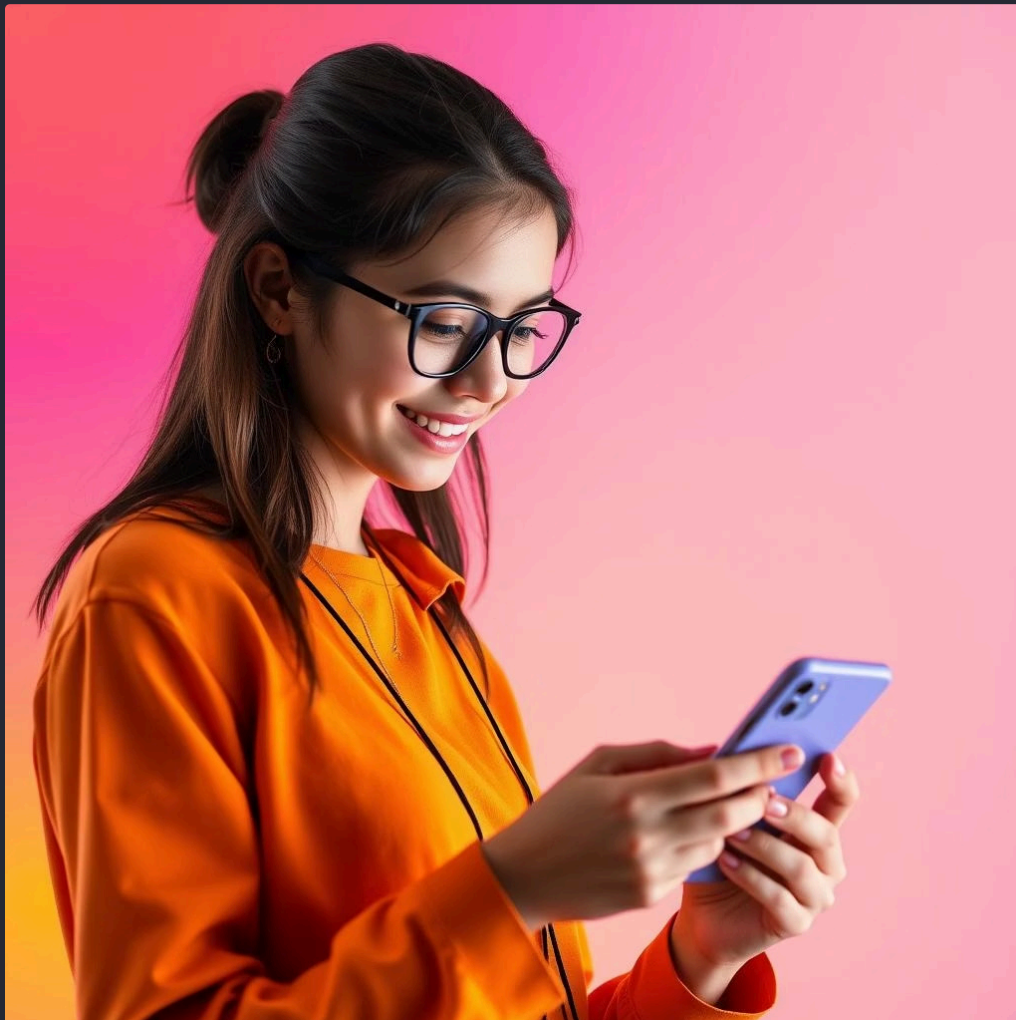**Frontend Design:** User-friendly mobile app, SMS fallback.

Nisha Yadav

Stablecoin Integration: Selecting and implementing audited stablecoins.

Future Developments & Conclusion

Student Savings Tracker

- Track spending via UPI-linked transactions.

- Recommend savings goals and allocate funds to stablecoin pools.

- Gamified incentives for financial literacy.

FamilyFi's Vision

Harnesses Ethereum's DeFi to address high EMI burdens.

Offers affordable refinancing, real-time budgeting, and accessible savings tools.

Empowers Indian families to break free from debt cycles.

Team Crazy Developers: Santhosh S, Mahalakshmi J, Vidhya Sathyamurthy, Nisha Yadav.