MDES PROJECT-2

Service Design for Financial Literacy

Project by:

Tuhin Bhuyan // 166330004

Guide:

Prof. Pramod Khambete

Risk Mitigation

Wealth Management

Retirement Planning

Financial goal-setting

Tracking Expenses

Business

Financial Literacy

Stocks & Bonds

Ponzi Schemes

Mutual Funds

Safety & Trust

Financial Shocks

Debt Spiral

Banking

Credit / Loans

Wants v/s Needs

Family Planning

Taxes & Mortgages

	SKILLS	•		KNOWLEDGE
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Invocting	Risk Diversification	•	Intorocto	Incurance
Investing	RISK DIVEISITICATION	•	Interests	Insurance

investing RISK Diversification

Budgeting

Planning for Shocks

Managing Debt

Tax planning

Utilising Credit

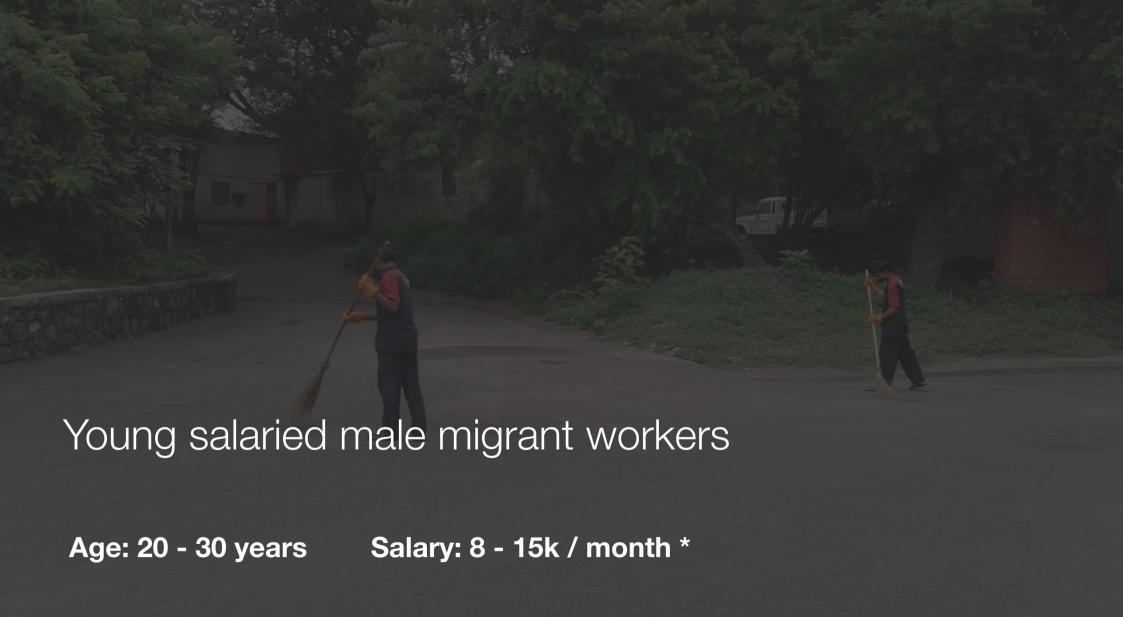
SKILLS

KNOWLEDGE

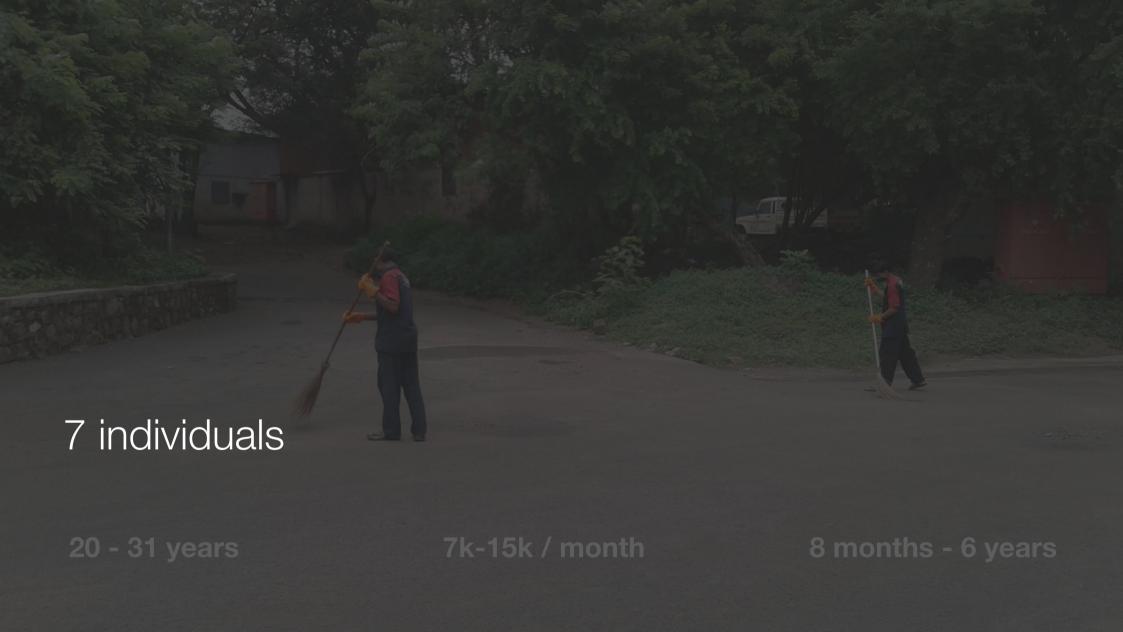
Investing	Risk Diversification	Interests	Insurance
Risk Mitigation	Budgeting	Stocks & Bonds	Debt Spiral
Wealth Management	Planning for Shocks	Ponzi Schemes	Credit / Loans
Retirement Planning	Financial	Literacy	Wants v/s Needs
Financial goal-setting	Managing Debt	Mutual Funds	Banking
Business	Tax planning	Safety & Trust	Family Planning
Tracking Expenses	Utilising Credit	Financial Shocks	Taxes & Mortgages

