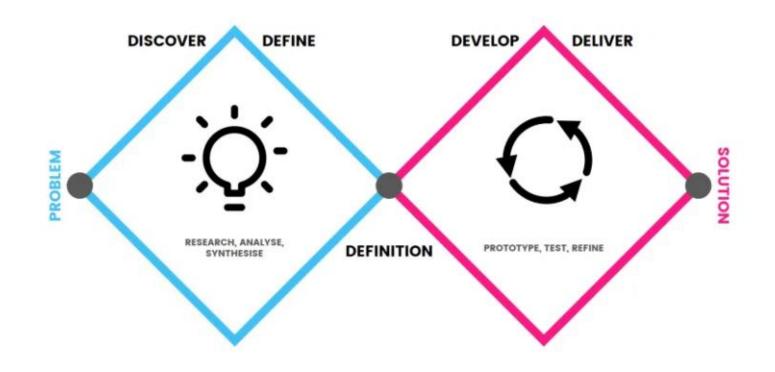


Making digital payments safe and easy for seniors

By: Stephanie Tiu



piecing it together...



Discovery

Landscape Research (Secondary Sources) User Research (Affinity Mapping & Card Sorting)

Testing: of concept

Usability Test & Key Calibration

Defining: the problem

HMW statement **User Personas**

Learnings

Market Lessons & Personal Takeaways

Finding: the solution

User Stories MoScow Priorisation Sitemap User flow

Birthing: of concept

Low Fidelity Mid Fidelity High Fidelity

Acknowledgements

SG seniors leads with highest digital payment adoption in Asia

Since the pandemic, Singapore has emerged as a pioneer in digital payment adoption among its senior citizens in Asia.

They have steadily increased their digital access and gadget ownership, as well as transacted online more.

This positive phenomenon can be linked to a confluence of factors, including widespread smartphone use, supportive government policies and robust financial institution engagement among others.

Security and falling for scams remain SG seniors' top concern

Compared to general population, local seniors are less confident in identifying scams.

So the government and banks have progressively rolled out extensive campaigns to teach seniors about secure online practices.

They include IMDA's 'Seniors Go Digital' programme and OCBC's 'Digital Silvers Programme', among others.

Growth rates among SG Seniors

38% Growth in home internet access 23% Growth in computer access

15% Growth in smartphone ownership

26% Growth in Singpass usage

23% Growth in mobile app

payments for inperson transactions 78%

Growth in e-payment for online transactions

Somewhat concerned about becoming a scam victim

Moderately confident about identifying scams **99%** Seniors aged

60 & above

44%

Seniors aged 60 & above **96%** General Population

52% General Population

Generally, seniors are less inclined to use digital payments for these top reasons

Lack of Tech Familiarity

Uncomfortable/ unsure about using new technologies, especially those involving financial transactions. They may find learning curve steep and prefer familiarity of traditional payment modes.

Security Concerns

Often targeted by scammers who exploit their trust and vulnerability. Concerns about data breaches, identity theft and online fraud also deter them from adopting digital payments.

Preference for Cash & Checks

Accessibility Issues

Long-standing habits of using cash and checks for their transactions. They may find these methods more tangible and reliable, particularly for budgeting and tracking expenses. Physical limitations or cognitive impairments can make using digital devices and apps challenging for some seniors. Small screen, complex interfaces and a lack of accessibility features may hinder their adoption.

Current solutions in market are mostly tailored for the general population:

Mobile Banking Apps

Most major banks in Singapore offer mobile apps with simple interfaces for checking balances, transferring funds and making payments. These include DBS, OCBC, UOB and others.

PayNow

Singapore's national transfer system allowing users to send and receive money using just a mobile number or NRIC/FIN number.

NETS

A widely accepted payment method in Singapore, NETS offers a mobile app for easy payments and top-ups.

QR Code-based Payments

Many merchants in Singapore accept payments via QR codes, including those generated by mobile banking apps and e-wallet platforms.

Others:

Digital Wallets (eg ApplePay, Google Pay, AliPay) Cryptocurrency (eg BltPay, Binance Pay) Buy Now, Pay Later (eg Atome, Fave Pay Later)

Their perceived pain points:

- Complex login/logout steps
- Non-intuitive user interface (routing to different layers with multiple steps)
- Small fonts and non senior-friendly colour scheme/graphics
- Unclear features/next steps for easy follow through
- Chatbot-based assistance that doesn't offer immediate solutions
 - (require DIY/self service)
- Live support/chat not available or not easy to locate for urgent requests such as report of scams/unauthorised login

The Challenge

NO customised digital payment solution for

seniors in terms of senior-friendly UX/UI to cater to their needs/preferences

A user interview was conducted with 5 seniors with differing tech savviness to uncover:

current digital payment usage motivations and pain points current experience desired experience

• Age

- Occupation
- Gadget used
- How tech-savvy do you consider yourself?
- Do you use digital payments? Why?
- (For non-users) What will motivate you to use?
- How often do you use digital payments?
- Which digital payment platforms do you use?
- What do you use the digital payments for?
- How would you rate your experience with your current digital payment platform(s)?
- What issues have you encountered?
- What are the most important factors for you in a digital payment platform?
- What features would you like to see in an improved digital payment platform?
- How likely would you switch to a new digital payment platform offering improved experience?
- Any other comments or suggestions?



User findings - Affinity Mapping & Card Sorting

Tech Is	ssues	Trust/	Privacy
Don't have a smartphone to use these apps	Not good with tech so digital payments are confusing	Feel like losing control of my money	l like the touch of paying with cash
Don't understand how digital wallets work	Don't trust all this digital stuff. It's too complicated	Like to keep track of my spending with cash	Prefer cash. It's real money in my hand.
l have trouble remembering all my passwords	What if the power goes out or my batt dies	Afraid of losing my money if I use card or phone	Don't want to rely on tech for everything
The website and apps are too complicated	Hard to keep up with all security/app updates	l'm worried about making mistakes	Don't understand all the fees and charges

Secu	arity	UX	/UI
Hackers/ scammers might steal my money	Don't want to share my personal info online	Apps are too cluttered and confusing	Many steps to complete a simple transaction
Not safe online. I prefer going to the bank	Don't trust companies with my data	Wish the fonts were larger and easier to read	Sometimes slow and laggy
Function	onality	Sup	port
Can't use in some stores or restaurants	Onality Wish I can use my card for more things	Sup Impossible to talk to a real person when I have a problem	port Online help is useless

How might we design and build a safe and easy-to-use payment platform for our seniors to encourage or increase their usage?

(for the non-digitally savvy to digitally-savvy)?

Selected User Insights for Concept Development

Caveat: This concept does not cover seniors with special needs and physical impairments/ conditions, as well as non-English options for now

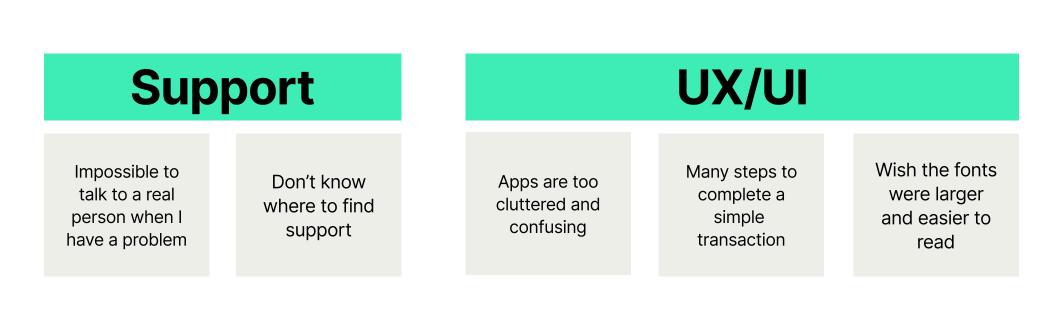
Trust/Security

Afraid of losing my money if I use card or phone

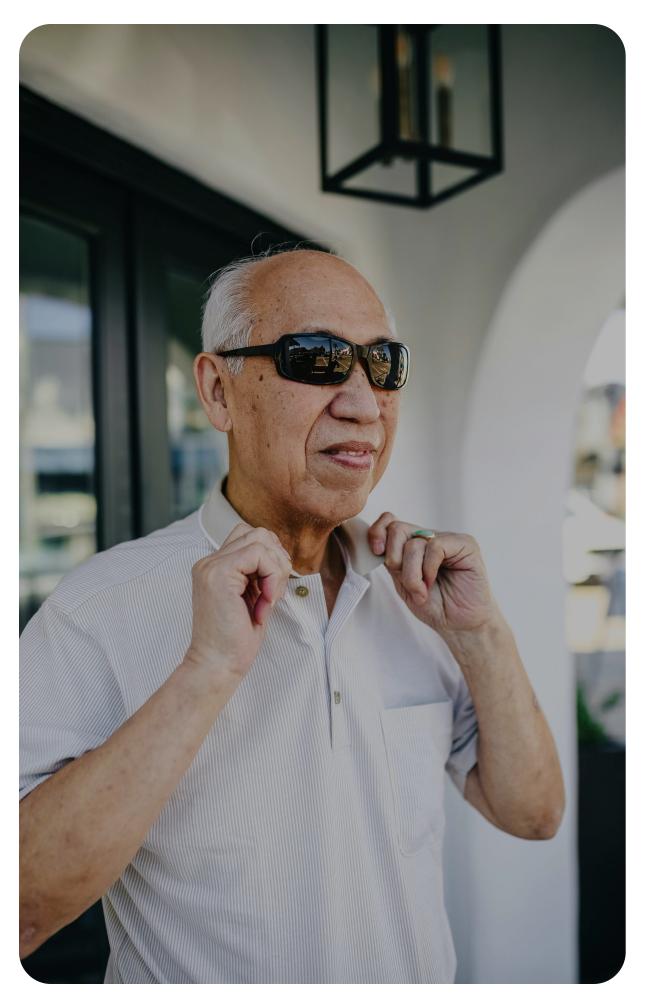
Hackers/ scammers might steal my money

defining the problem: the goal

The Goal



Uncle Lui



76, Married with Grandkids, Family Business Owner



- Limited internet usage, but likely uses IE or a basic browser if necessary
- Face-to-face meetings with financial advisors
- Traditional mail for correspondence
- Phone calls for inquiries

"Don't trust all this digital stuff. It's too complicated. I like to pay with cash."

Goals & Aspirations

- Secure financial future for family
- changes
- Preserve family traditions, values and bonds

Needs & Motivations

- Peace of mind for family's financial security
- Seeking personalised and trustworthy advice
- Building a legacy for future generations

- Landline phone, basic mobile phone for calls only Traditional watch
- Born and raised in a kampung (village), Uncle Lui experienced significant economic changes and growth during his lifetime
- He is a classic rags-to-riches self-made towkay (boss) who built a successful business in the manufacturing industry
- Growing up in a non-digital era, he has limited exposure to technology, preferring faceto-face interactions

• Maintain comfortable lifestyle without significant

• Maintaining independence and control over finances

Hobbies

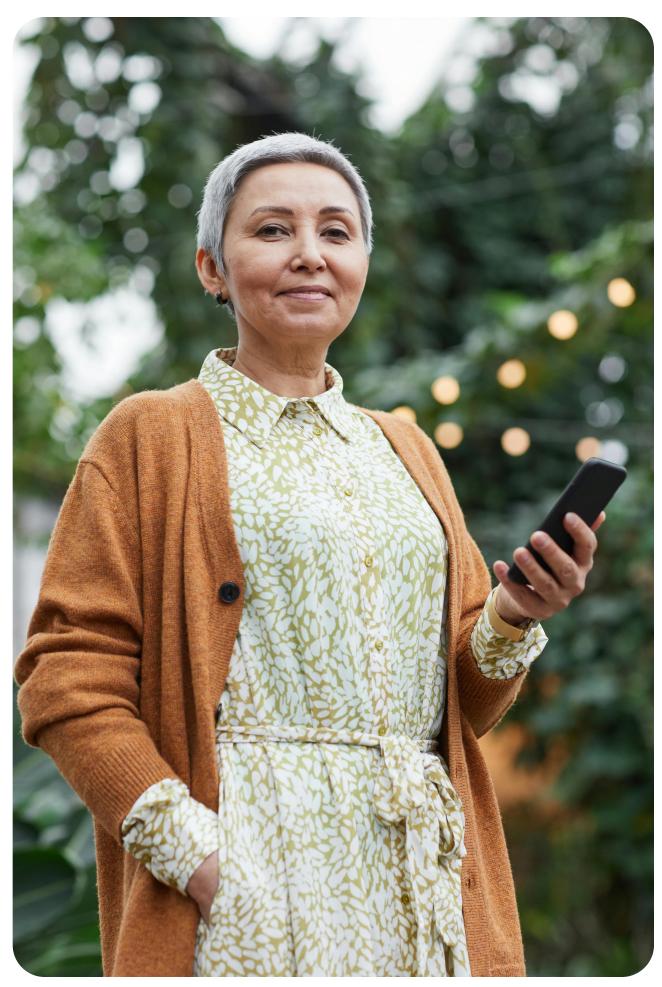
Karoke, Golf, Taichi, Kopi with kakis, Travelling with family, Playing with grandchildren

Frustrations & Challenges

- Difficulty understanding complex financial products
- Overwhelmed by technological advancements
- Lack of trust in online platforms
- Feeling isolated from younger generations due to technology gap...



