

Nanyang Marché

E020 Smart Mobile APP Group B

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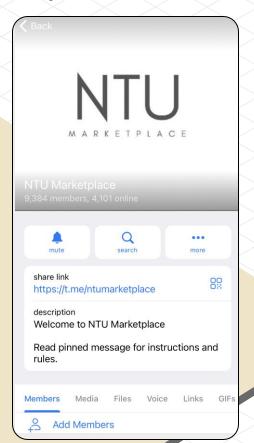
Business Plan

01 Introduction

Introduce our project and app briefly.



Inspiration and Objective



NTU Marketplace

Our App: Nanyang Marché

- An app for NTU students and faculty members to buy/sell items
- Improve on the existing solution --- "NTU Marketplace"
- Convenient communication
- Reduce spam and improve community spirit





02

Problems

What are the current problems we faced?



MARKETPLACE Telegram

Poor UI



- Disorganized
- Messages pushed away quickly

Spam & Abuse



 Anyone can post unwanted messages, no moderation.

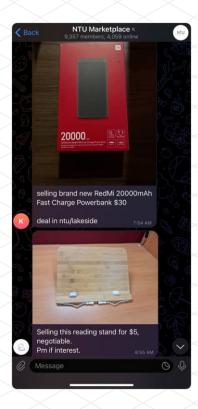
03

Solutions

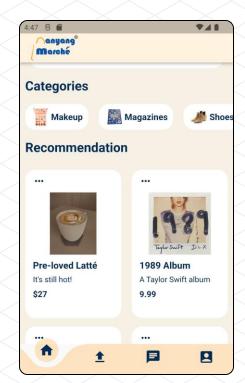
How to enhance user experience?