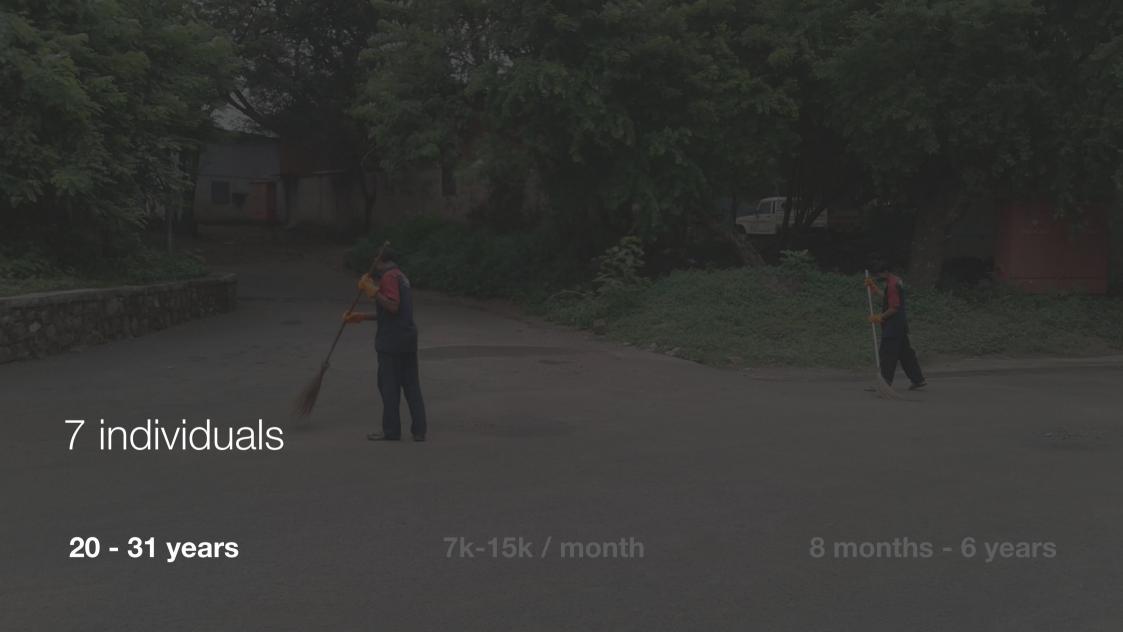
Target Users

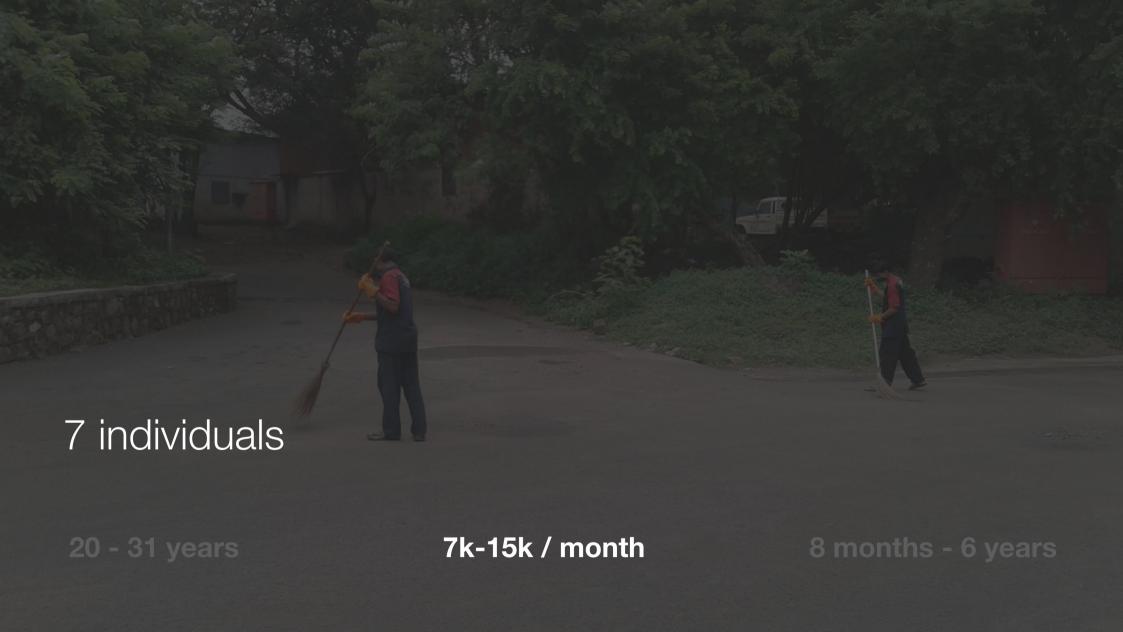


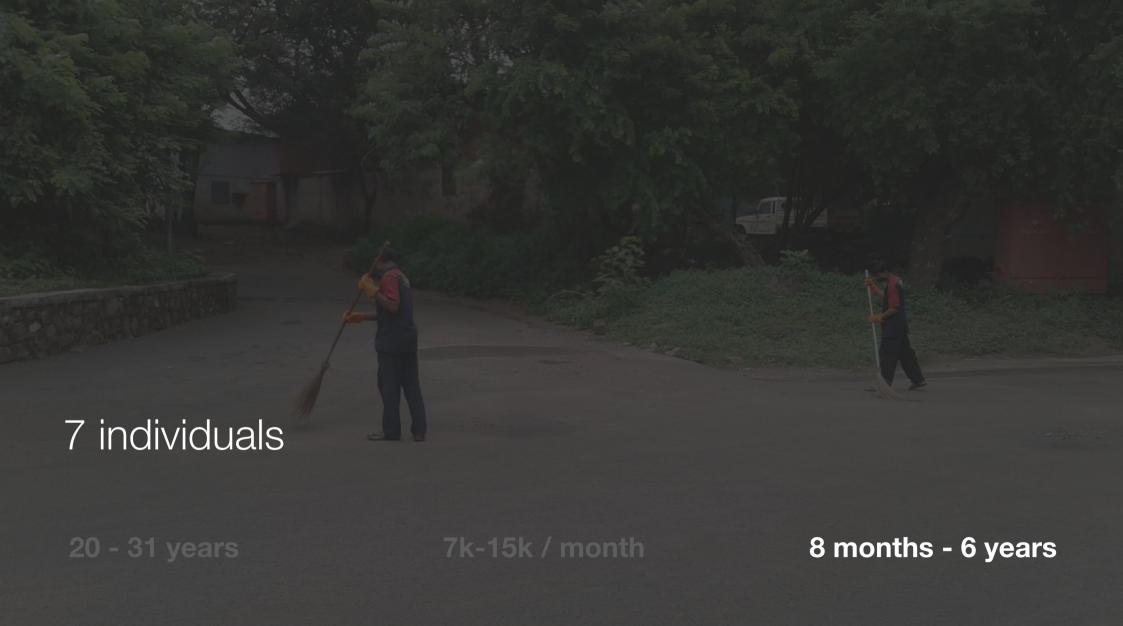












Primary Research

Card Voting

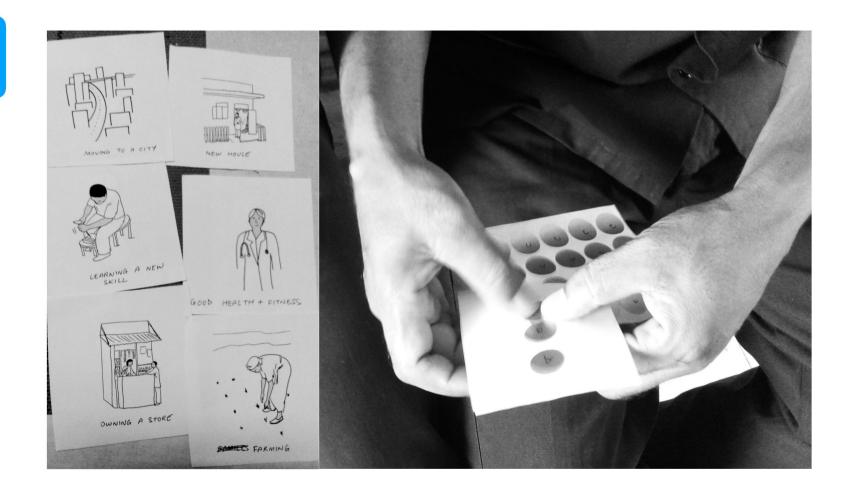
Cashflow Map

Savings Budget

Card Voting

Cashflow Map

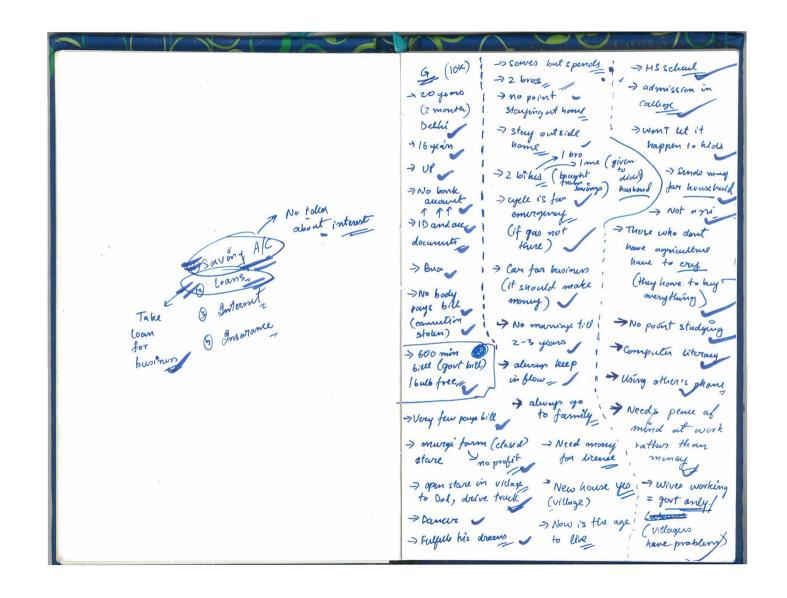
Savings Budget



Card Voting

Cashflow Map

Savings Budget



Card Voting

Cashflow Map

Savings Budget

- What mattered the most?

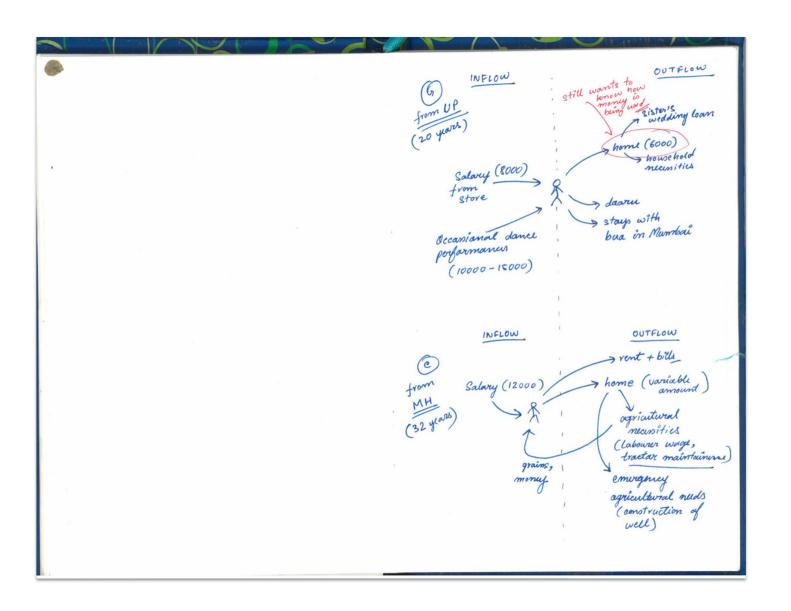
- Stories & past experiences

- Shock coping mechanisms

Card Voting

Cashflow Map

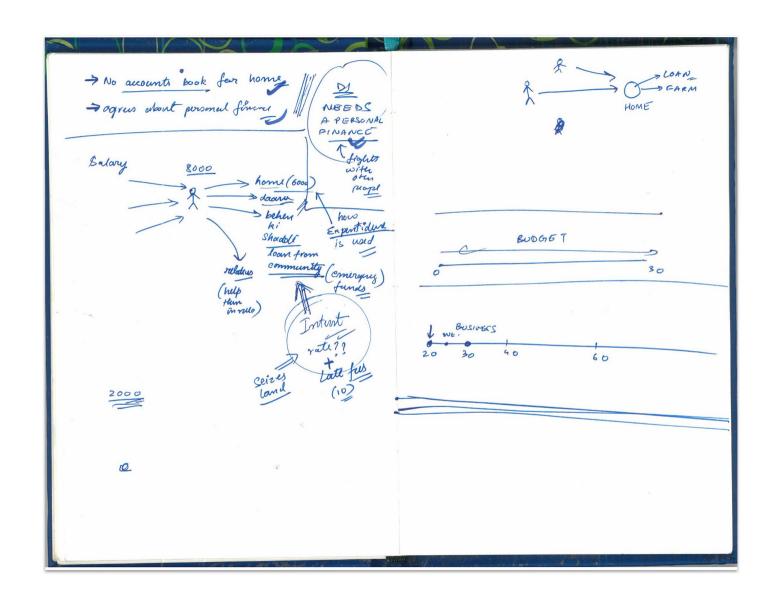
Savings Budget



Card Voting

Cashflow Map

Savings Budget



Card Voting

Cashflow Map

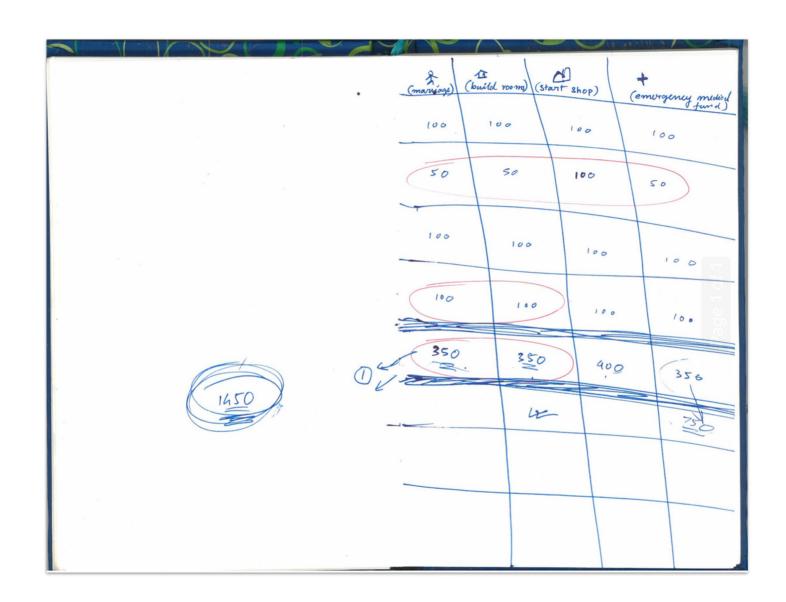
Savings Budget

- Where they spent their money?
- Awareness of cashflow
- Spending patterns & micro transactions

Card Voting

Cashflow Map

Savings Budget



Card Voting

Cashflow Map

Savings Budget

- Most likely to saving areas
- Savings plan during shocks
- Decision making

Card Voting

Cashflow Map

Savings Budget

- 1. Do you have savings account?
- 2. Do you know what interest is?
- 3. Do you track your expenses?
- 4. Do you make spending budget?
- 5. Are you able to save from your income?
- 6. Do you know where you spend most of your salary?
- 7. Have you used apps like Paytm or Bhim?

Card Voting

Cashflow Map

Savings Budget

	P1	P2	P3	P4	P5	P6	P7
Q1	Yes	No	Yes	No	No	No	No
Q2	Yes	No	Yes	Yes	No	No	No
Q3	No	No	No	No	No	No	No
Q4	No	No	No	No	No	No	No
Q5	No	No	No	No	No	No	No
Q6	Yes	No	No	Yes	No	No	No
Q 7	Yes	No	No	No	No	Yes	Yes

Card Voting

Cashflow Map

Savings Budget

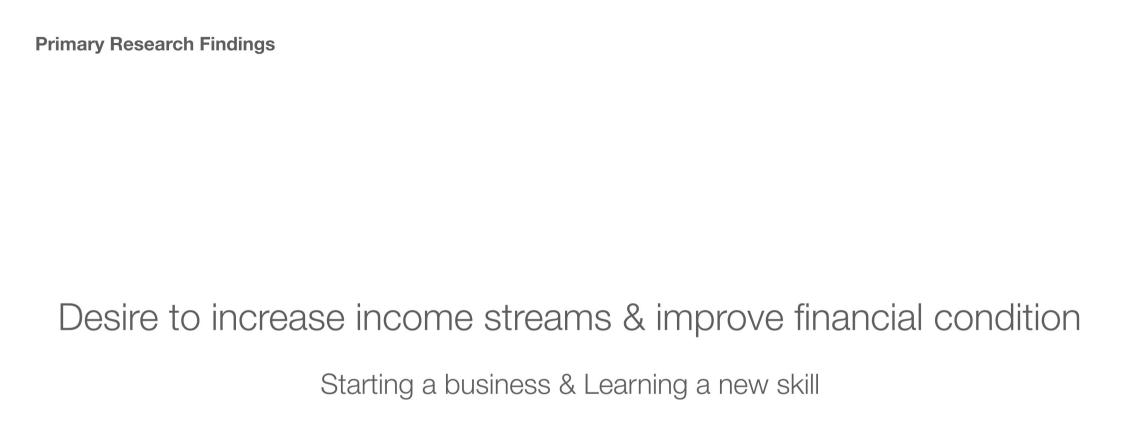
- Already existing financial habits (tracking expenses, budgeting, saving)
- Are they really not able to save?
- Bank account & financial awareness
- Technology usage?

Primary Research Findings

Primary Research Findings

Very family centric

General well-being, financial help, family properties & family goals



Primary Research Findings

Unable to take risk and pursue their dreams

Due to non-existent savings & family responsibilities

Periodic	Foreseeable	Unanticipated
Agriculture	Health Marriage	High Electricity Bill due to theft
	Child birth	Repairs
Can be Planned	Can be Planned	Cannot be Planned

PERSONAL

COLLECTIVE

ASPIRATIONS

I wish I could start my own business

l also want to learn hardware repairs I wish I could treat mother in a good

I wish I could buy a tractor for our farm

WORRIES

I have to pay the debt to Rupesh

I have to earn more to support a child

repay the debt to the village fund

Sheela is getting married

repair the pump before next harvest

No Expense Tracking

Areas of high expenditure?

Can't minimise expense

Incur Debt or Interest

Borrow money in case of shocks

No Expense Tracking

Areas of high expenditure?

Can't minimise expense

Incur Debt or Interest

Borrow money in case of shocks

No Expense Areas of high expenditure?