Aunty Zai



68, Single, Former Teacher



- Chrome, Safari, or Firefox
- Online banking and financial management tools
- Social media platforms (eg Facebook, WhatsApp)
- Email for communication
- Online forums and communities

"Many steps to complete a simple" transaction. Wish the fonts were larger and easier to read."

Goals & Aspirations

- Maintain financial independence and security
- Stay connected with family and friends
- Explore new interests and hobbies
- Contribute to the community

Needs & Motivations

- Personal growth and development
- Staying active and engaged in life
- Helping others and giving back to the community
- Achieving financial stability for retirement



- Smartphone, tablet, laptop
- Smartwatch or fitness tracker

- Growing up in an urban environment, exposed to early technological advancements
- Worked in a knowledge-based profession as a long-time teacher and coach
- Continuously learning and adapting to new technologies

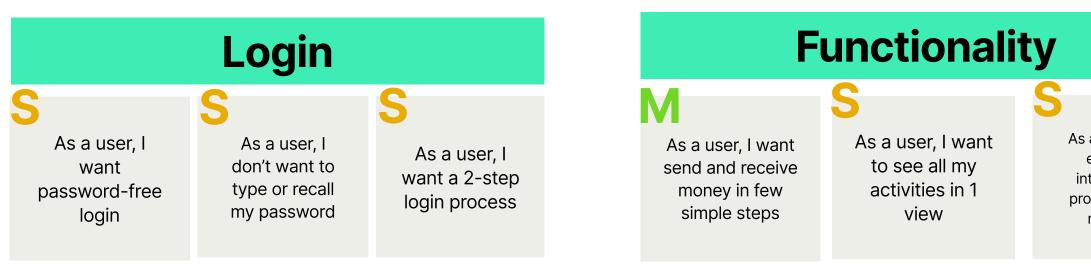
Hobbies

Painting, gardening, photography, travelling with family and friends, trekking, pilates, online learning, news and trend surfing, online discussions/chats

Frustrations & Challenges

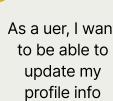
- Difficulty finding reliable information online
- Concerns about online scams and fraud
- Limited access to age-appropriate technology and services
- Feeling isolated from peers who are less tech-savvy...



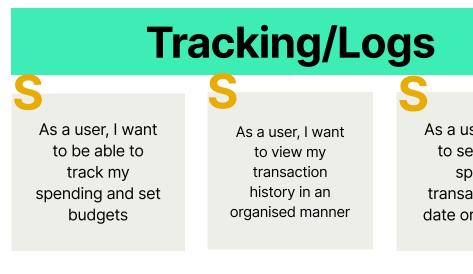


Settings/Profile S As a user, I want As a uer, I want to be able to

to manage my account settings and security preferences



As a user, I want to customise language, font size, and notification





As a user, I want embedded intelligence to prompt or guide next steps

Notification

As a user, I want to receive alerts or notifications when I approach my spending limit

As a user, I want reminders to do perform certain activities

Loyalty

As a user, I want loyalty programs that rewards frequent use

As a user, I want track my loyalty points and redeem them for rewards

As a user, I want to search for specific transactions by date or category

UI S Μ As a user, I want good reading font size

As a user, I want simple, opt-out features for those I don't use/ can disable

Security/Support

As a user, I want antiscam security features

Μ

As a user, I want support within 1 minute

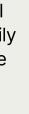
As a user, I want to easily contact live support

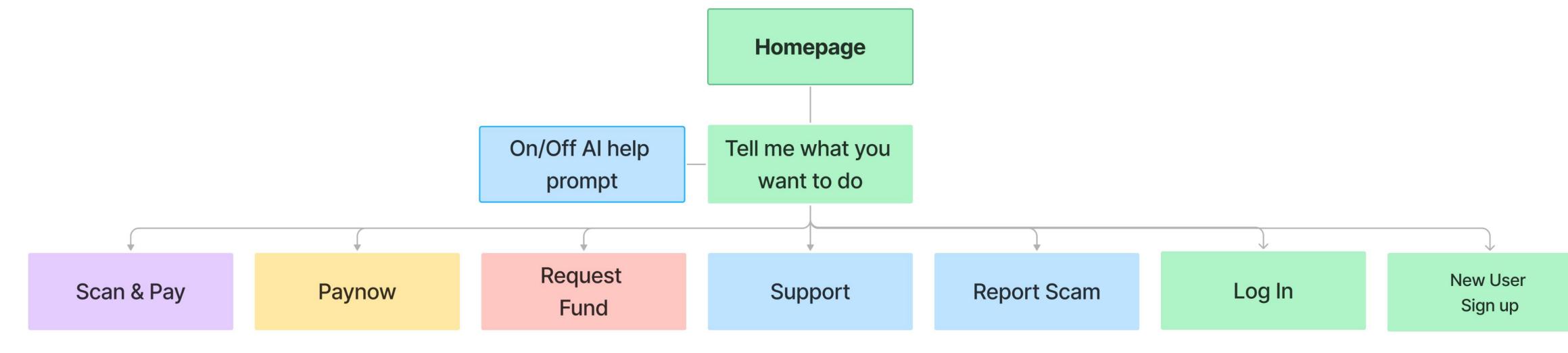
Onboarding/Edu

want videos on how to use the app

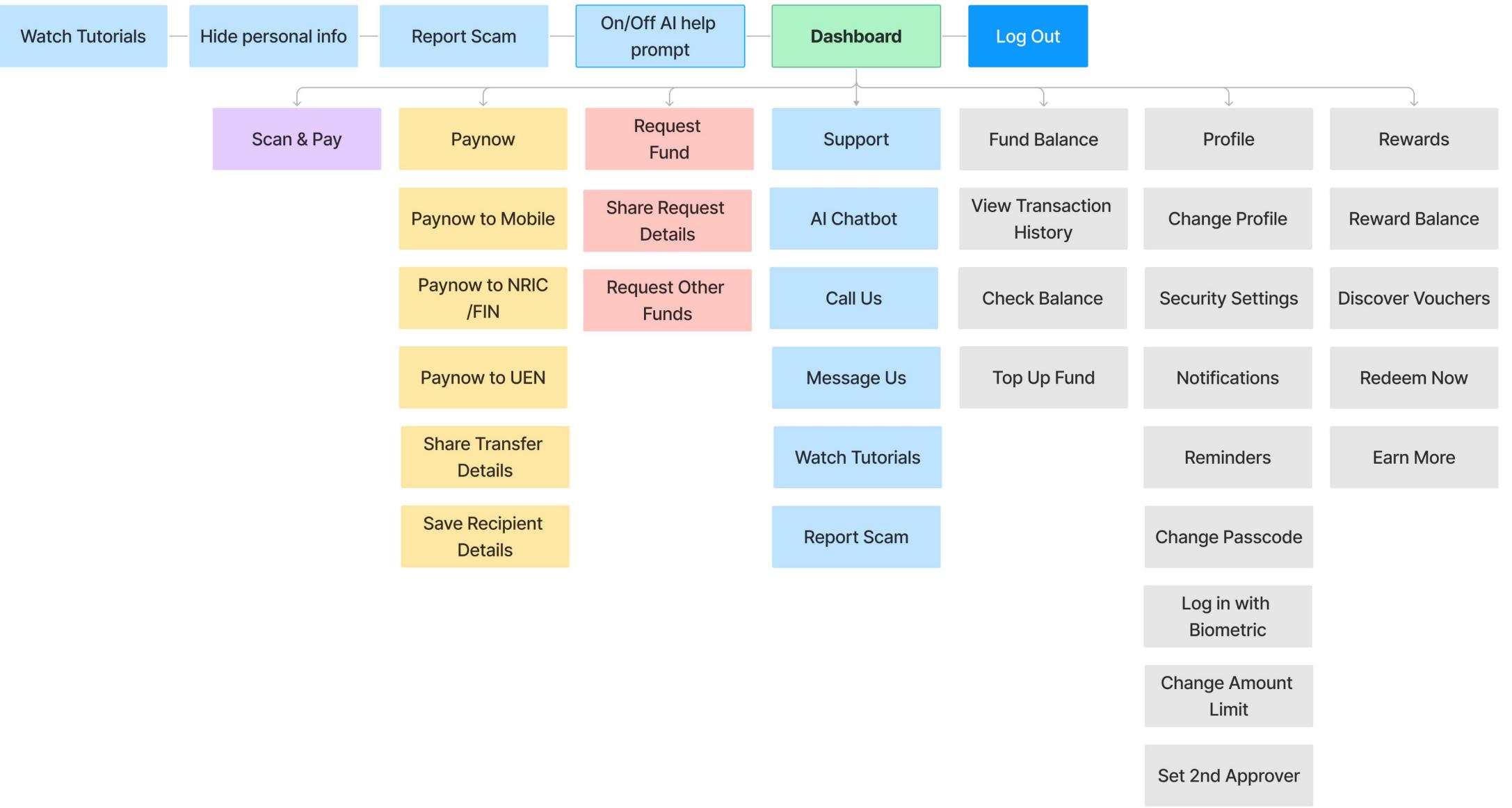
As a user, I want useful tips & features N Must have features S Should have features Could have features Won't have features W