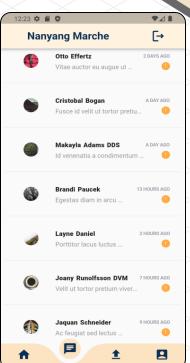


Telegram group vs Our App



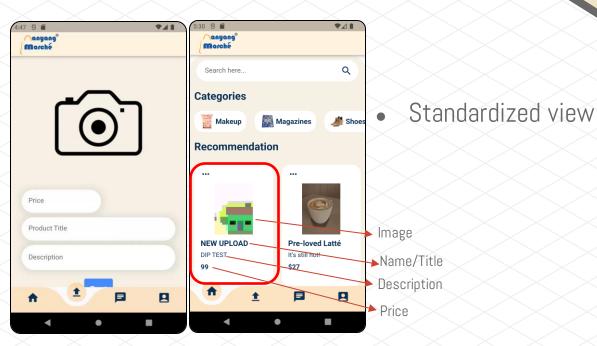
VS



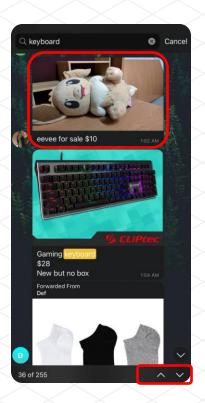


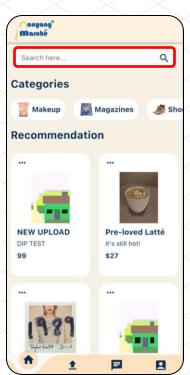
Product Listing





Search Function

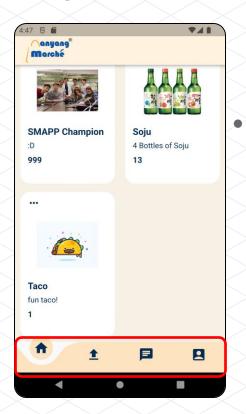






Only show relevant results

Navigation Bar

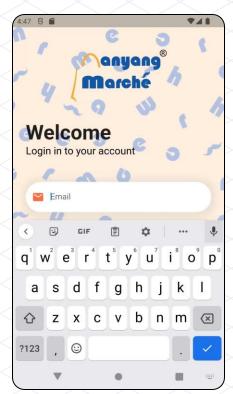


 Navigation for essential functions

Authentication: Signing Up



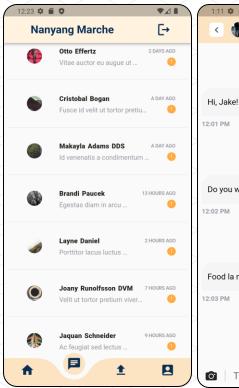
Sign Up

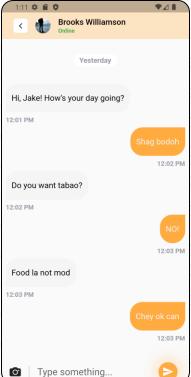


Login

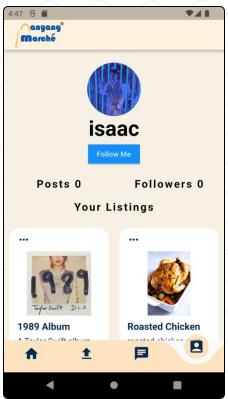
4:49 5 741 _anyang® Marché Categories Magazines **Shoes** Makeup Recommendation ••• **NEW UPLOAD** Pre-loved Latté DIP TEST It's still hot! \$27 99 ••• •