Can't minimise expense

Incur Debt or Interest

Borrow money in case of shocks

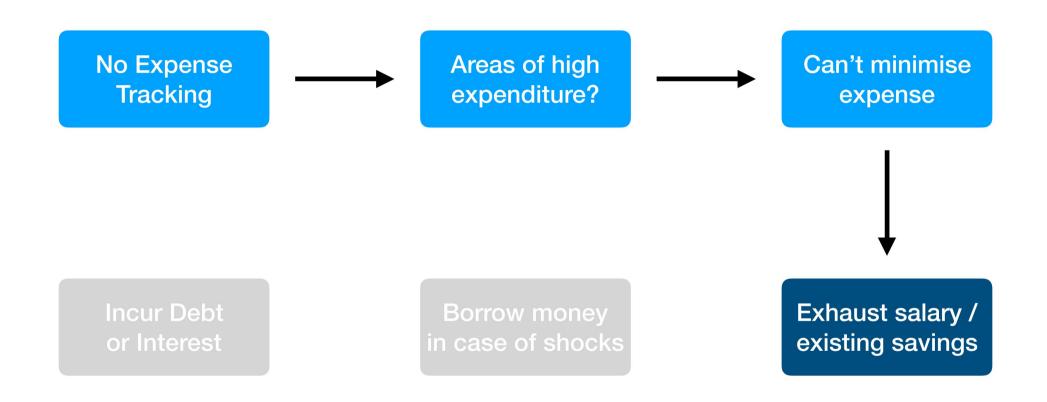
No Expense Tracking

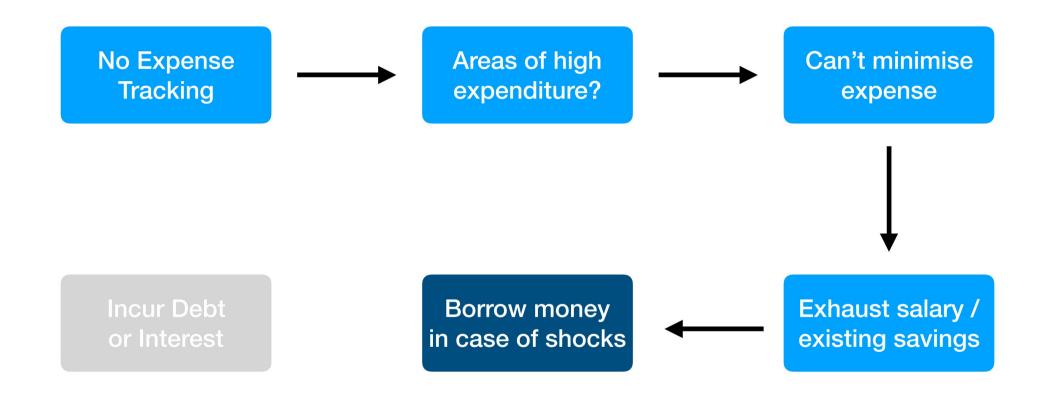
Areas of high expenditure?

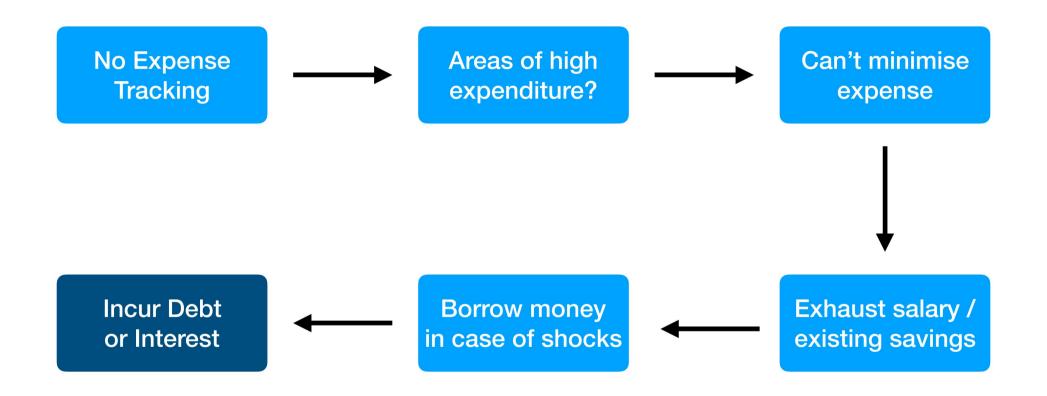
Can't minimise expense

Incur Debt or Interest

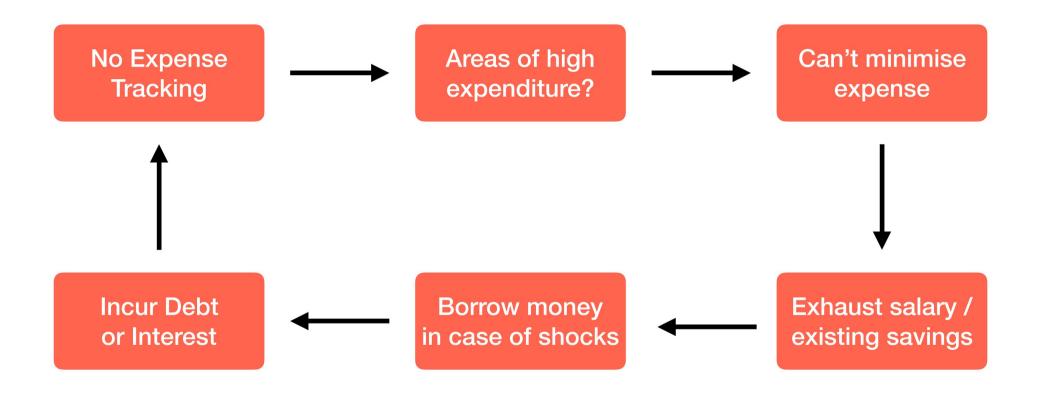
Borrow money n case of shocks





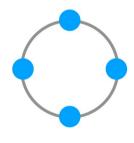


Primary Research Findings - Effects of not tracking Expense



Secondary Research

Secondary Research - Community influence on Financial Literacy



Financial Literacy is better attained while **interacting** in the workplace or in the community, in groups or through peer learning.

Sources:

Financial Literacy and pension plan participation in Italy (Fornero and Monticone 2011)

Bank Account is not Enough, Examining Strategies for financial inclusion in India

Secondary Research - Avoiding debt and surviving financial shocks



The mantra that should be adopted by lower-income households to avoid debt due to financial shocks is "steadily saving"

Sources:

Financial Literacy for all



Financial illiteracy puts an enormous burden on the nation in the form of higher cost of financial security and lesser prosperity

Sources:

Why India needs to work on financial literacy now more than ever



Conventional classroom financial education often fails due to the large gap that exists between knowing and doing.

Sources:

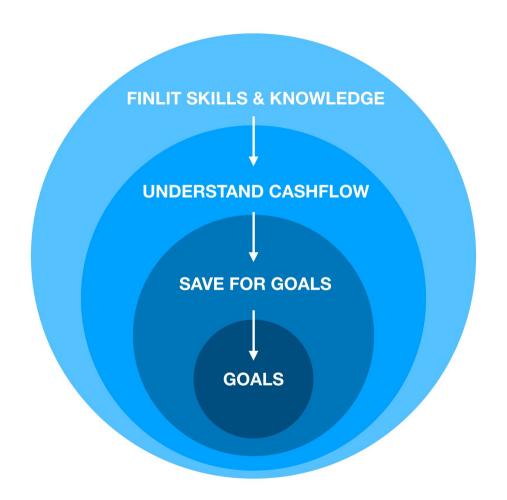
Innovations in Financial Capability

Service Concept









Daily budget +
Track Expenses

Identify areas of high expenditure

Plan expense Minimisation

Family / Personal Goals

Daily budget + Track Expenses Identify areas of high expenditure

Plan expense Minimisation

Family / Personal Goals

Daily budget + Track Expenses Identify areas of high expenditure

Plan expense Minimisation

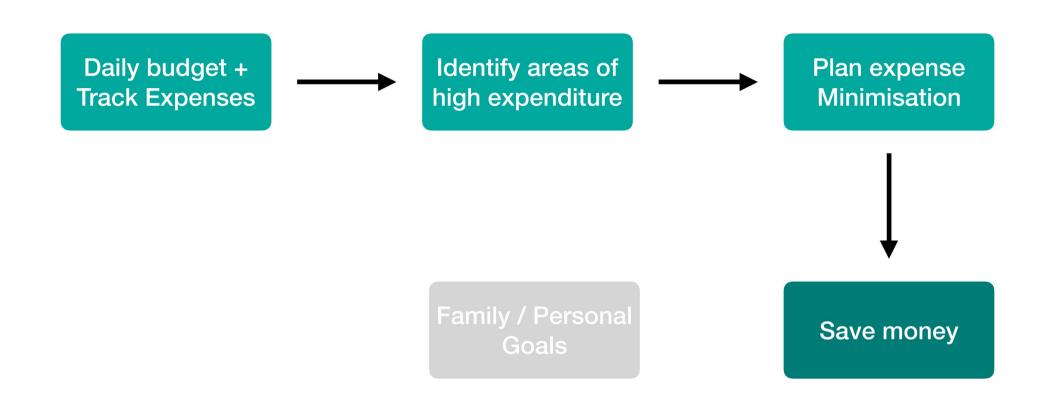
Family / Personal
Goals

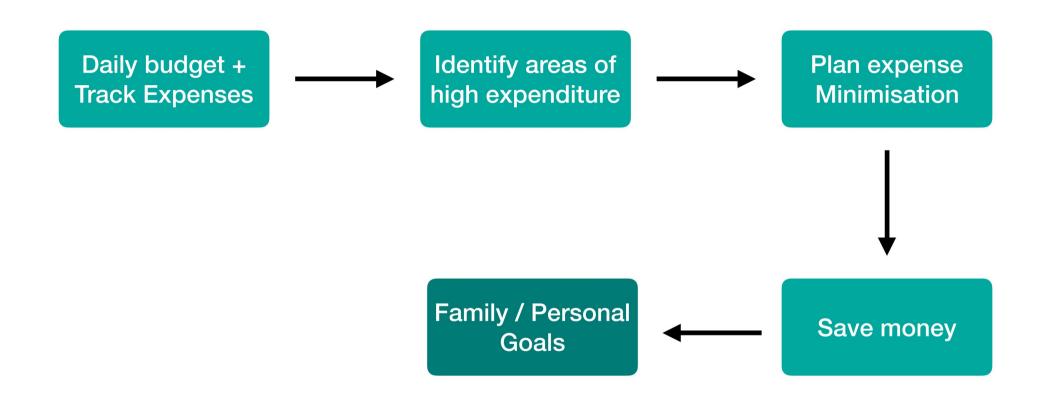


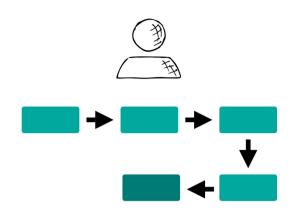
Identify areas of high expenditure

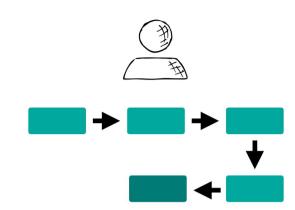
Plan expense Minimisation

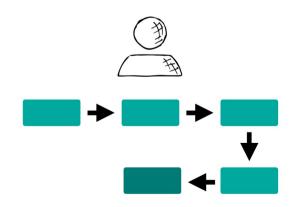
Family / Personal Goals

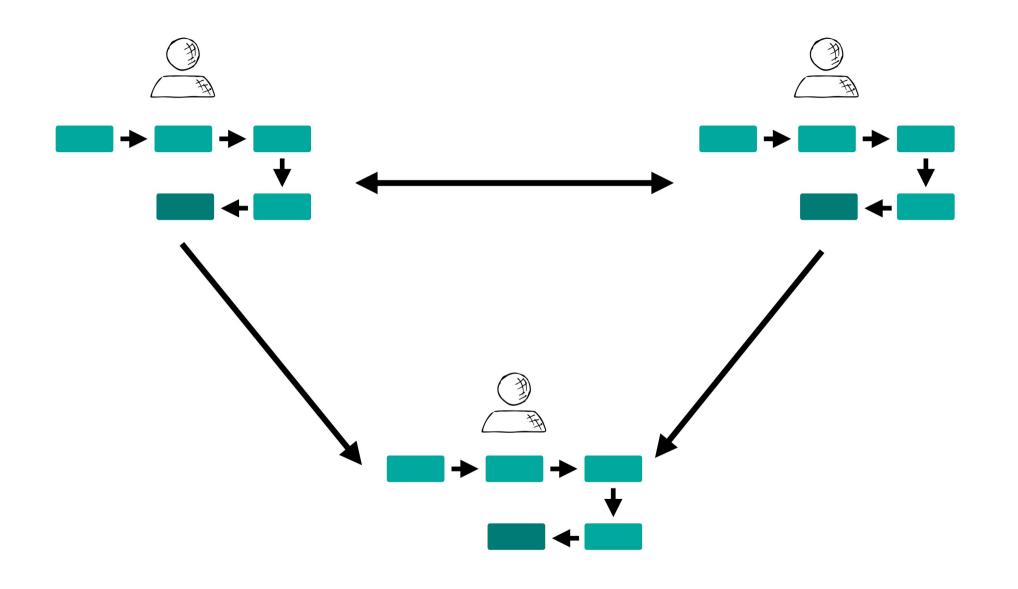












- . Setting daily budget
- . Daily expense tracking
- . Shared across family

BASIC

- . Setting daily budget
- . Daily expense tracking
- . Shared across family

- . Create personal / family saving goals
- . Collaborative saving among family members