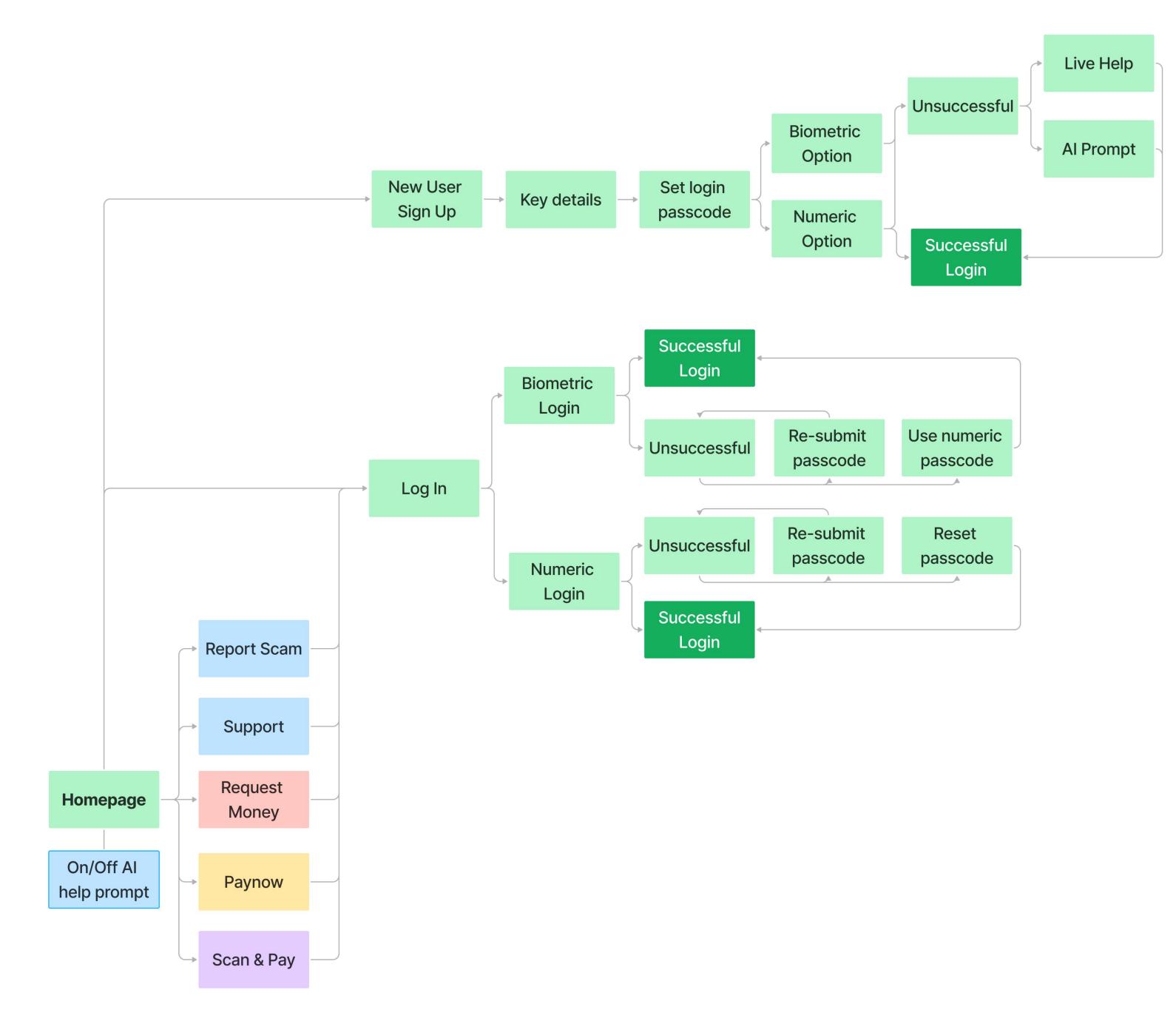










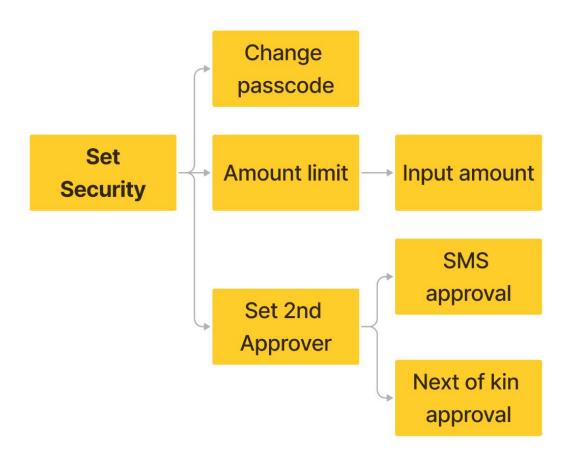


finding the solution: user flow > homepage





finding the solution: user flow > dashboard + security settings

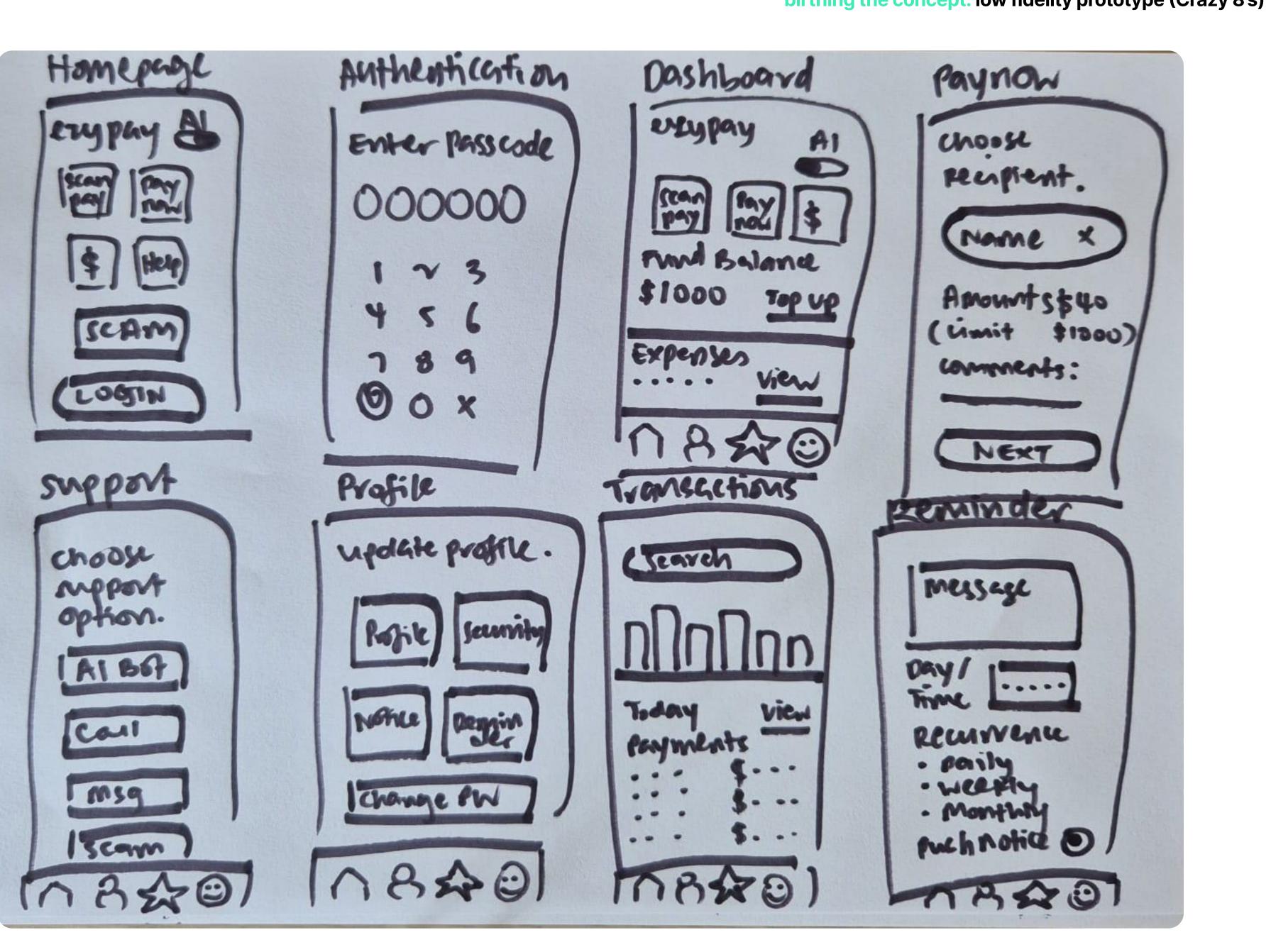




Targeted at senior users, this digital payment platform offers a simple, safe and ease-of-use experience to them

Key Homepage Features:

- Perform direct payments
 (Scan & Pay, Paynow, Request for Funds)
- Support
- Report Scam
- Login
- New User Sign Up



birthing the concept: low fidelity prototype (Crazy 8's)

Homepage:

- Perform direct payments (Scan & Pay, Paynow, Request for Funds)
- Support
- Report Scam
- Login
- New User Sign Up

Authentication (3 Ways):

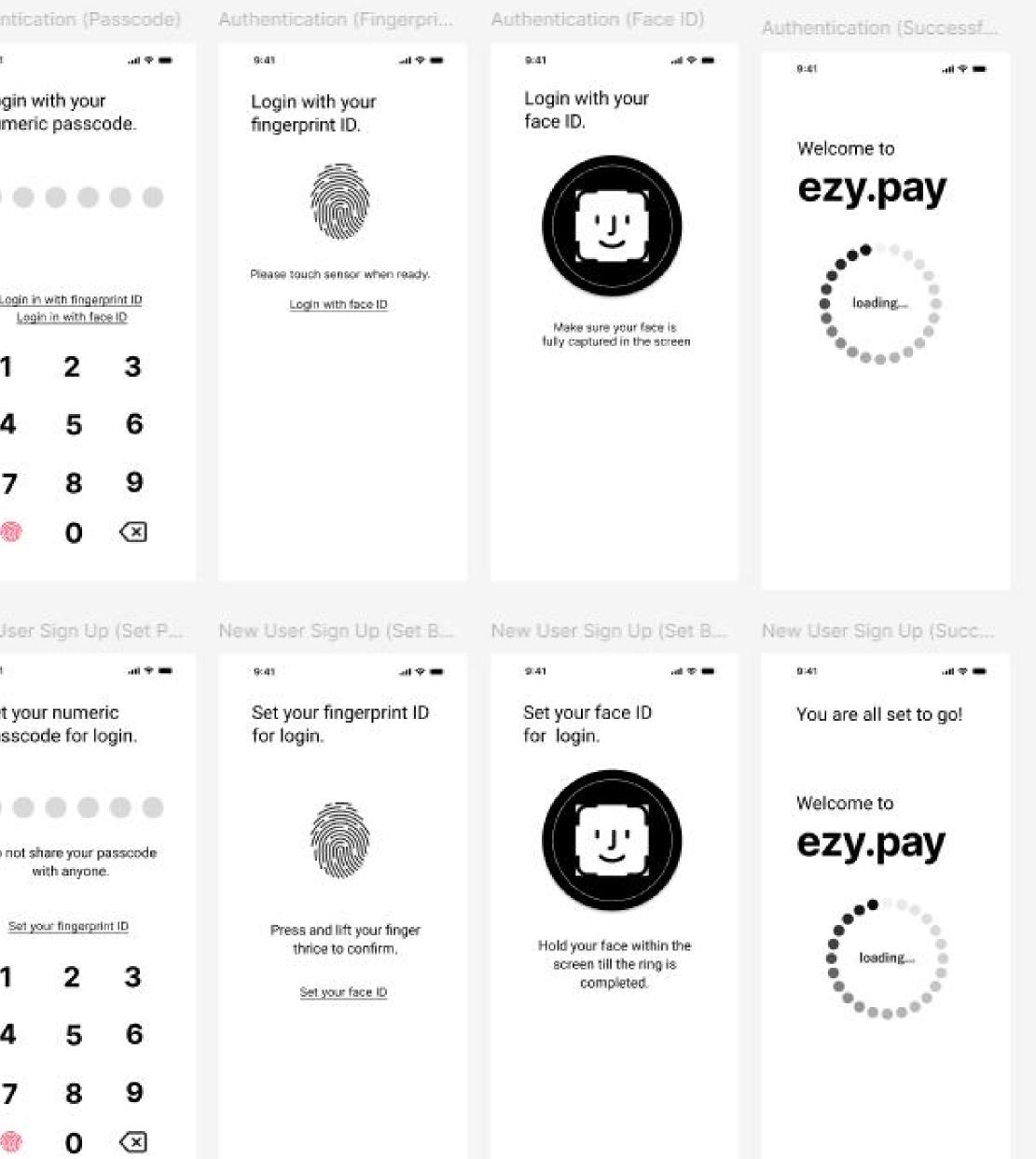
- Numeric passcode
- Fingerprint ID (biometric)
- Face ID (biometric)
- Up to 3 tries and account is locked
- Successful login will lead to dashboard
- For unsuccessful login, users can choose to reset passcode or call support hotline

New User Sign Up:

- Account Creation
- Set Numeric passcode, Fingerprint ID, Face ID
- Successful creation will lead to dashboard
- Unsuccessful creation will lead to user support

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birthing the concept: mid fidelity prototype > homepage + authentication + account creation



Dashboard:

- Key Transaction Functions
 (Scan & Pay, Paynow, Request Fund)
- View Fund Balance, Recent Expenses & Recent Receipts
- Salient Feature Callout (Logout, Report Scam, Hide Mode, Tutorials, Voice Al help toggle)

Transaction Functions:

- User selection of function
 (Scan & Pay, Paynow or Request Fund)
- Authentication or next steps are prompted
- Confirmation of payment or sent request will appear as auto replies to users

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birthing the concept: mid fidelity prototype > dashboard + scan & pay + paynow + request fund

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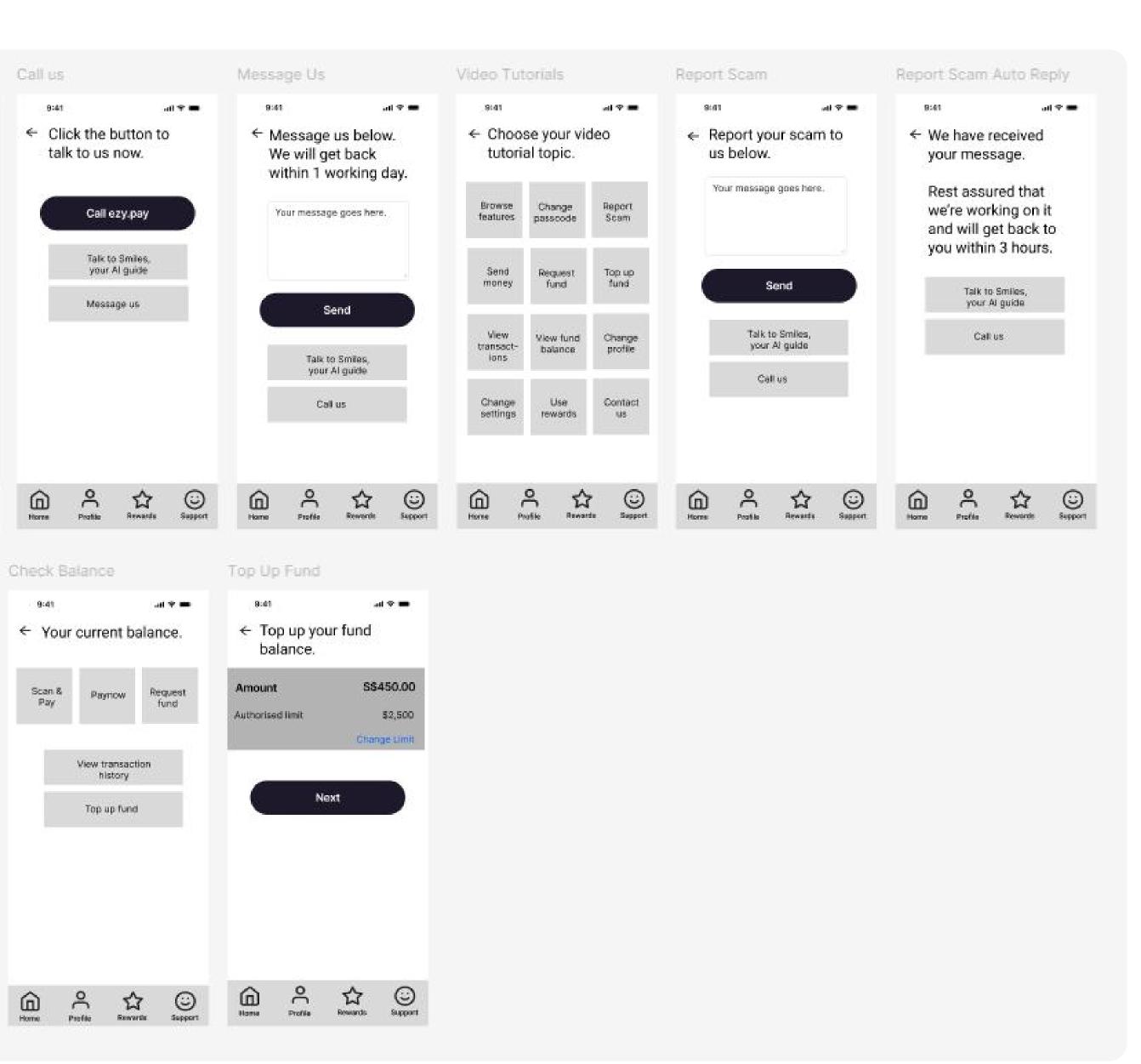
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- Video tutorials
- Report Scam