Chat





Profile page



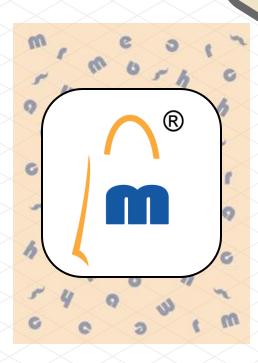
View personal listings

04 Design Structure

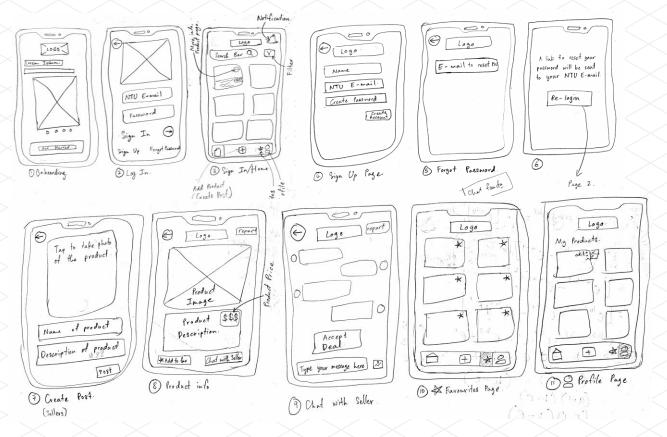
Logo and Background



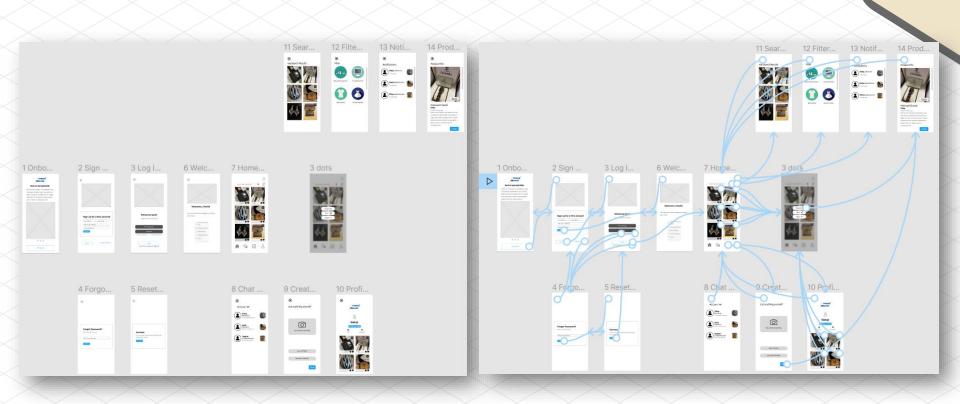




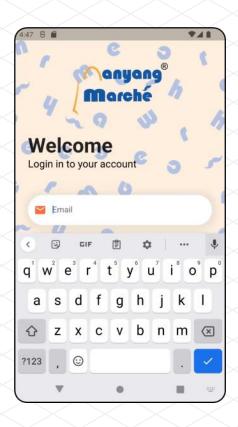
First drafting

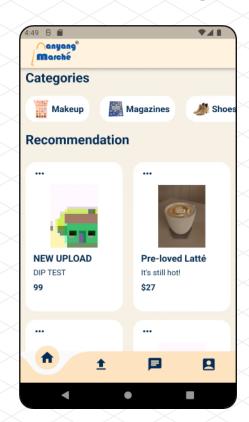


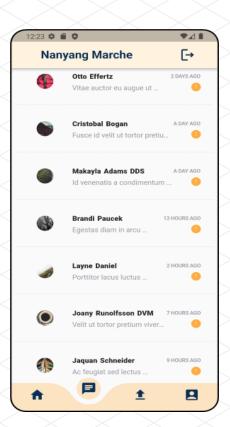
Figma



Final Design







Technical



Why Flutter?



- Cross-platform
- Ease of learning
- Performance







FlutterFire CLI



Cloud Firestore

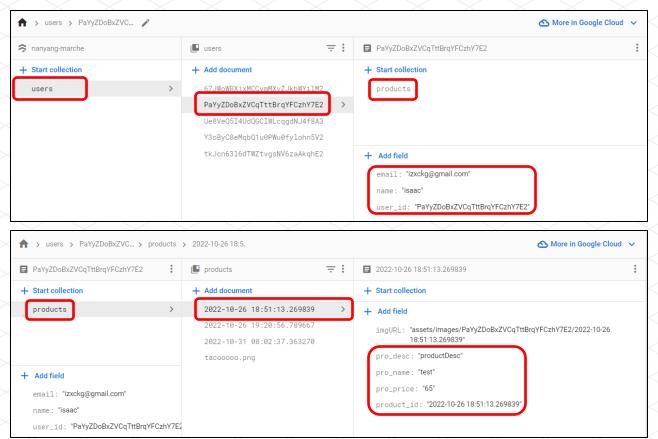
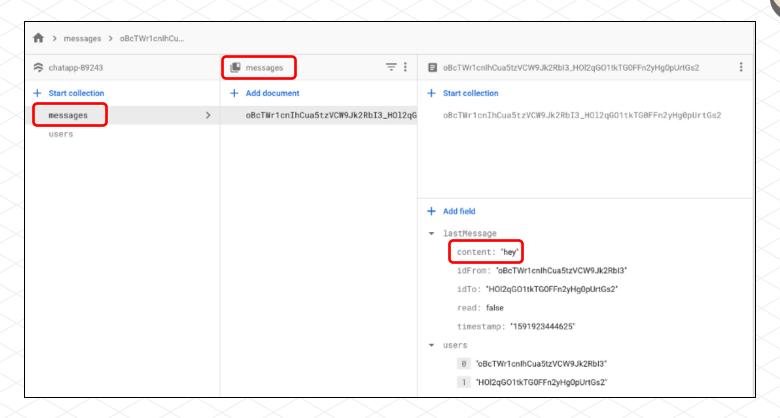


Image Cloud Storage

→User ID

⊕	gs://nanyang-marche.appspot.com > assets > images > PaYyZDoBxZVC			★ Upload file	
	Name	Size	Туре	Last modified	
	■ 1989.png	518.23 KB	image/png	Nov 1, 2022	
	2022-10-26 18:51:13.269839	195.93 KB	image/jpeg	Oct 26, 2022	
	2022-10-26 19:20:56.789667	195.93 KB	image/jpeg	Oct 26, 2022	
	2022-10-31 08:02:37.363270	195.9 KB	image/jpeg	Oct 31, 2022	
	coffeehouse.png	428.79 KB	image/png	Nov 1, 2022	
	tacooooo.png	59.12 KB	image/png	Oct 27, 2022	

Messages



06 Future Improvements



"Looking for" Forum



Looking for help?