EXPECTED

BASIC

- . Setting daily budget
- . Daily expense tracking
- . Shared across family

- . Create personal / family saving goals
- . Collaborative saving among family members

- . Understand financial habits of family members& respond
- . Support / encourage personal saving goals

AUGMENTED

EXPECTED

BASIC

- . Setting daily budget
- . Daily expense tracking
- . Shared across family

- . Create personal / family saving goals
- . Collaborative saving among family members

- Understand financial habits of family members& respond
- . Support / encourage personal saving goals

- . Financial consciousness
- . Saving goal oriented financial education

POTENTIAL

. Shared across family



personal saving goals

. Financial

consciousness

. Saving goal oriented

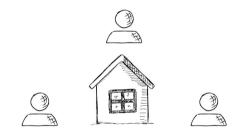
financial education

. Use existing FinLit ecosystem

. Social support system

. Support / encourage

Service Ecosystem



Service Ecosystem



Service Ecosystem

















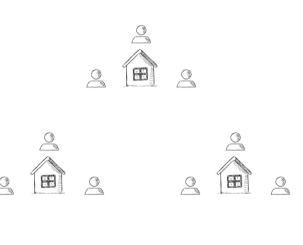
























Service Curators









- Daily budgeting
- Daily expense tracking





Service Curators









- Daily budgeting
- Daily expense tracking
- Personal saving goals





Service Curators

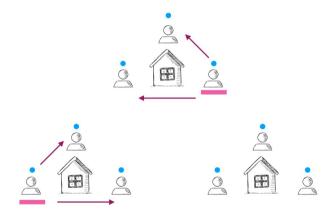








- Daily budgeting
- Daily expense tracking
- Personal saving goals



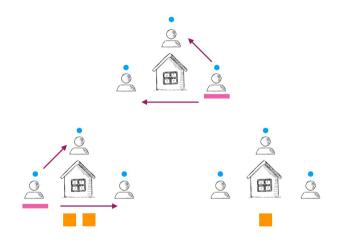
Service Curators











- Daily budgeting
- Daily expense tracking
- Personal saving goals

FAMILY LEVEL

- Family saving goals

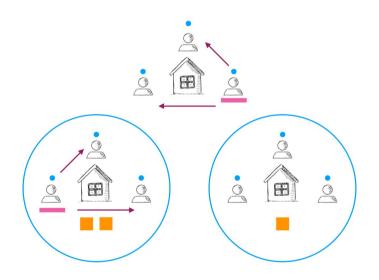
Service Curators











Service Curators

Service Helpline

INDIVIDUAL LEVEL

- Daily budgeting
- Daily expense tracking
- Personal saving goals

FAMILY LEVEL

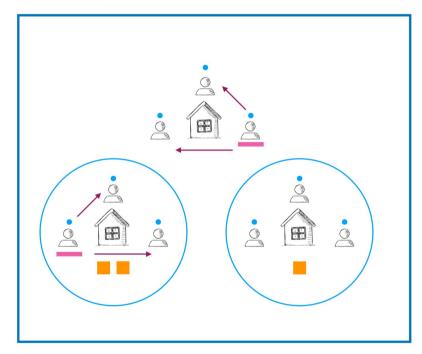








Service Users



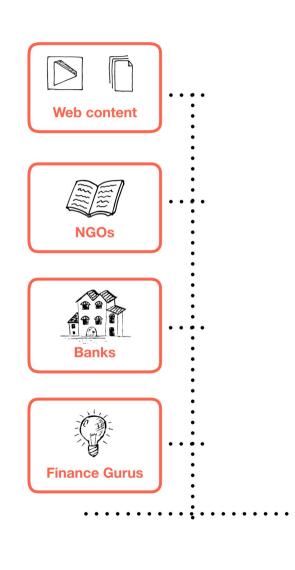
Service Curators

Service Helpline

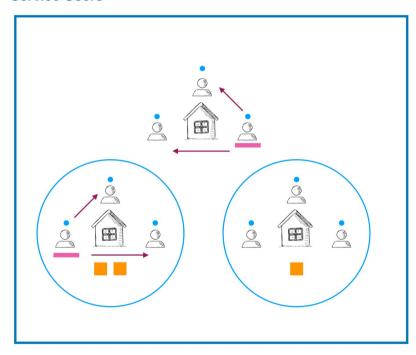
INDIVIDUAL LEVEL

- Daily budgeting
- Daily expense tracking
- Personal saving goals

FAMILY LEVEL



Service Users



INDIVIDUAL LEVEL

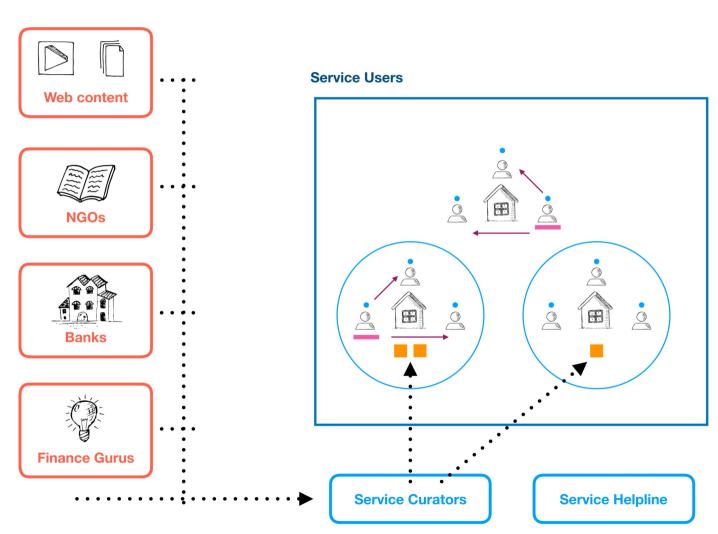
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- Personal saving goals

FAMILY LEVEL

- Family saving goals

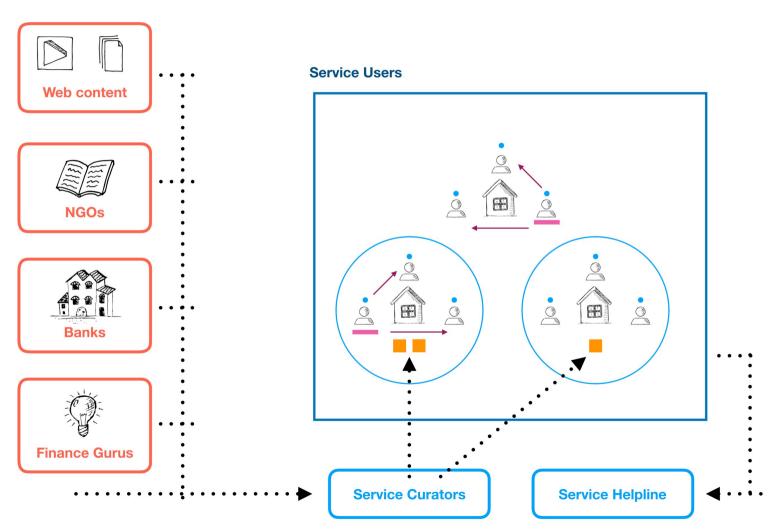
Service Curators

Service Helpline



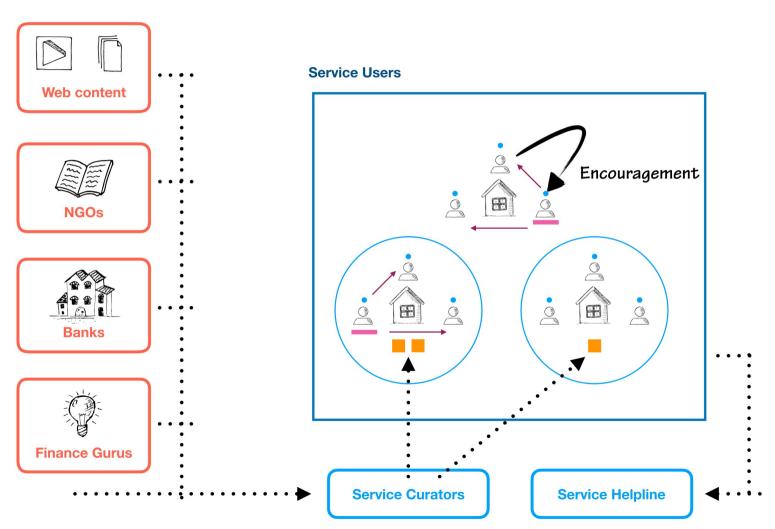
- Daily budgeting
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FAMILY LEVEL



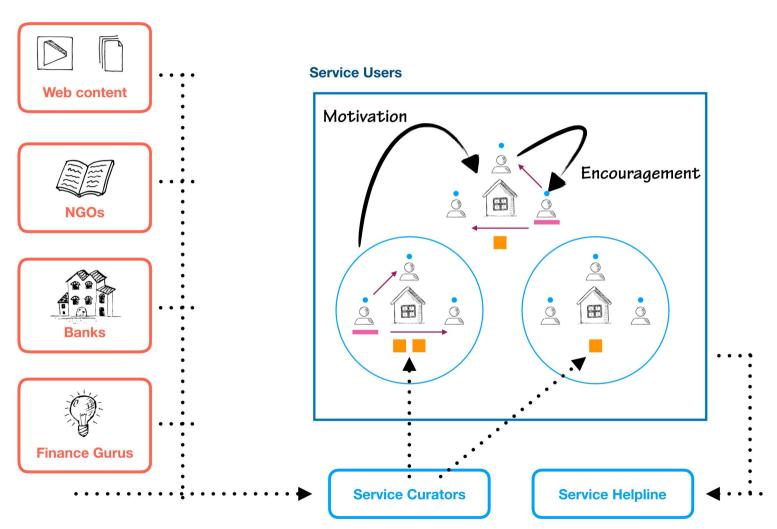
- Daily budgeting
- Daily expense tracking
- Personal saving goals

FAMILY LEVEL



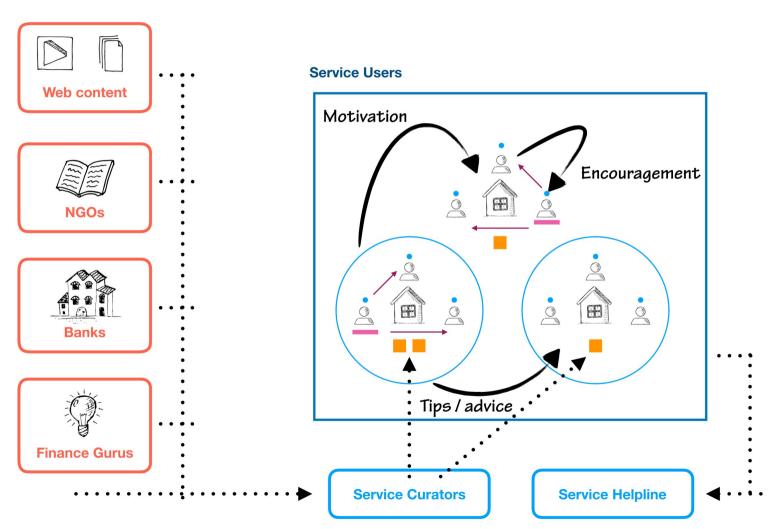
- Daily budgeting
- Daily expense tracking
- Personal saving goals

FAMILY LEVEL



- Daily budgeting
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FAMILY LEVEL