Fund Activity (4 Options):

- View transaction history
- Search transactions
- Check fund balance
- Top up fund

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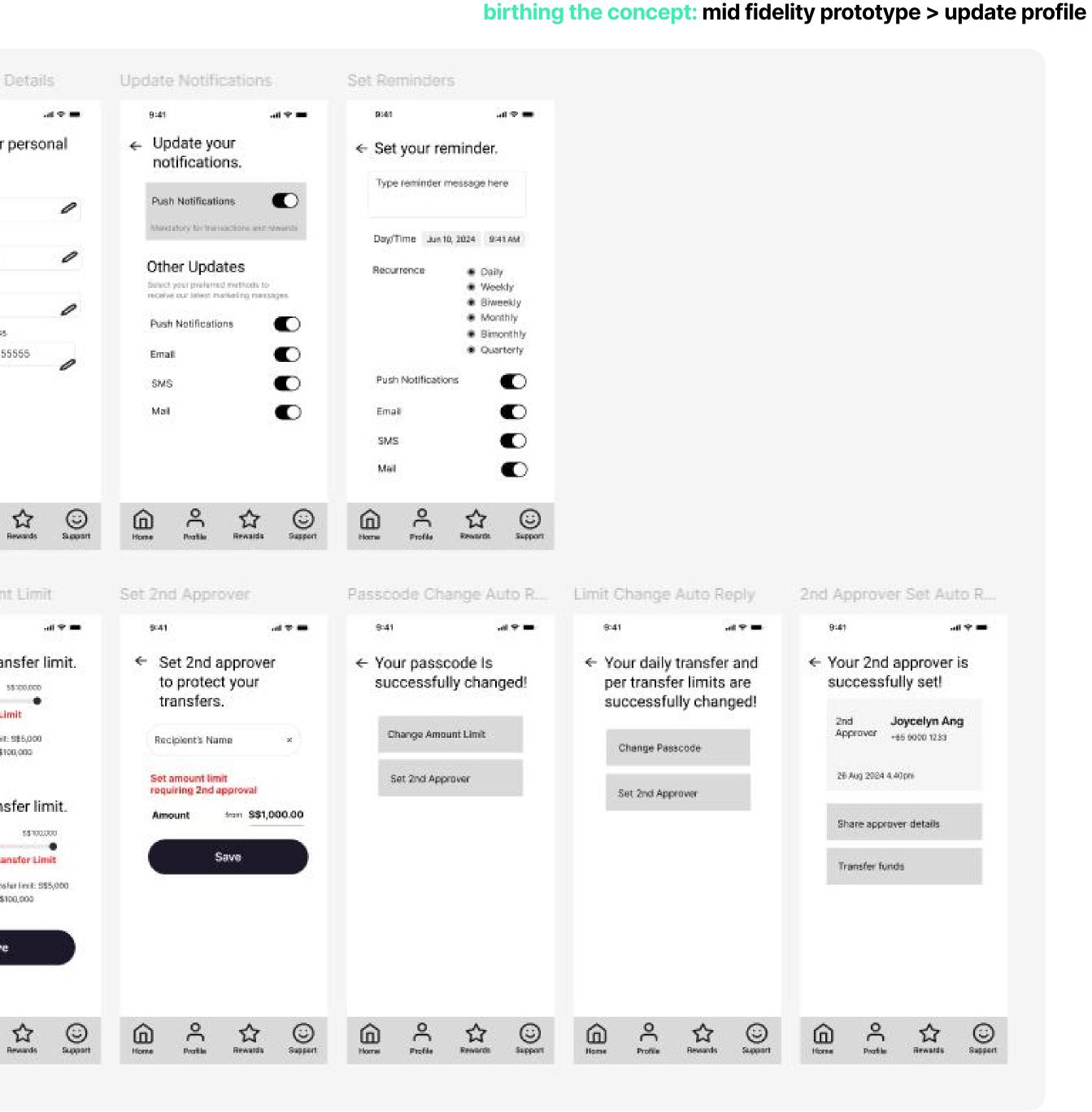
birthing the concept: mid fidelity prototype > support + view fund activity



Profile Update (8 Options):

- Profile details
- Update security preferences
- Update notifications
- Set reminders
- Change passcode
- Log in with Biometric
- Change amount limit
- Set 2nd approver

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Other Features

Authentification Failure & Support:

- Up to 3 attempts
- Support when account is temporarily locked



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ezy.pay is the friendly and trusted companion and guide for seniors to navigate the digital world with confidence and ease

Gradients

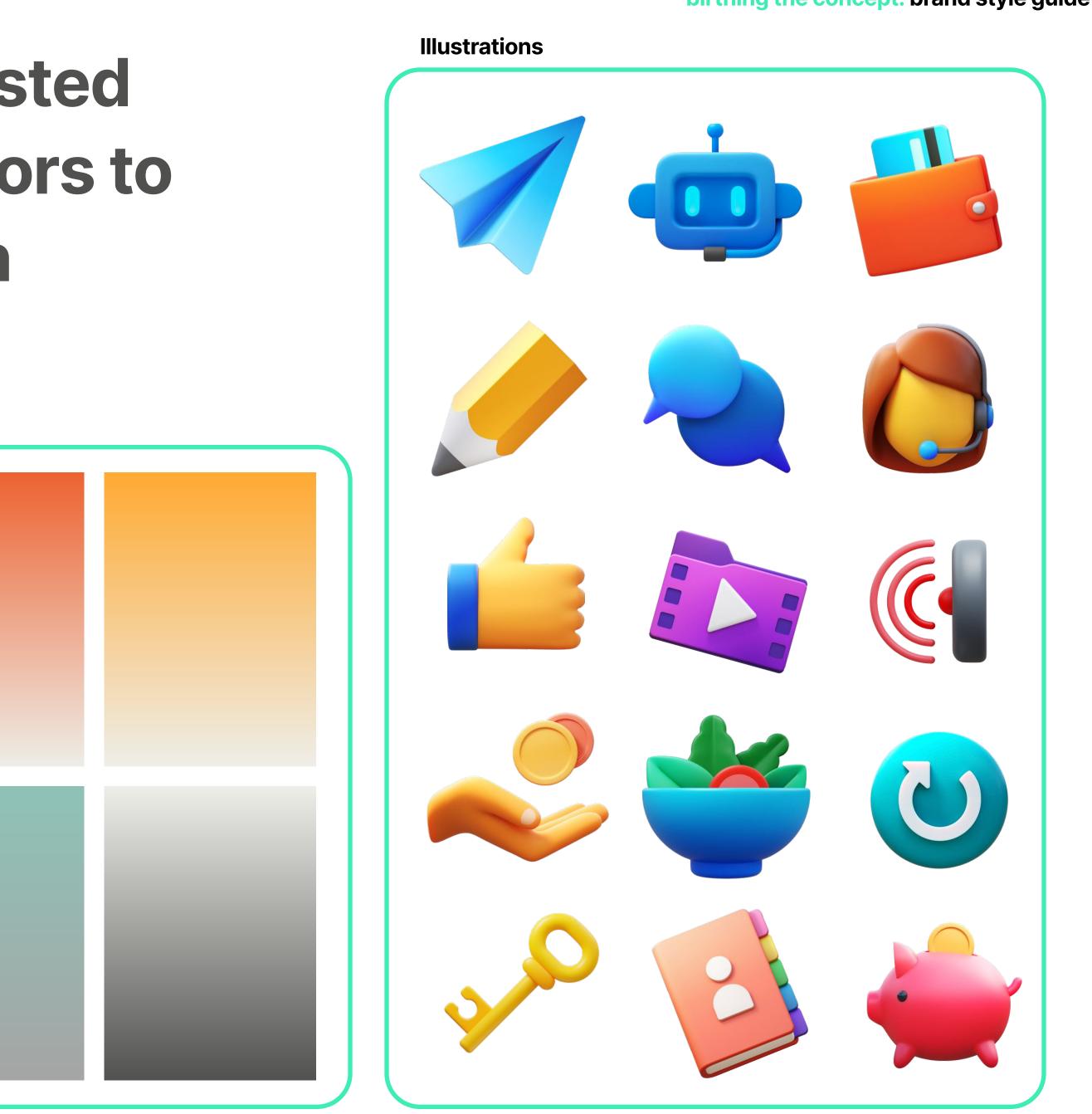
Personality

Friendly Calm Trustworthy

Tone

Clear Inviting Assuring

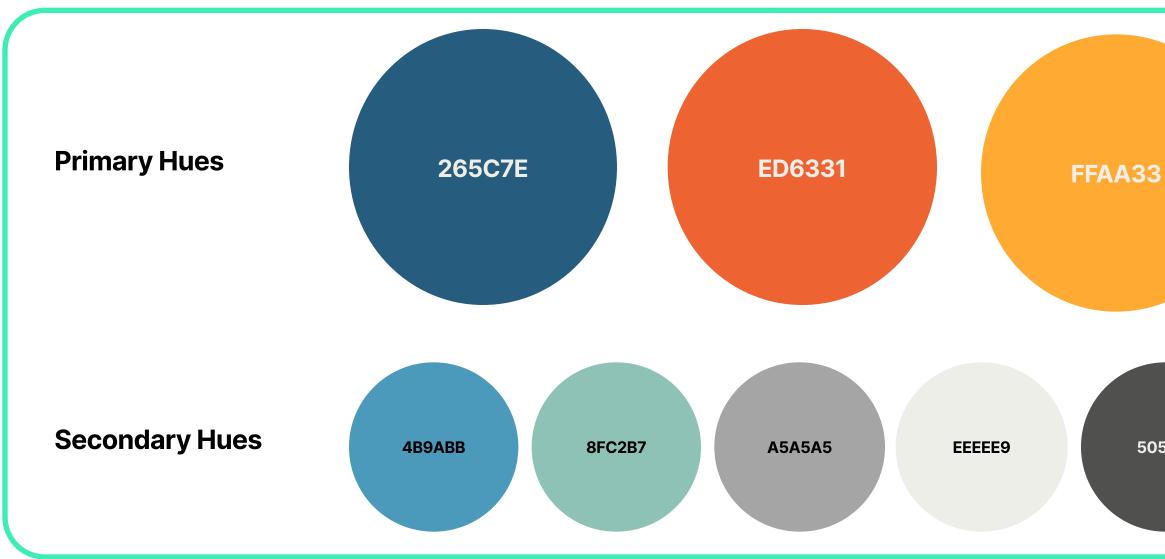
birthing the concept: brand style guide



LOGO



COLOURS



birthing the concept: brand style guide

Secondary Logo (full & mono colours)



Aa

Sub Text

ezy.pay

Heading Clear, simple, easy to read

Inter

Clear, simple, easy to read Subheading

Button Text Clear, simple, easy to read

Body Text Clear, simple, easy to read

Clear, simple, easy to read

50514F



Bringing ezy.pay to life, the first-in-SG safe & easy digital payment solution for seniors