Items which are unavailable on the marketplace

Quality of Life Features





- User authentication
- Securing backend connections

Other Recommendations







07

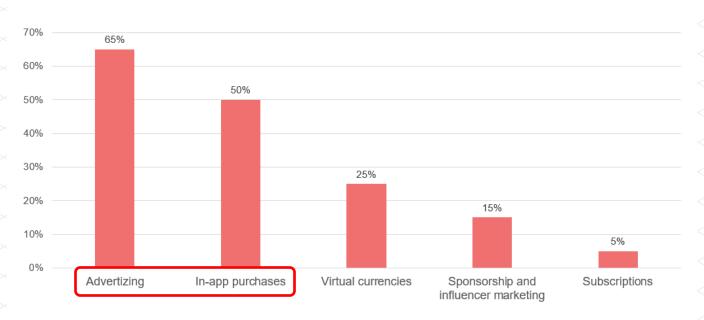
Business Plan



Advertising

Monetization methods used by popular apps





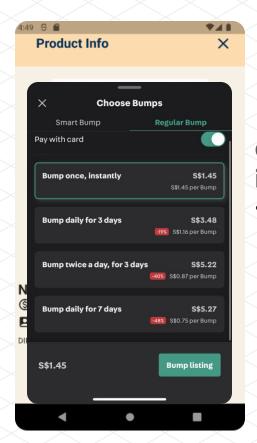
Native Advertising



Affiliate Marketing

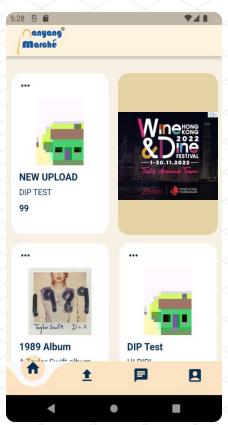
- •Cost-per-mile (CPM) or Cost Per Impression (CPI)
 Receive the payment for every 1,000 views of the ad
- •Cost-per-click (CPC)
 Receive payment when the app users click on display ads
- •Cost-per-view (CPV)
 Charge advertisers for the number of ad views or the number of interactions
- •Cost-per-install (CPI)
 Get paid each time our app users install the app we promote

In App purchases



Consumable items

Up User Listing



Non-consumable items

Removing ads



80 Group Contribution

What is the history of online shopping?



Group Contribution

	Name	Project contributions
1	Isaac Tay Peng Bin	 Group Leader Come up with the name of the app Built various features for the backend like uploading the pictures and text of each product Setup the Firebase Schema and other functions like Authentication and Storage Integrated frontend and backend by allowing the frontend to fetch data from the backend
2	Chai Jia Zhe	 Treasurer Proofreading of final report
3	Stanley Wong Qi Ren	 Built the front-end pages like the onboarding page and profile page Assisted the backend by giving the app access to the camera and gallery of the phone and setting up the Cloud Firestore Schema Mentoring teammates on Git, Android Studio and Flutter Debugging and reviewing the codebase Introduced the tech stack and IDE
4	Rithikha Vivekanantham	 Oversaw progress and worked on adding improvements in Figma by making it more aesthetically pleasing and interactive Designed the initial hand drawn draft of the app Front end coder for the onboarding page and details page

Group Contribution

	Name	Project contributions
5	Ke Tangxin	 Set the app's tone in Figma, like colours, widgets Be a front-end coder of login, sign up, upload and home pages etc. Find some pictures and icons for the app Integrate frontend and backend for login and sign-up pages
6	Lim Zhi Wei	 Idea of bringing NTU Marketplace to an actual app Sliding and responsive interface design in Figma Final report and presentation slide format editor Chat Functionality Debugging
7	Jake Chang Jie	 Chat Functionality and UI Backend Research Frontend and Backend Integration Quality Assurance and Control Debugging
8	Khairunnisa Ranam	 Draw hand drawn draft of app Design app's logo, icon & wallpaper Figma wireframes & prototype Find images and icons for Figma