- Daily budgeting
- Daily expense tracking
- Personal saving goals

FAMILY LEVEL

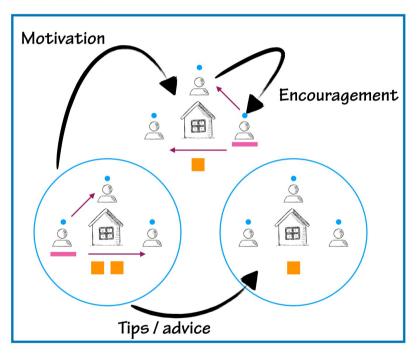






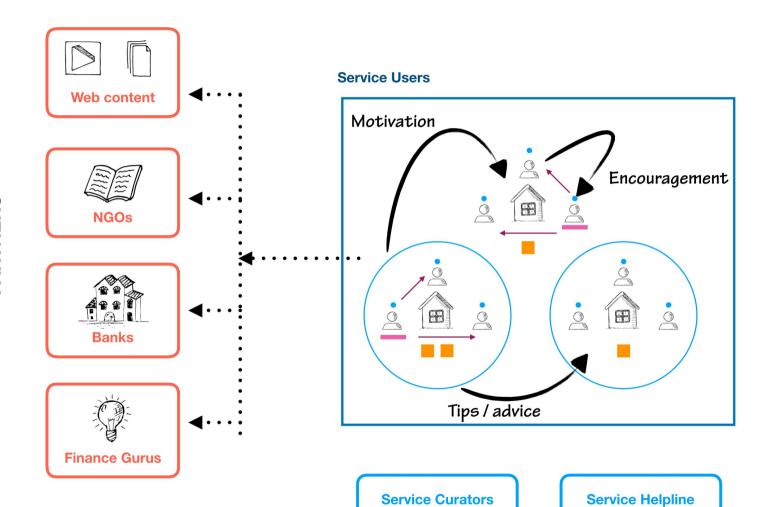


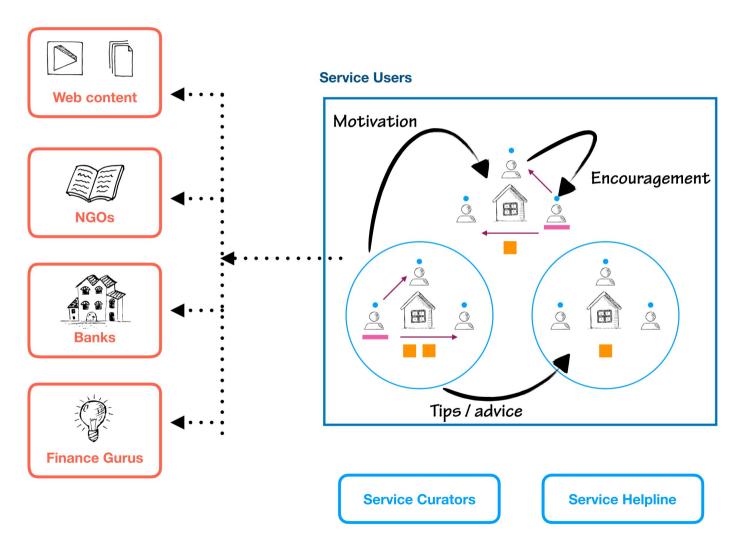
Service Users



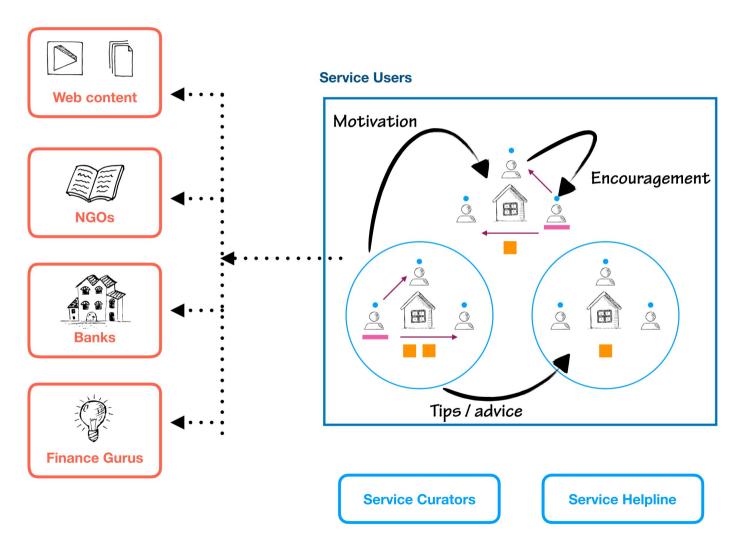
Service Curators

Service Helpline

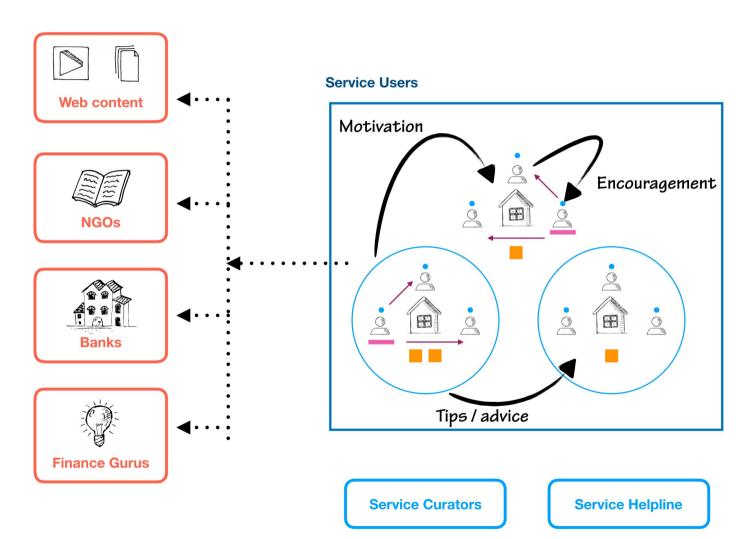




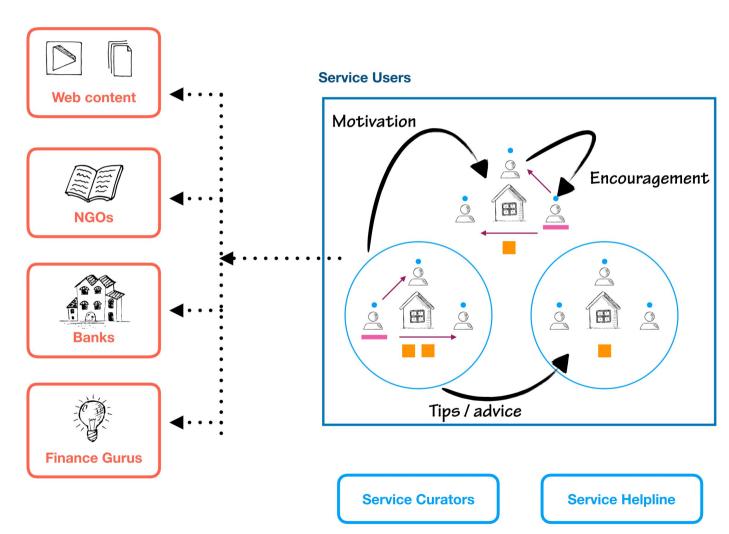
- What is most important to people?



- What is most important to people?
- Top saving goals

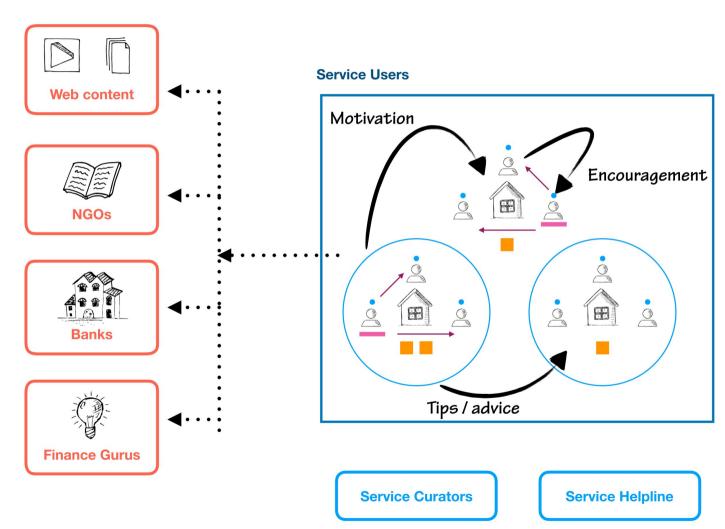


- What is most important to people?
- Top saving goals
- Location based information



- What is most important to people?
- Top saving goals
- Location based information

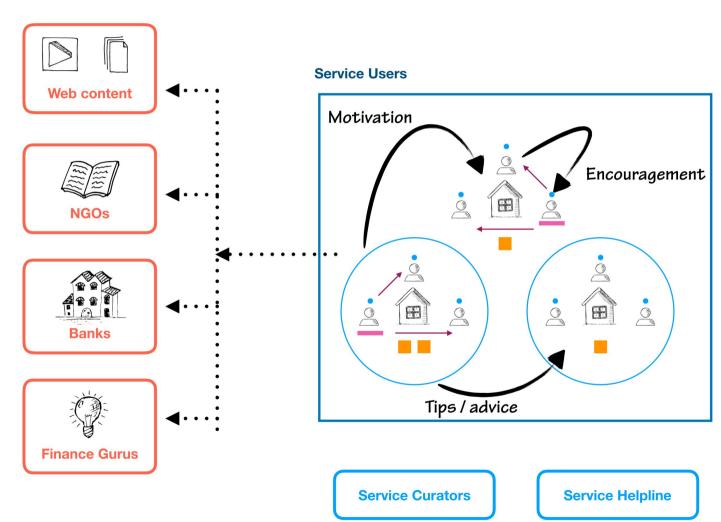
PARTNER OPPORTUNITIES



- What is most important to people?
- Top saving goals
- Location based information

PARTNER OPPORTUNITIES

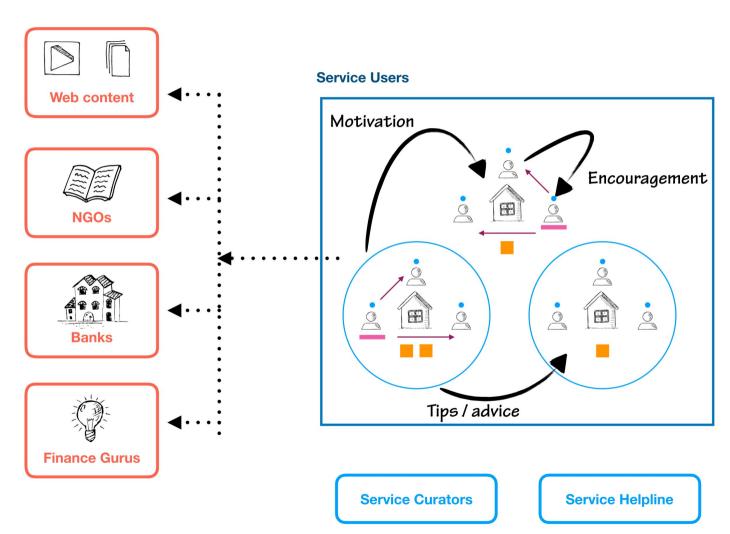
- Create more focused content



- What is most important to people?
- Top saving goals
- Location based information

PARTNER OPPORTUNITIES

- Create more focused content
- Organise education camps in locations of high activity



- What is most important to people?
- Top saving goals
- Location based information

PARTNER OPPORTUNITIES

- Create more focused content
- Organise education camps in locations of high activity
- Set instructions of camps/classrooms accordingly