Scan QR Code or click on link for interactive prototype



https://bit.ly/4dPt72Y

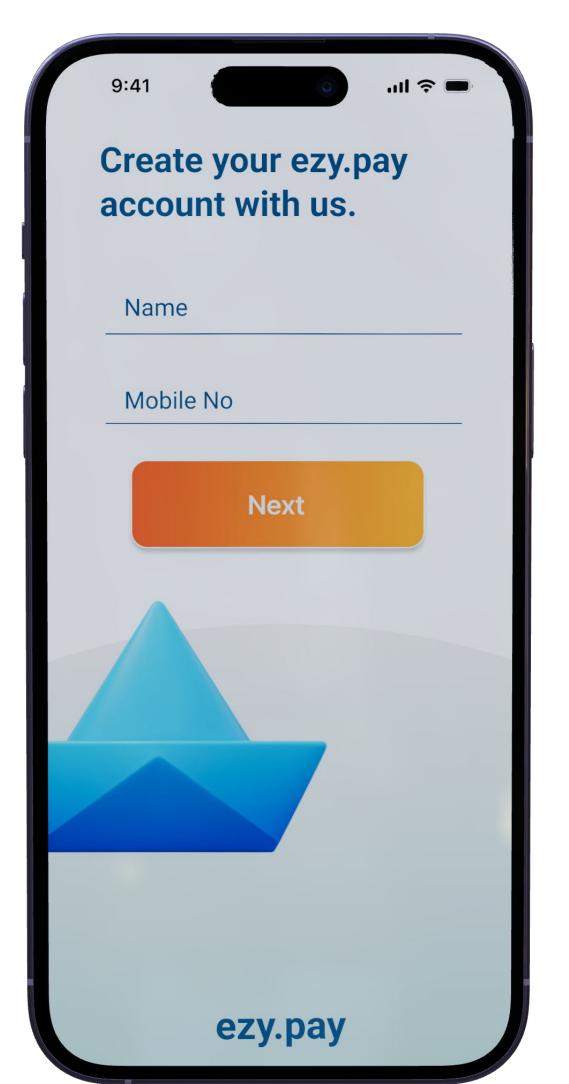




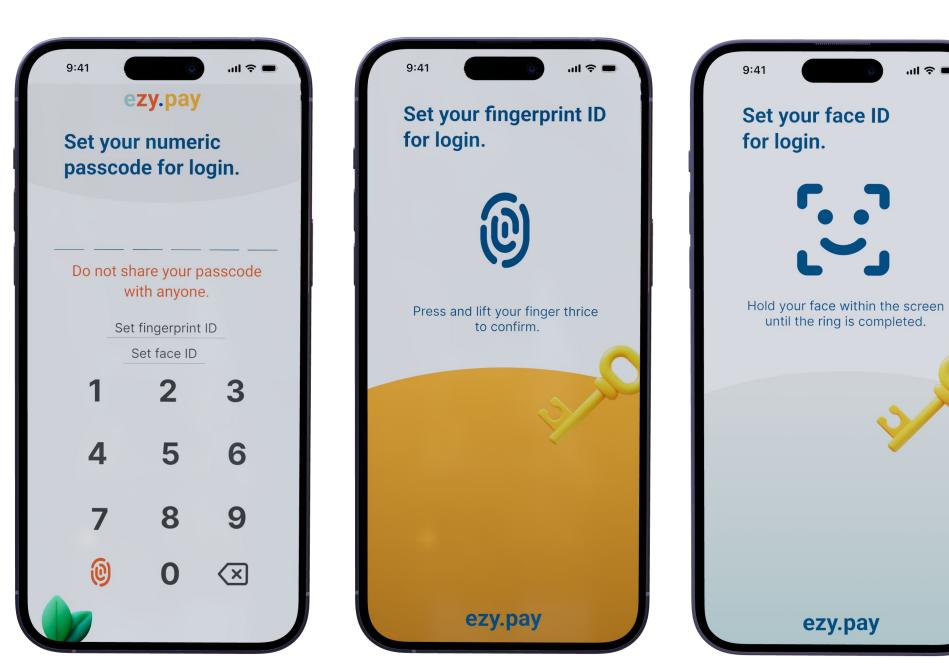


Authentication and Login

Account Creation

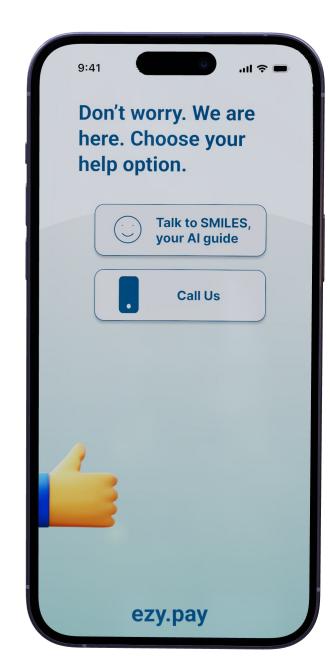


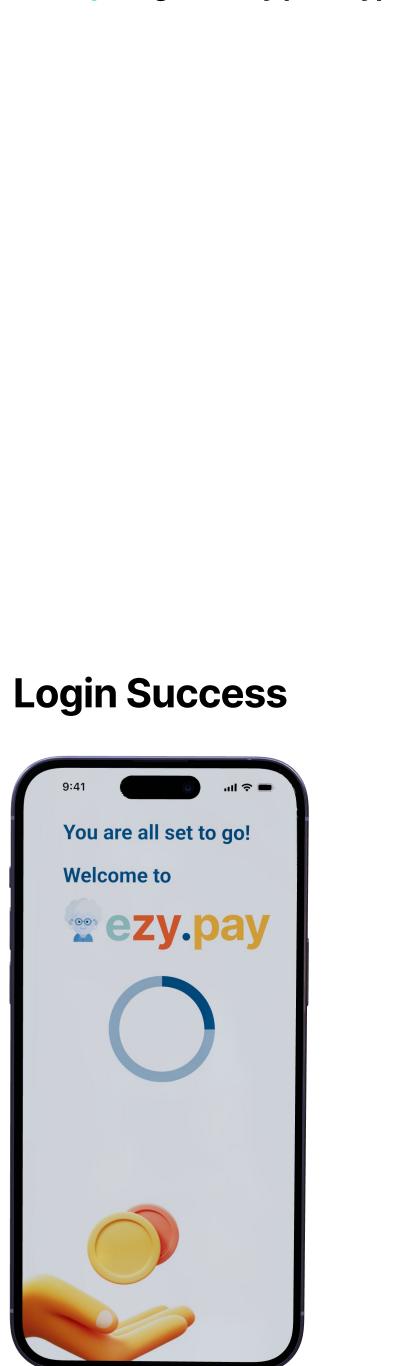
Set Authentication ID



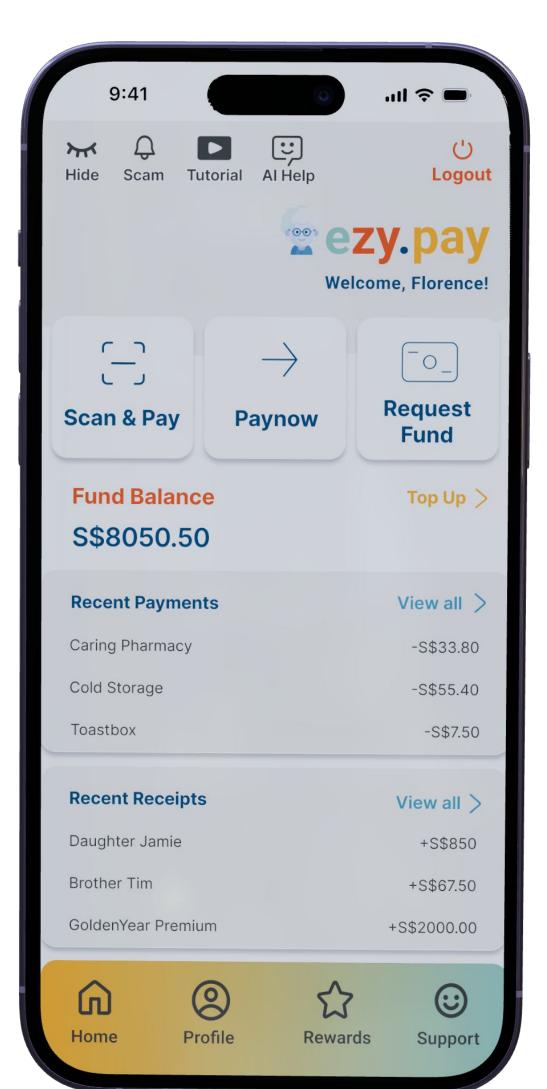
birthing the concept: high fidelity prototype

Troubleshoot

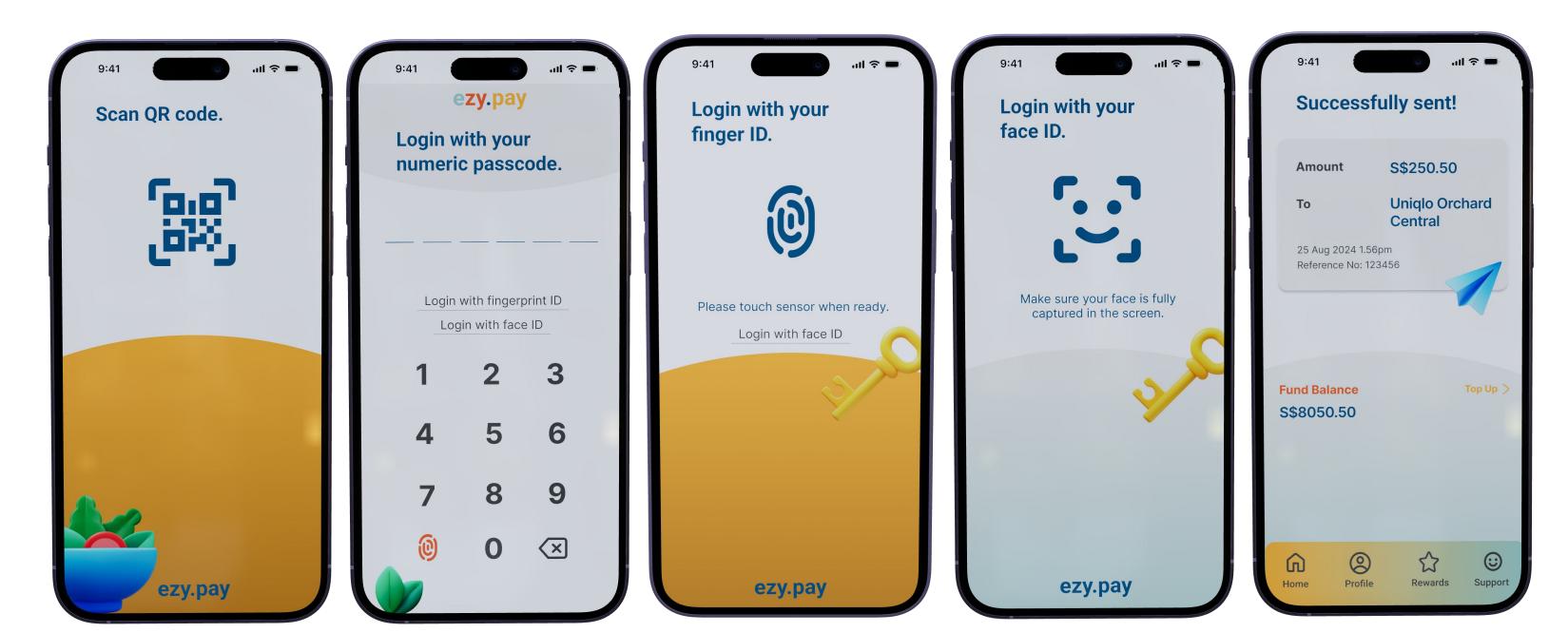




Dashboard



Scan & Pay



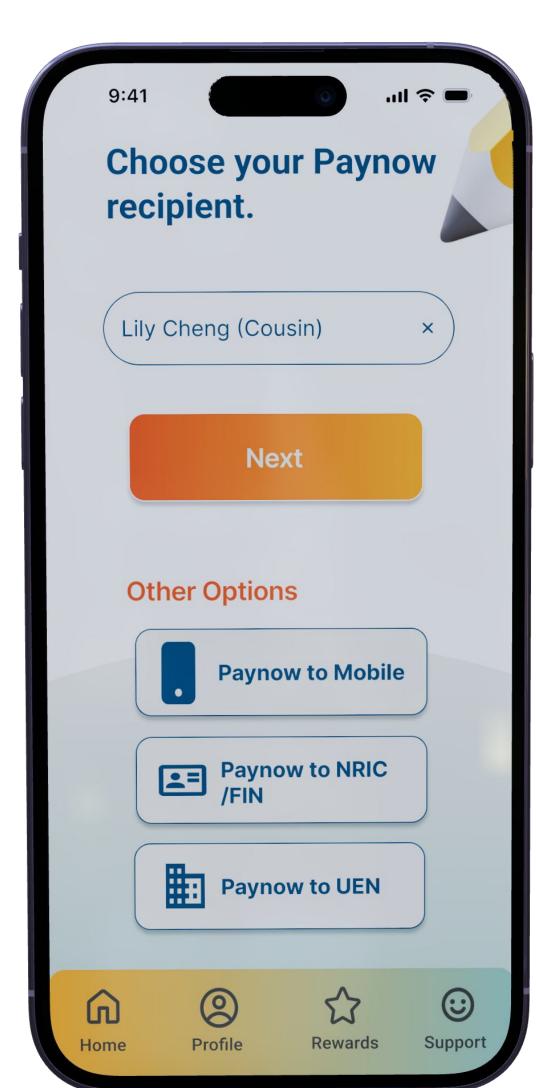
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Authenticate