Critical Service Encounters







Praveen



Bheem



Jay



Nilesh



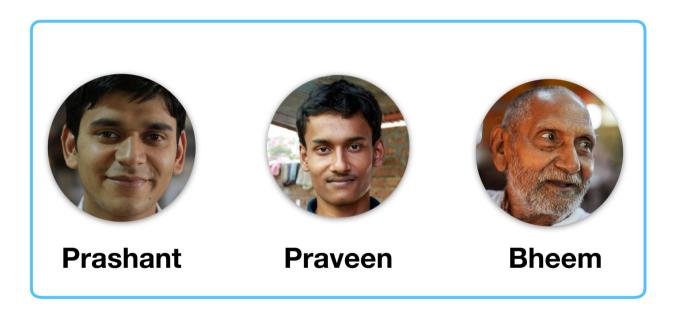
Prashant

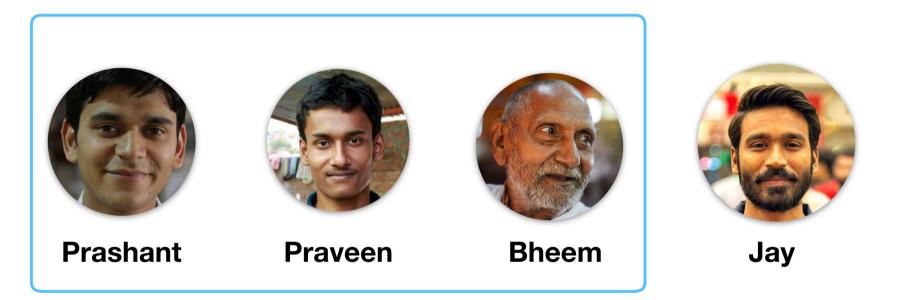


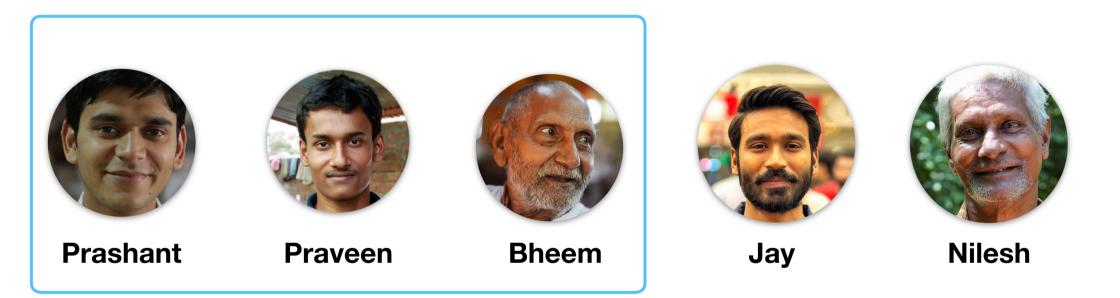




Praveen







Pre-service **Encounter**

Service Encounter Post-service **Encounter**

Pre-service Encounter

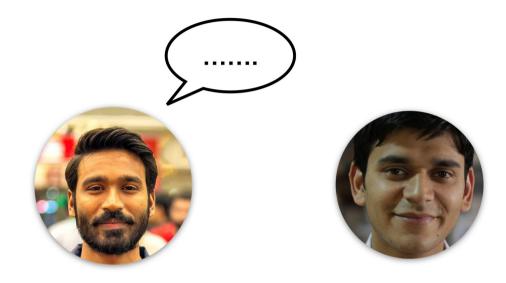


Pre-service Encounter



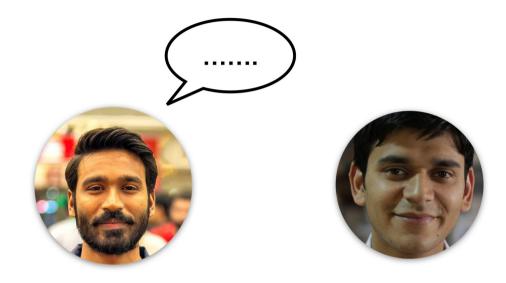


Pre-service Encounter



Jay tells Prashant about this new service he got invited to by a friend

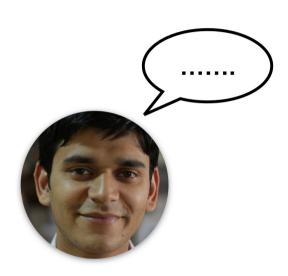
Pre-service Encounter



Jay tells Prashant about this new service he got invited to by a friend

Pre-service Encounter





Invite only? Prashant is curious to know about the service and how it can help him!

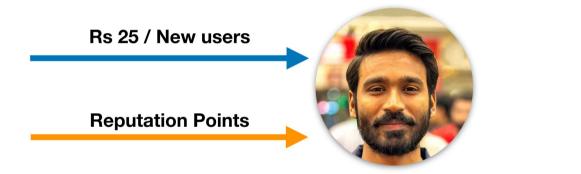
Pre-service Encounter





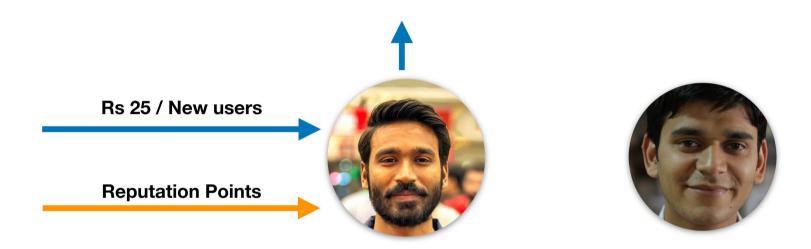
Failure Situation: Jay is not motivated enough to explain the value of the service or to invite Prashant on the new service

Pre-service Encounter

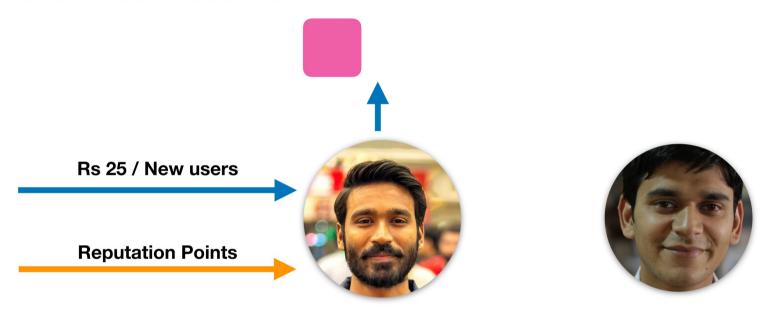




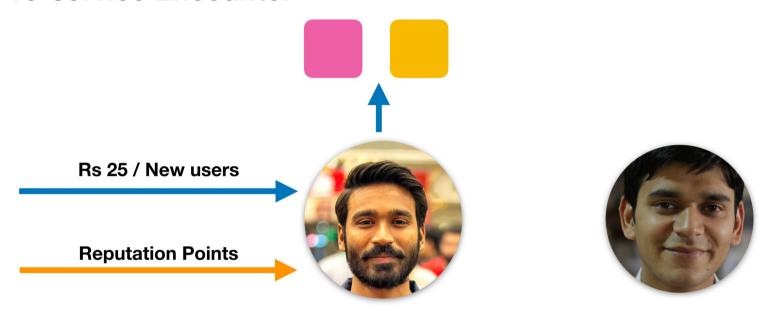
Pre-service Encounter



Pre-service Encounter



Pre-service Encounter



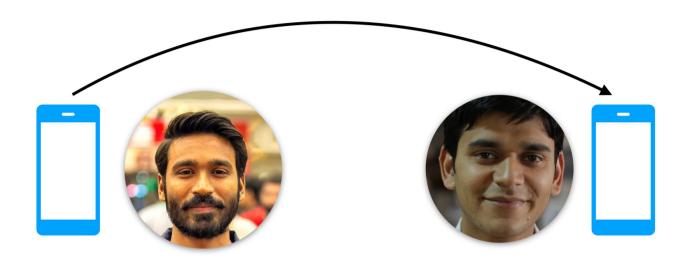
Service Encounter





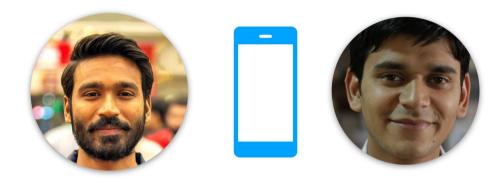
Jay download's the app on Prashant's phone

Service Encounter



Jay sends an invite link over WhatsApp

Service Encounter



Jay fills up the onboarding form. explains the features of the app and the overall service

Service Encounter







Failure Situation: Prashant finds it difficult to understand the service (might not use)

Service Encounter



Failure Mitigation: If new user is active for 7 consecutive days, invitee earns reputation points

Onboarding success metrics are determined by engagement patterns of existing users (Andrew Chen)

Service Encounter





Jay explains the service - how to send invites, privacy settings etc.

Post-Service Encounter: Case 1





Failure Situation: Prashant uninstalls the app or is inactive the next day

FAILED ON-BOARDING

Failure Mitigation: Notify Jay about Jay's absence



Prashant sees the benefit of the app and decides to invite his family

SUCCESSFUL ON-BOARDING

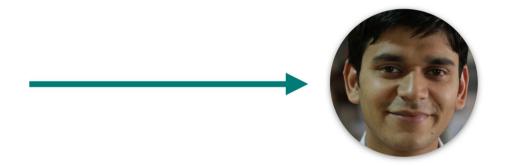
Pre-Service Encounter: Case 1



Next day Prashant is not very excited about the new app

Failure Situation: Might not create a daily budget goal

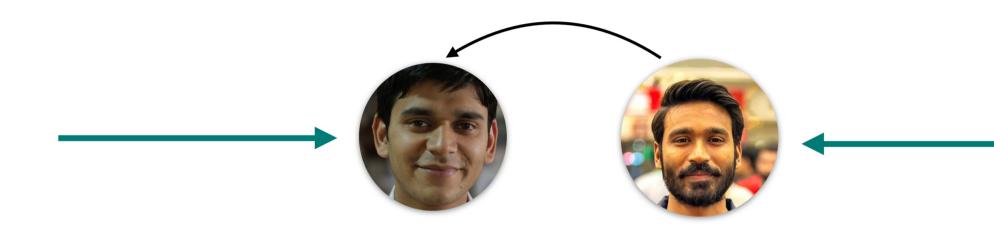
Service Encounter: Case 1



Failure Mitigation: Notify Prashant to create a budget goal & also notify Jay

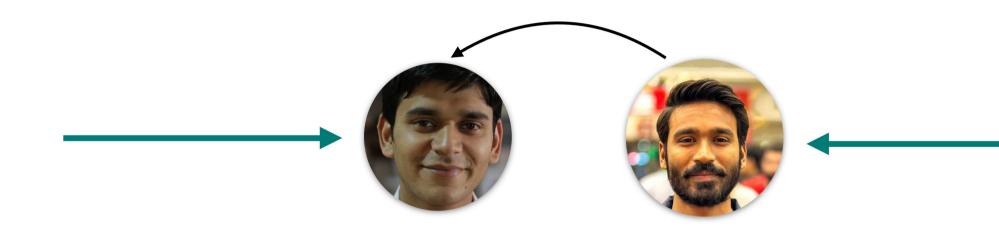
Failure Situation: Prashant is irritated by the notification and ignores it

Post-Service Encounter: Case 1



Failure Mitigation: Notify Jay to initiate a conversation

Post-Service Encounter: Case 1



Failure Mitigation: Notify Jay to initiate a conversation

Failure Situation: Still doesn't create a daily budget

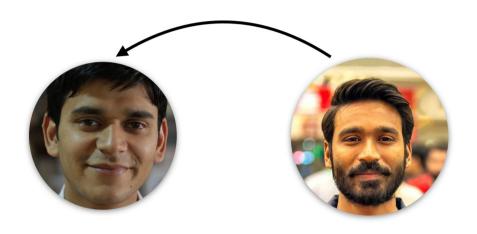
Pre-Service Encounter: Case 2



Prashant creates a daily budget goal

Appreciate Prashant, make Jay aware of it

Pre-Service Encounter: Case 2



Prashant creates a daily budget goal

Appreciate Prashant, make Jay aware of it Jay appreciates Prashant over WhatsApp

Post-Service Encounter: Case 2(a)



Prashant fails to meet daily budget goal

Encourage Prashant, make Jay aware of it

Jay encourages Prashant over WhatsApp

Post-Service Encounter: Case 2(b)



Prashant meets daily budget goal

Appreciate Prashant, make Jay aware of it

Jay appreciates Prashant over WhatsApp

Critical Service Encounters: Missing / not creating daily budget targets

Critical Service Encounters: Missing daily budget targets

Pre-Service Encounter



Jay doesn't create / misses daily budget target for 4 days

Failure Situation: Jay not at all motivated to set budget goals (Reasons Unknown)

Failure Mitigation: Notify Prashant about it

Critical Service Encounters: Missing daily budget targets

Service Encounter



Prashant gets the notification about Jay's inactiveness

Failure Situation: Prashant ignores the notification

Failure Mitigation: Increase reputation points as a function of inactiveness

Post-Service Encounter: Case 1

Post-Service Encounter: Case 2

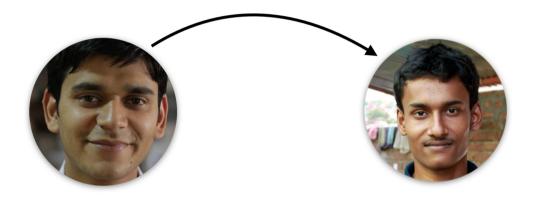


Failure Situation: Prashant had a quarrel few days ago and is not talking to Jay



Prashant calls up Jay and inquires about him

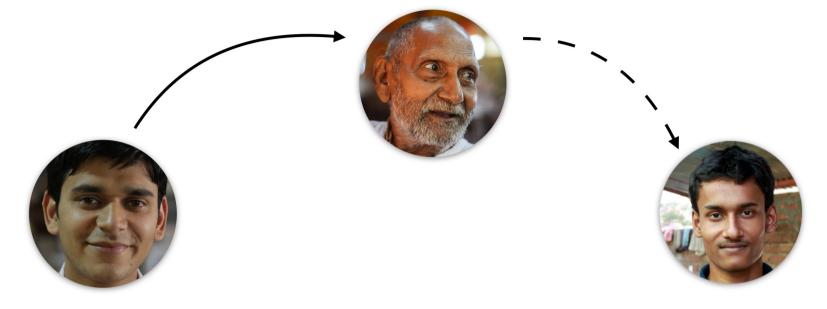
Critical Service Encounters: Inviting Family Members (after 3 weeks)