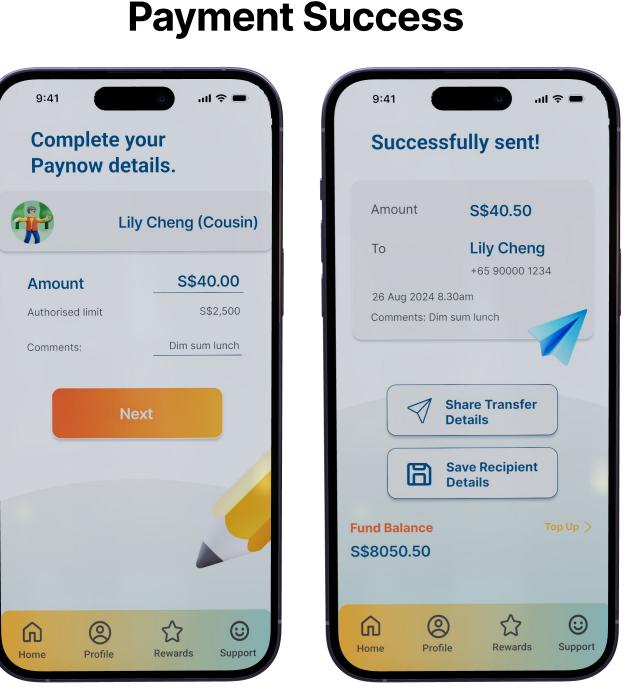
Payment Success



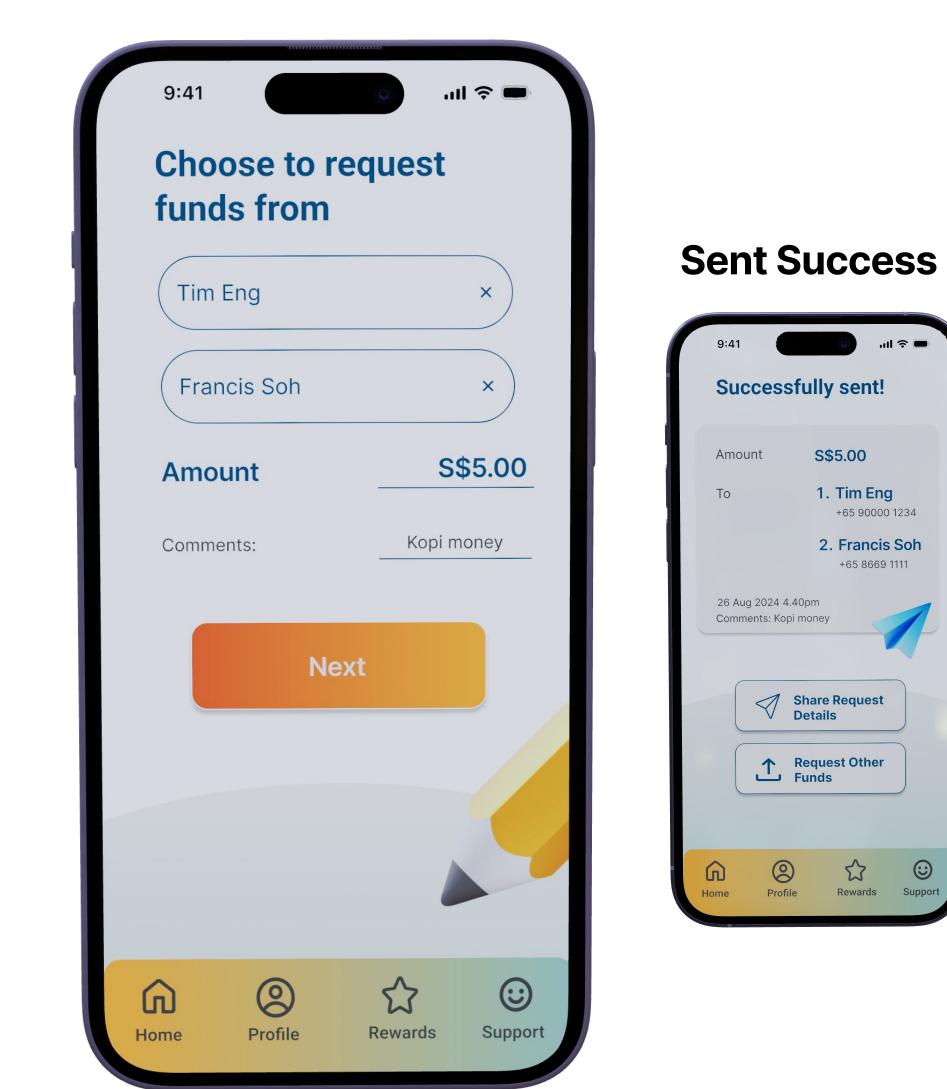
Paynow



Complete Details & Payment Success

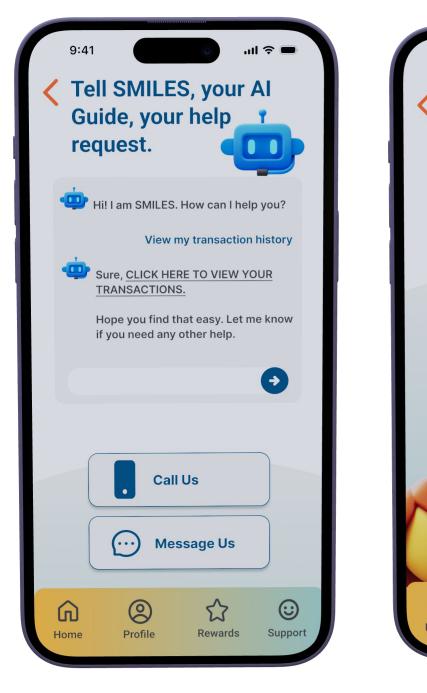


Request Fund



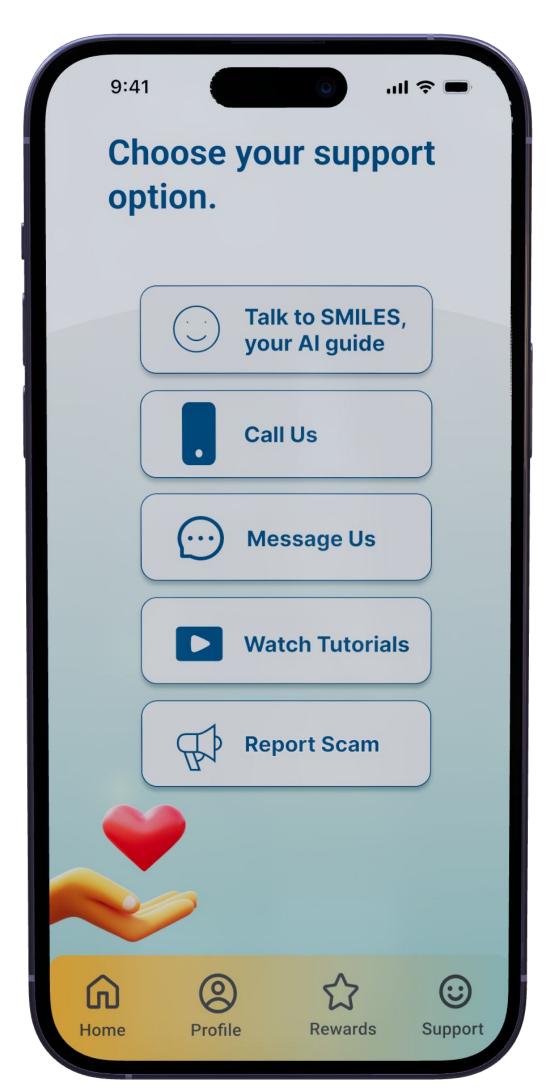


Al Chatbot

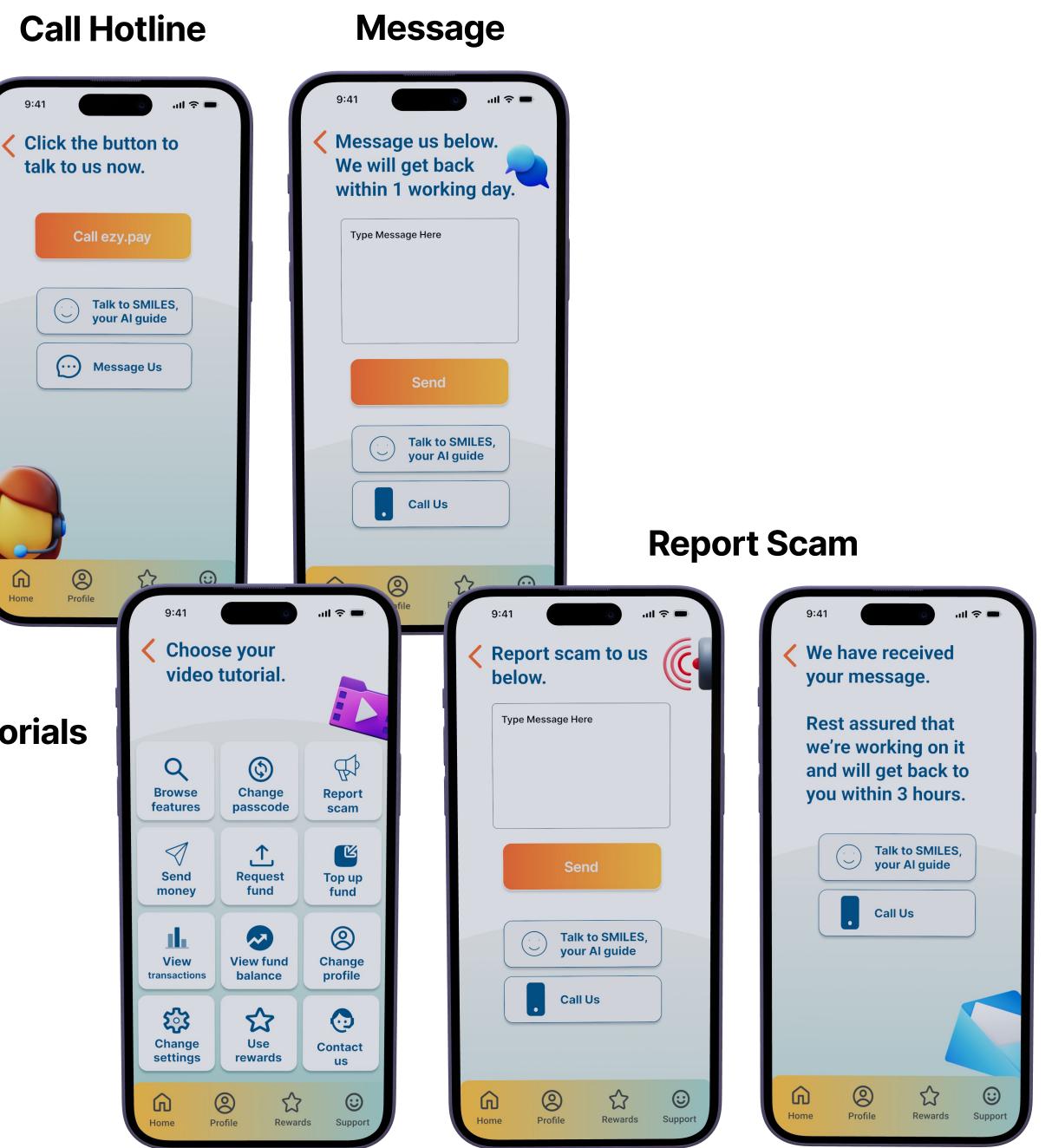


Video Tutorials

Support

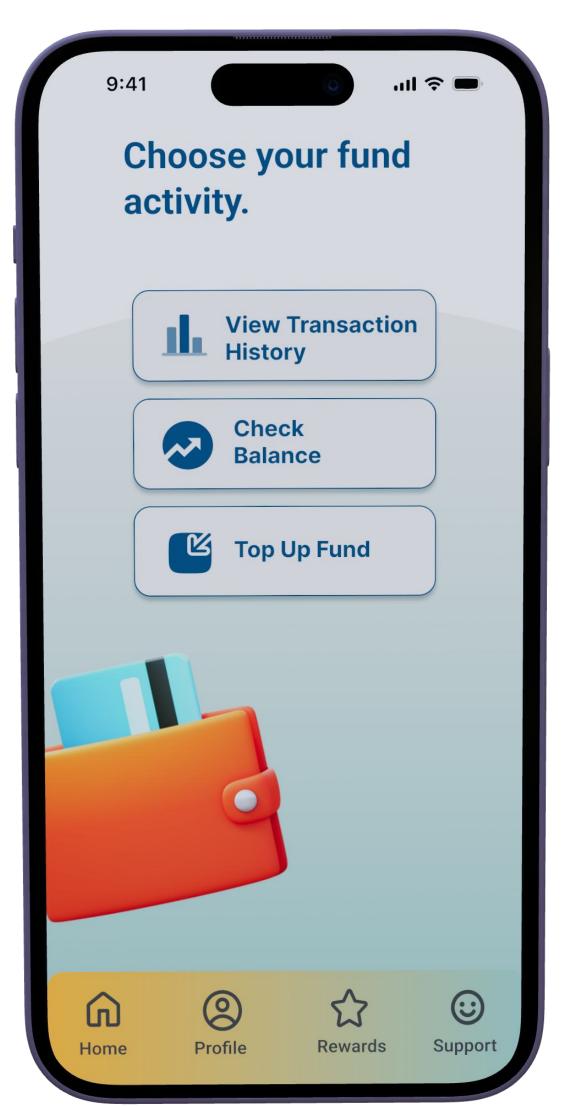


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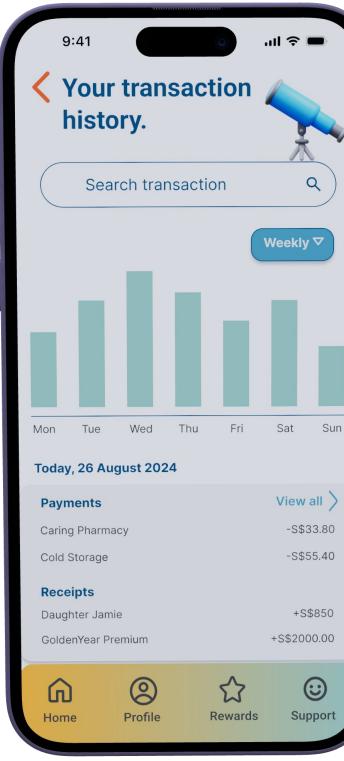




Fund Activity



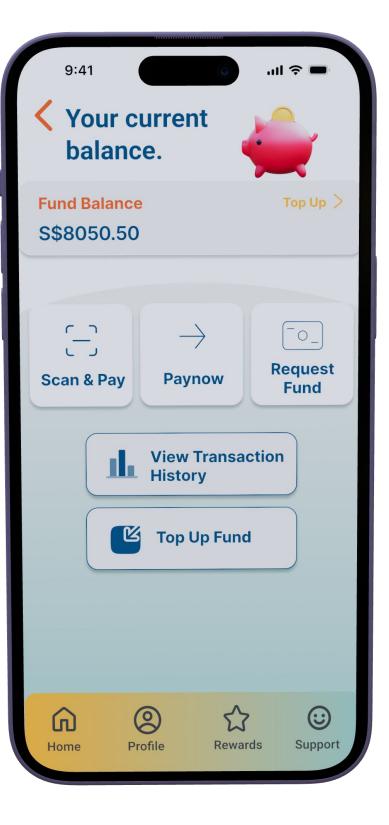
Transaction History



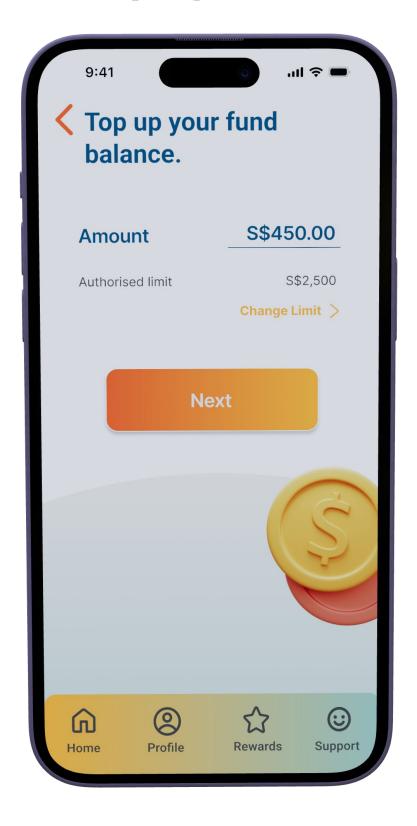
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Current Balance

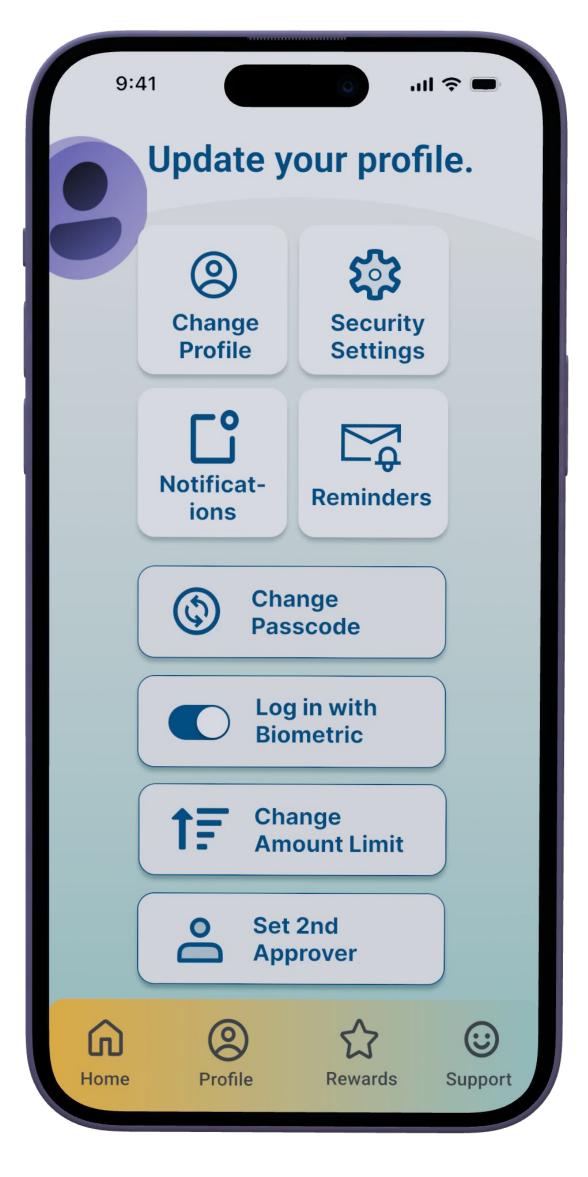


Top Up Fund



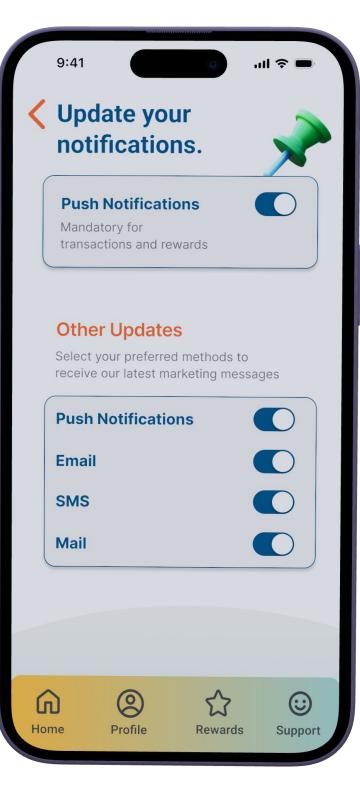


Profile



Update your pers details. Name Florence Ong	sonal
	0
Mobile Number + 65 9111 2345	0
Email Address (optional) joy@gmail.com	0
Residential Address 45 Joy Street S555555	0

Notifications

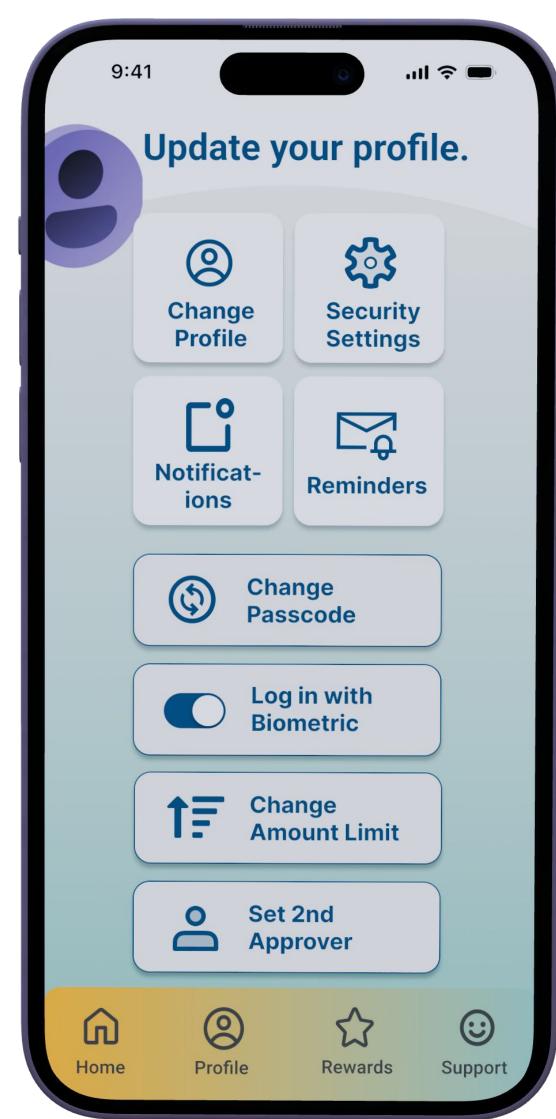


Set Reminder

9:41	•	ul 🗢 🗩
🕻 Set you	ır remind	er.
Type Reminde	er Message Here	•
Day/Time	Jun 10, 2024	9:41 AM
Recurrence	l.	
	Weekly	
	BimonthlyBiannually	-
Annually	Blainidaily	
Push Notifi	cations	
Email		
SMS		
Mail		
6		\odot
Home Prof	ile Rewar	ds Suppor