Prashant tells his brother Praveen about this service

Failure Situation: Prashant is the youngest child. Nobody takes him seriously

Pre-Service Encounter



Failure Mitigation: Prashant knows that his father can convince his brother

Failure Situation: Prashant is the youngest child. Nobody takes him seriously

Service Encounter: Case 1



Prashant searches for people in his phone book who uses the service

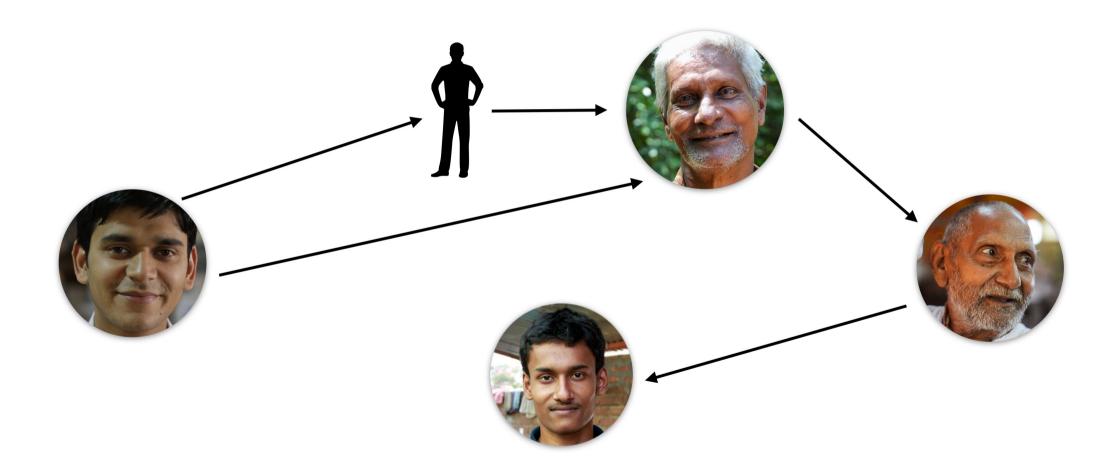
Failure Situation: Prashant finds no one who uses the service



Prashant searches for people in his phone book who uses the service

Opportunity: Prashant finds his neighbour on the service

Post-Service Encounter



Post-Service Encounter



Post-Service Encounter: Case 1

Post-Service Encounter: Case 2



Failure Situation: Praveen doesn't join the service at all

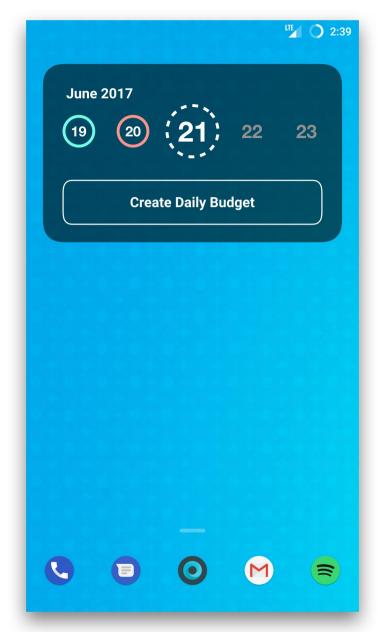


Praveen learns the value of the service & joins SUCCESSFUL ON-BOARDING

Scenarios



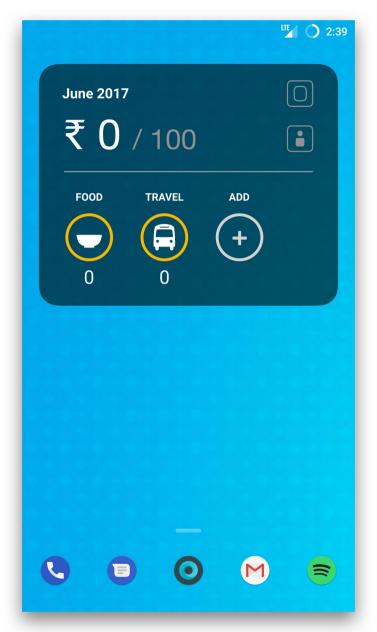










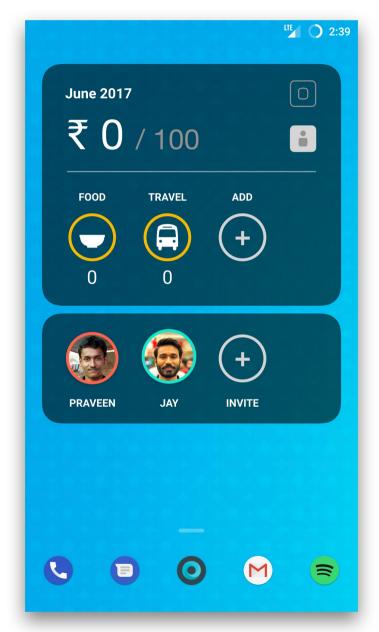




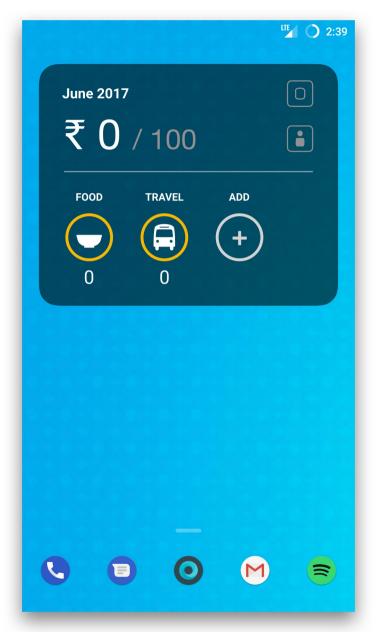


Launches main app





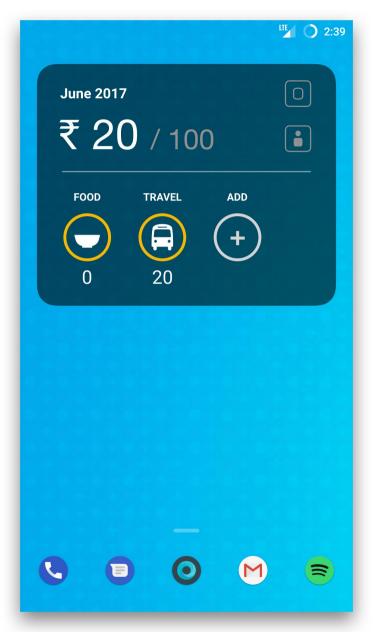














← Create Category

Category Name

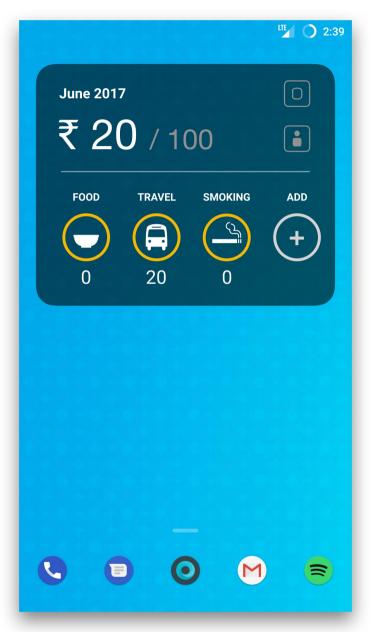
Smoking

Choose Icon

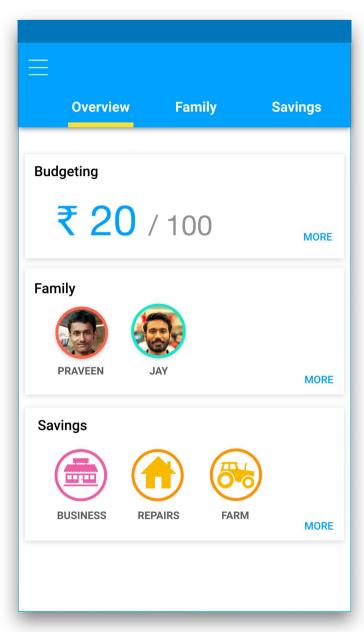


ADD CATEGORY



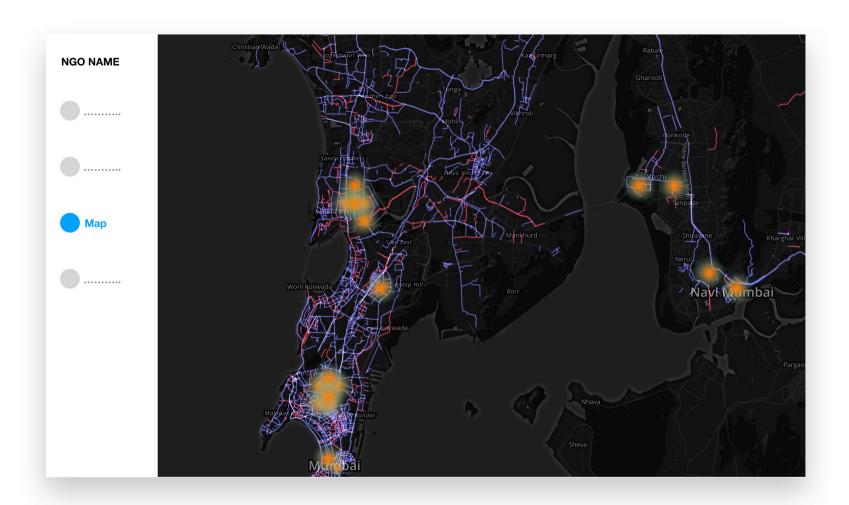






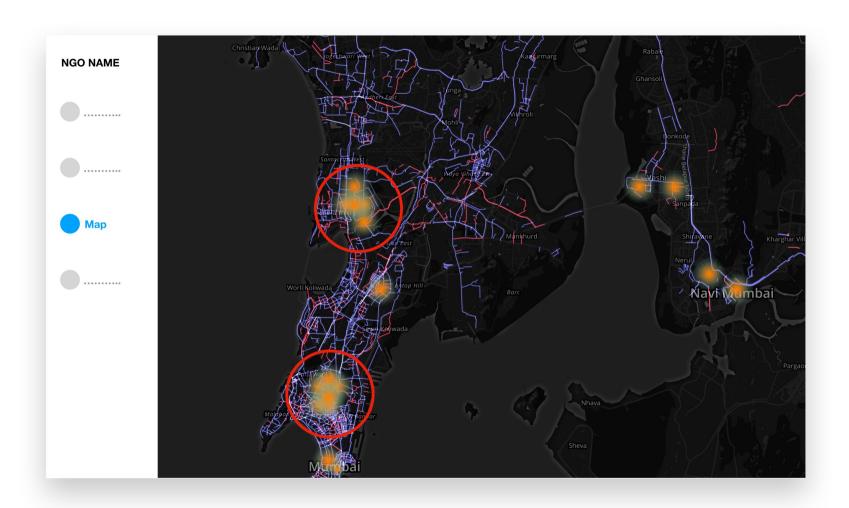


NGOs





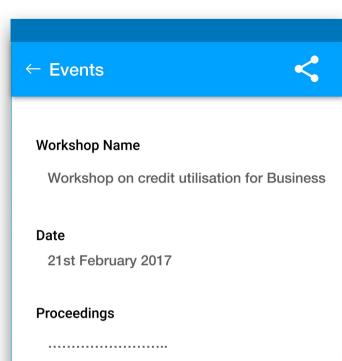
NGOs











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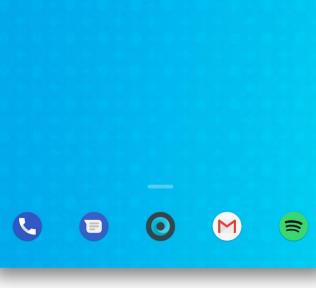
ATTEND



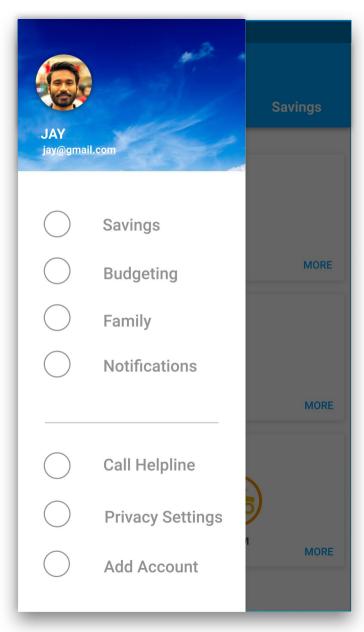


One of your savings goal crossed 10000, would you like to open a bank account?