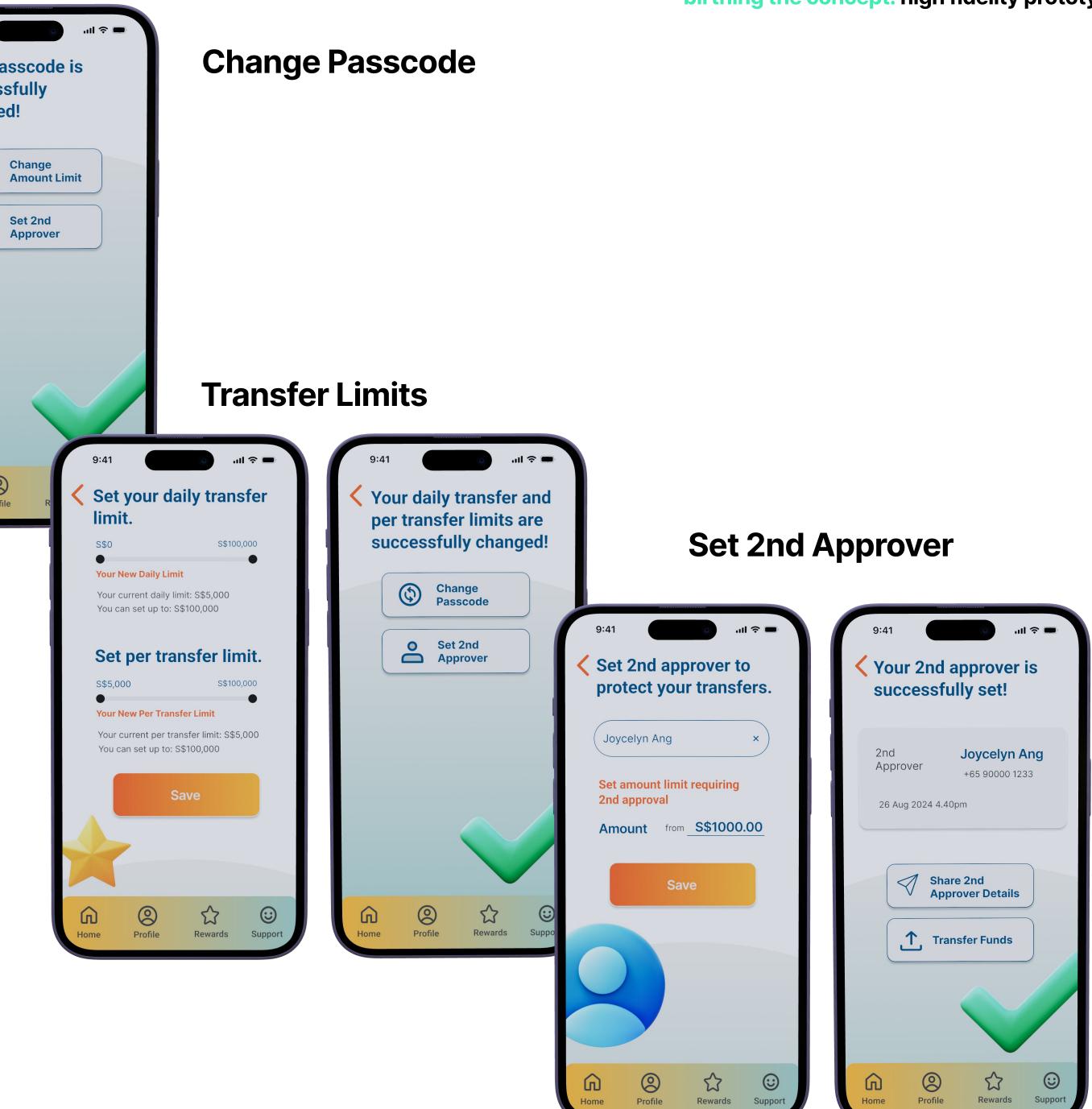


Profile

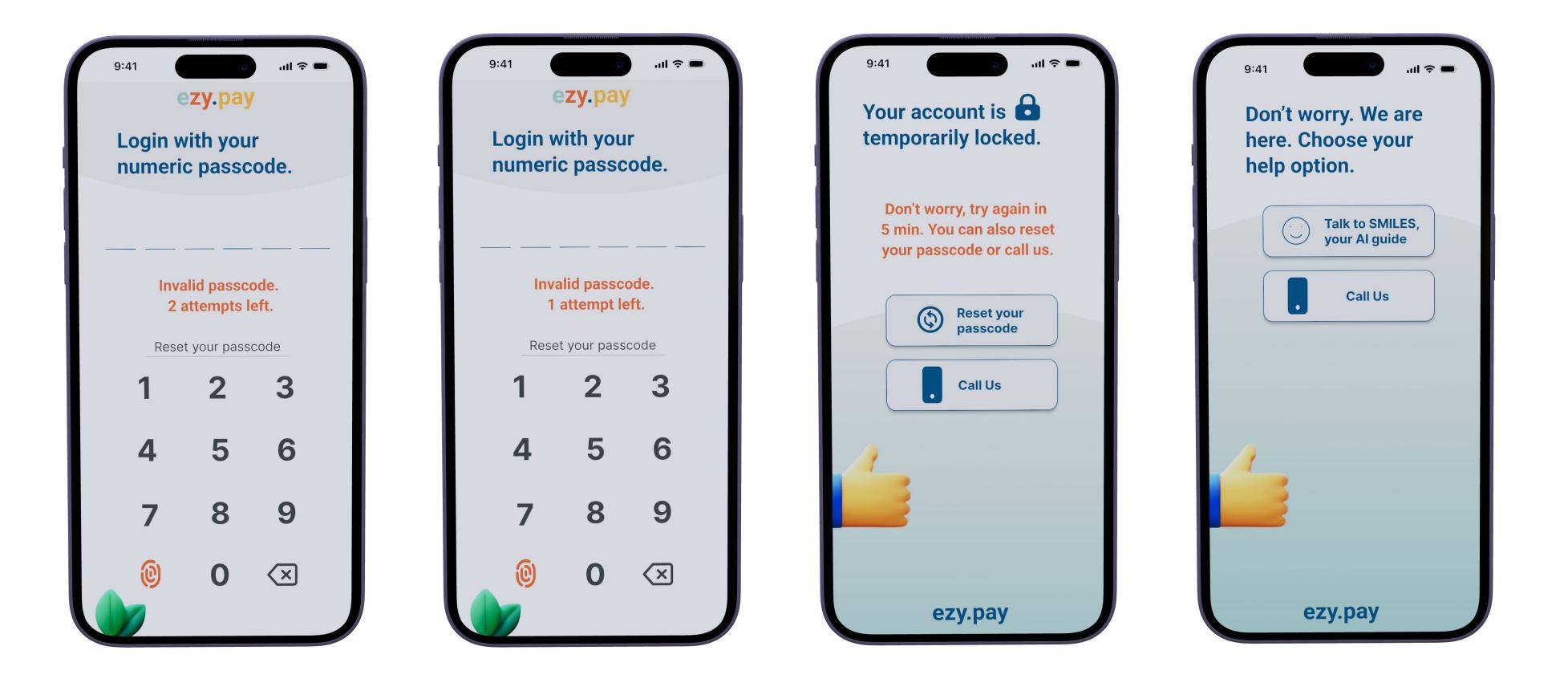


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passcode.	successfully changed!
Current Passcode	
New Passcode	T Change Amount
Confirm New Passcode	Set 2nd Approve
Cours	
Save	
Image: NoneImage: NoneImage: NoneImage: NoneHomeProfileRewardsSupport	Home Profile R

birthing the concept: high fidelity prototype



Authentication Failure & Support





Scope of Usability Test with 2 Seniors

- 1. Overall Satisfaction Score (based on 0-5):
- Your Likes
- Your Dislikes
- 2. Ease of use (based on 0 5):
- Create Account
- Conduct Payments
- View Transaction History
- Customer Support
- Update Profile & Security Settings
- **3. Suggestions/Improvements:**
- What to keep
- What to remove
- What to add/change
- 4. Will you use it if this is launched?
- 5. Will you recommend others to use?

Overall Satisfaction

Ease of Use

Create Account

Conduct Payments

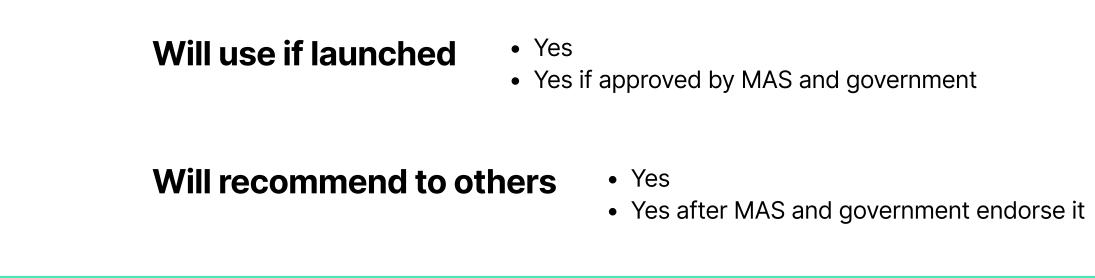
View Transactions

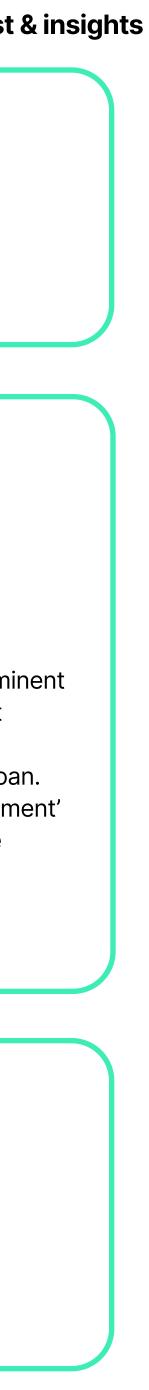
Customer Support

Update Profile/ Security Settings

Adoption & Recommendation

4.75/5	Likes	 Very clean design, not so cluttered, so less intimidating, font size is good for seniors 			
	Dislikes	None			
	What to Keep	• Icons			
4.5/5	What to Remove	e None			
5/5	What to Add/	 Make the 3 types of activity more visually promin 			
4/5	Change	as the dashboard page is currently the busiest - maybe use different colours			
4/5		 'Request fund' isn't as clear, thought it's bank loa Perhaps use 'collect fund/money or 'reimbursem 			
4/5		 For funds received, the transactions should be encrypted by blockchain technology 			

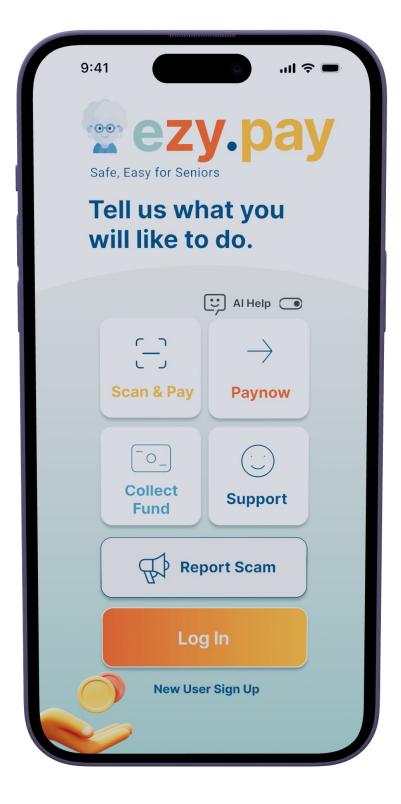




Post Usability Test Adjustments

- Differentiated 3 types of activity (Scan & Pay, Paynow and Collect Fund) with coloured fonts for greater distinction - on Homepage, Dashboard, Current Balance
- Renamed 'Request Fund' to 'Collect Fund' for greater clarity of meaning

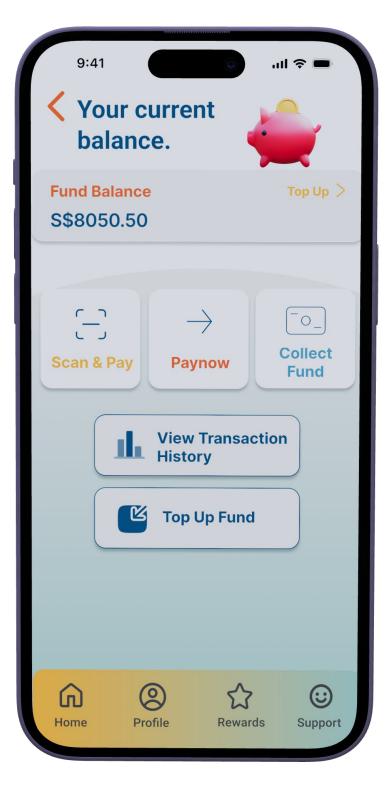
Homepage



Dashboard

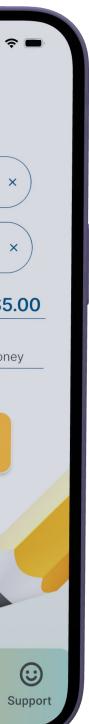
9:41		ull ≎ ■			
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	\rightarrow	-o_			
Scan & Pay	Paynow	Collect Fund			
Fund Balance		Top Up >			
S\$8050.50)				
Recent Payments		View all >			
Caring Pharmacy	-S\$33.80				
Cold Storage	-S\$55.40				
Toastbox		-S\$7.50			
Recent Collection	ons	View all >			
Daughter Jamie		+\$\$850			
Brother Tim	+S\$67.50				
GoldenYear Premium		+S\$2000.00			
()		(;)			

Current Balance



Collect Fund

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L	Comments:			Kopi mor	
I		Ν	ext		
I					
	Home	Profile	Rewards		



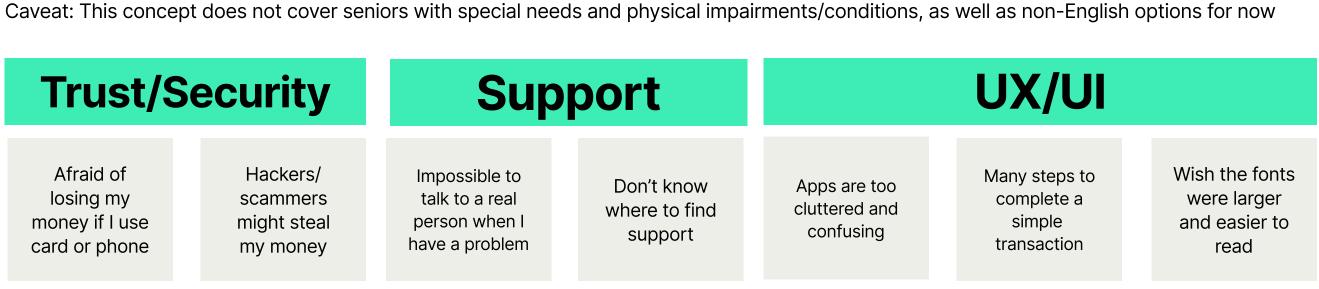
Market Lessons

- The future for elder/senior-centric solutions is bright and lucrative: Globally, the projected elderly population will hit 1.5 billion in 2060. Singapore is also set to become a 'superaged' society in 2026 (where 1 in 4 citizens will be 65 and above).
- This demographic shift creates an urgent demand for effective and scalable senior care solutions that can enhance the quality of life for our elderly citizens.
- Given this rising phenomenon, this proposed senior-friendly digital payment seems to be an afterthought that companies can quickly act upon (as well as tailor their offerings towards besides serving the general population), to seize this immense elderly segment and drive their future profitability.
- This prototype, ideally, can also cater to wider groups of seniors with varying needs and conditions to have pervasive efficacy - with the integration of innovative features and technologies.

Personal Experience/Takeaways

- As someone without design background, I can immediately relate more to UX as a regular consumer on this capstone project.
- UI however demands more design and creative abilities. It also takes much practice and experience to build both form and function into the solution.
- Given this experience, I believe I can provide a stronger UX POV with more indepth market and user research.
- While UI will require further skills training and development to hone and refine down the road.
- All in all, the culmination of both UX and UI in this digital payment prototype brings immense satisfaction and joy to create and bring to life.
- I believe the prototype has also largely delivered on the defined scope below, derived from my user insights at the outset.

Selected User Insights for Concept Development



This capstone project leveraged tools, illustrations and icons from these places:

- Figma
- Miro
- Canva
- Adobe
- Survey Monkey
- Google Form
- Icons8
- Flaticons
- Freepik
- Pexels
- Pixabay
- Unsplash



By Stephanie Tiu

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Thank you