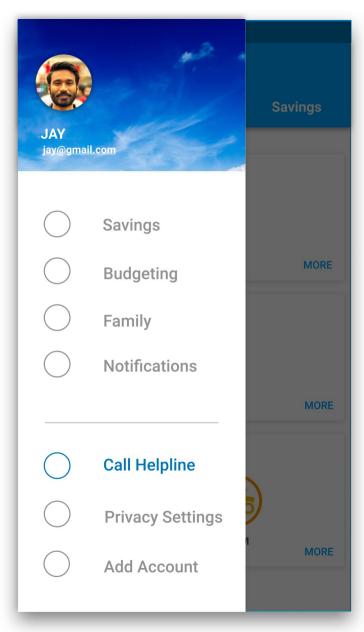
MORE

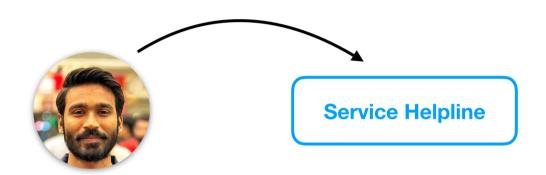


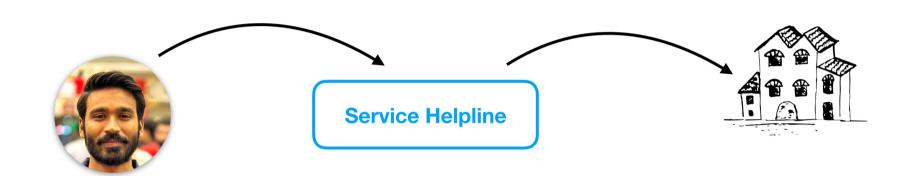


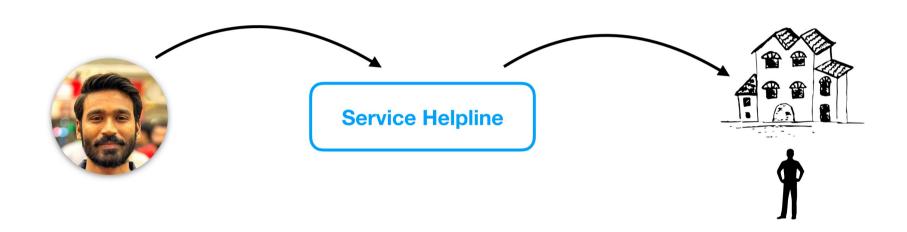


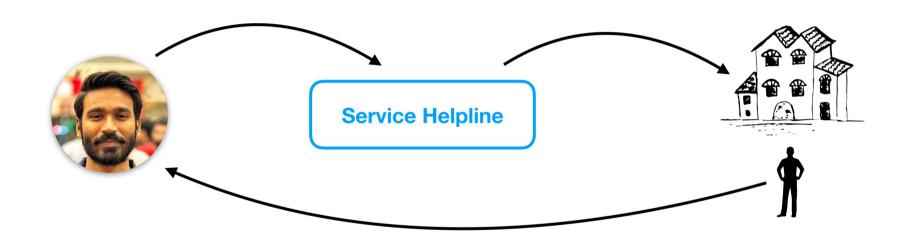


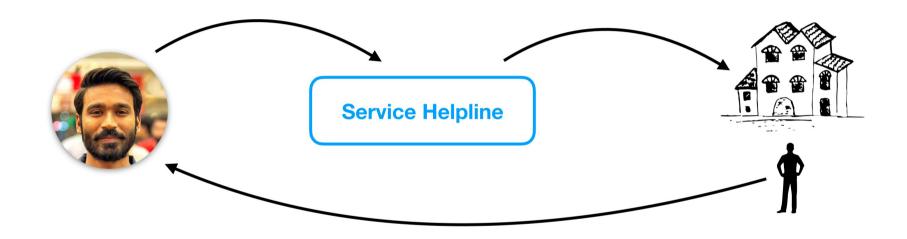












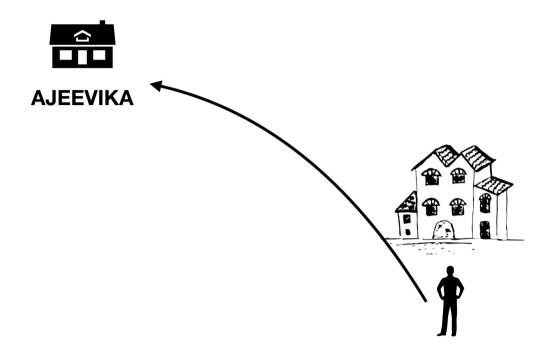
Failure Situation: Jay doesn't have id documents



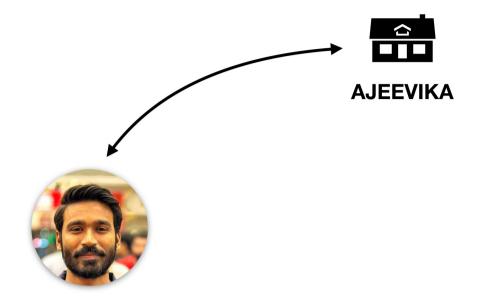
Service Helpline



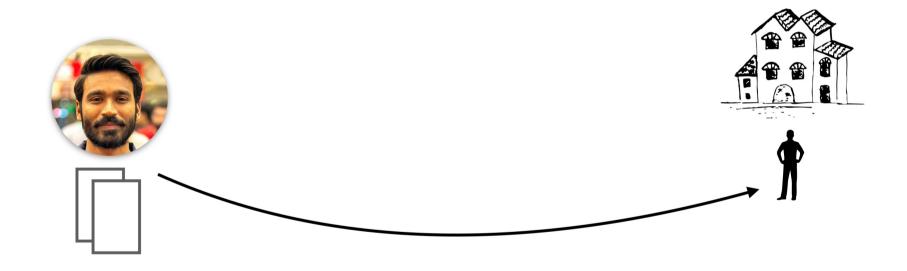
Service Handover

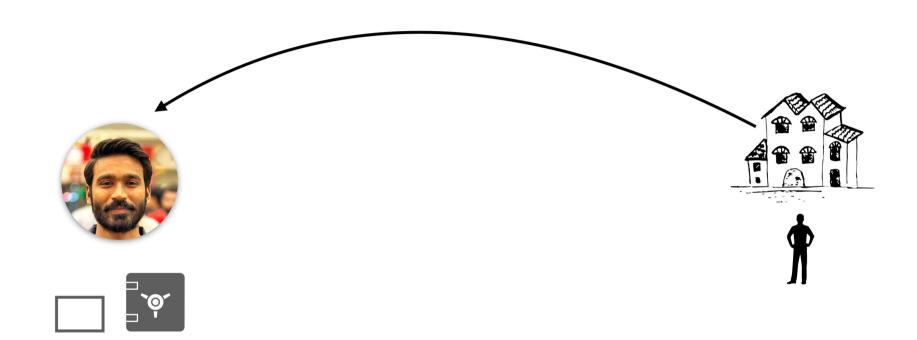




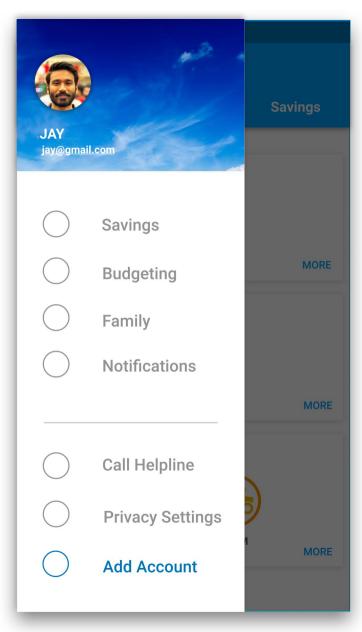








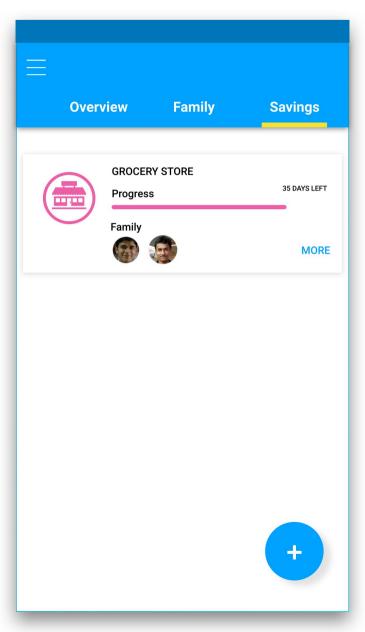






← Integrate Account				
Account Holder Name				
Account Number				
IFSC Code				
Create UPI Pin				
ADD ACCOUNT				







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`	OI Gal		

Goal Name

Goal Type

Goal Category

Goal Target

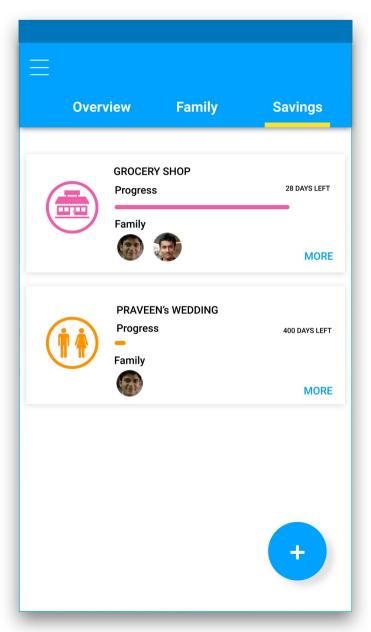
Add Family Members





ADD ACCOUNT





!!!!



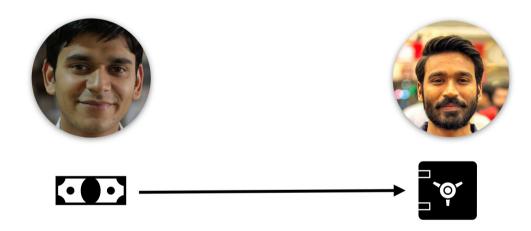
































← Praveen's wedding (Family Goal)



Praveen's Wedding

GOAL COMPLETED IN 300 DAYS

Amount in Savings Goal

₹ 100000

Family







Invitee Reward

₹1000

ADD

Reputation Points

300 pts

REDEEM

Withdraw Amount

100000

Service charge: ₹ 300

DEPOSIT TO BANK



← Praveen's wedding (Family Goal)



Praveen's Wedding

GOAL COMPLETED IN 300 DAYS

Amount in Savings Goal

₹ 100000

REMOVE

Family







Invitee Reward ₹ 1000

Reputation Points 300 pts CANCEL

Withdraw Amount

101000

Service charge: ₹ 150 (After 50% deduction)

DEPOSIT TO BANK

Service Comparison

	Expense Tracking	Budgeting	Bank Account	Saving	Social Saving	Financial Advisory	Ecosystem Support	Financial Habits
Walnut	Yes	Yes	No	No	No	No	No	No
Wally	Yes	Yes	No	Yes	No	No	No	No
Mint	Yes	Yes	No	Yes	No	No	No	No
PocketGuard	Yes	Yes	No	No	No	No	No	No
Albert	No	No	No	Yes	No	Yes	No	No
SmartyPigs	No	No	No	No	Yes	No	No	No
Acorns	Yes	No	Yes	Yes	Yes	No	No	No
HomeBudget	Yes	Yes	No	No	No	No	No	No
Folio	No	No	Yes	Yes	No	No	No	No
Thriv	No	No	No	Yes	No	No	No	No
Proposed Service	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

Service Evaluation

Evaluation: Survey

- 1. Do you feel it is necessary to know your family member's financial habits?
- 2. Do you feel goal-based savings is better than generic saving?
- 3. Do you feel family members will collaboratively save for common goal?
- 4. Do you feel that your family members will save in your personal goals?
- 5. Do you feel the need to talk to experts for financial advice?
- 6. Do you knowing where your money is going will help you cut expenses?

Evaluation: Survey Answers

	T1	T2	Т3	T4
Q1	Yes	No	No	No
Q2	Yes	Yes	Yes	Yes
Q3	Yes	Yes	Yes	Yes
Q4	No	Yes	No	Yes
Q5	No	No	Yes	No
Q6	Yes	Yes	Yes	Yes

Users will take action when they see that family member is not budgeting or missed budgeting.

Intended Emotion:

Worry, concern

Intended Next Action:

Users will take action when they see that family member is not budgeting or missed budgeting.

Intended Emotion:

Worry, concern

Intended Next Action:

	Observed Emotion	Observed Next Action
T1	-	Do nothing
T2	Curious	Call
Т3	Concern	Call
Т4	Concern	Call

Users will take action when they see that family member missed monthly saving goal.

Intended Emotion:

Worry, concern

Intended Next Action:

Users will take action when they see that family member missed monthly saving goal.

Intended Emotion:

Worry, concern

Intended Next Action:

	Observed Emotion	Observed Next Action
T1	-	-
T2	-	-
Т3	-	Call
T 4	-	-

Users will motivate & appreciate when a family member creates a new personal / family saving goal.

Intended Emotion:

Happy, Inspired

Intended Next Action:

Appreciation call, message

Users will motivate & appreciate when a family member creates a new personal / family saving goal.

Intended Emotion:

Happy, Inspired

Intended Next Action:

Appreciation call, message

	Observed Emotion	Observed Next Action
T1	Нарру	Call
T2	Happy, Inspired	Message
Т3	Нарру	Message
T 4	Нарру	Whatsapp

Thank You