01

Problem Validity

Trip Planning: A nightmare

Key user problems:

- Finding a central platform
- Crafting the trip itinerary
- Ensuring everyone's preferences is taken into account

Current Solutions

Telegram

GDocs

Canva

In short,

The current solutions are:
- Fragmented
  - Poor organisation of places of interest
  - Repetitive toggling between platforms
- Inefficient for preference and sentiment tracking -> **Group decision paralysis**

02

Our Solution

Travel Board

- Centralised platform for saving and organising places of interest
- Visual preference aggregation
- Streamlines decision-making process
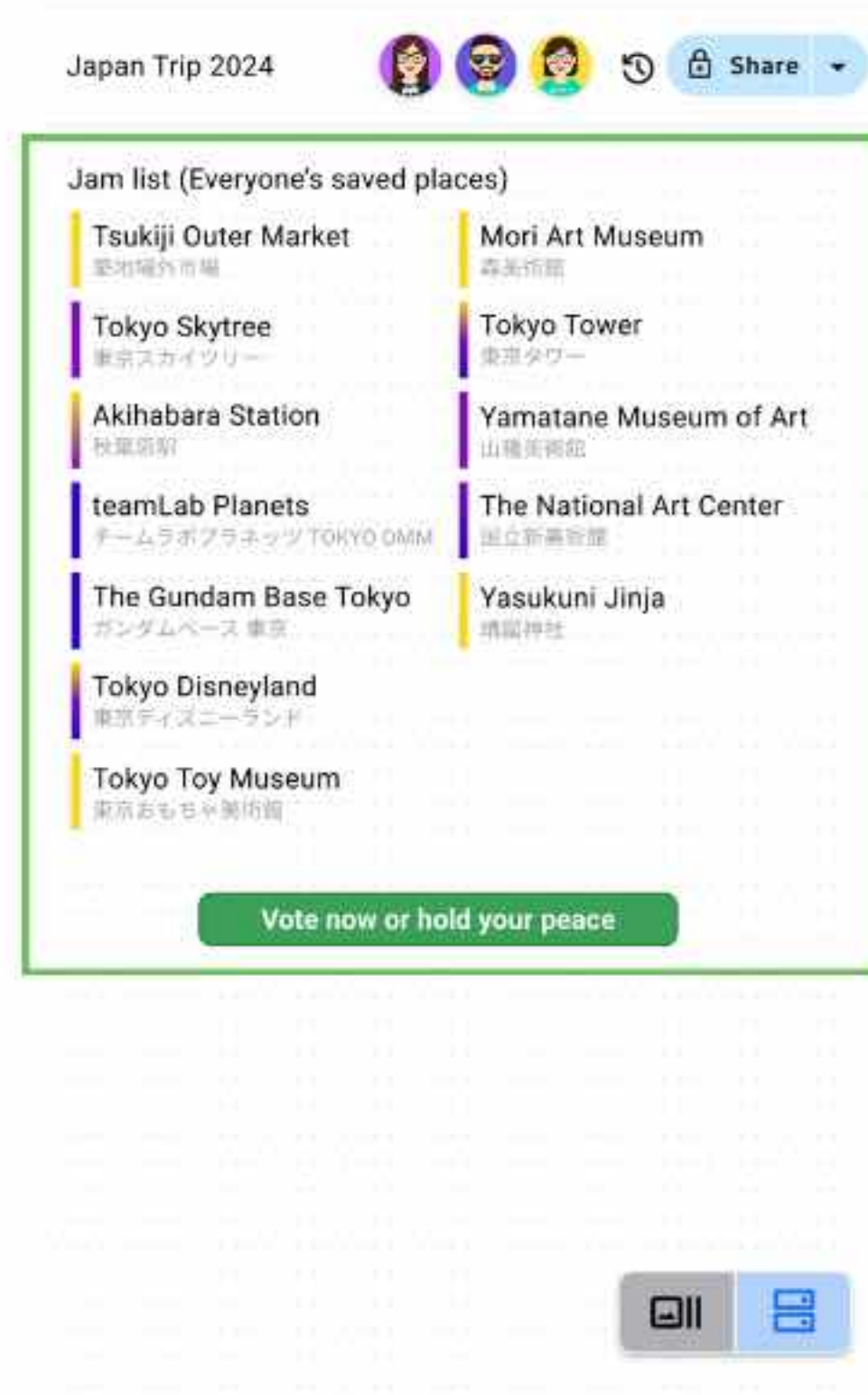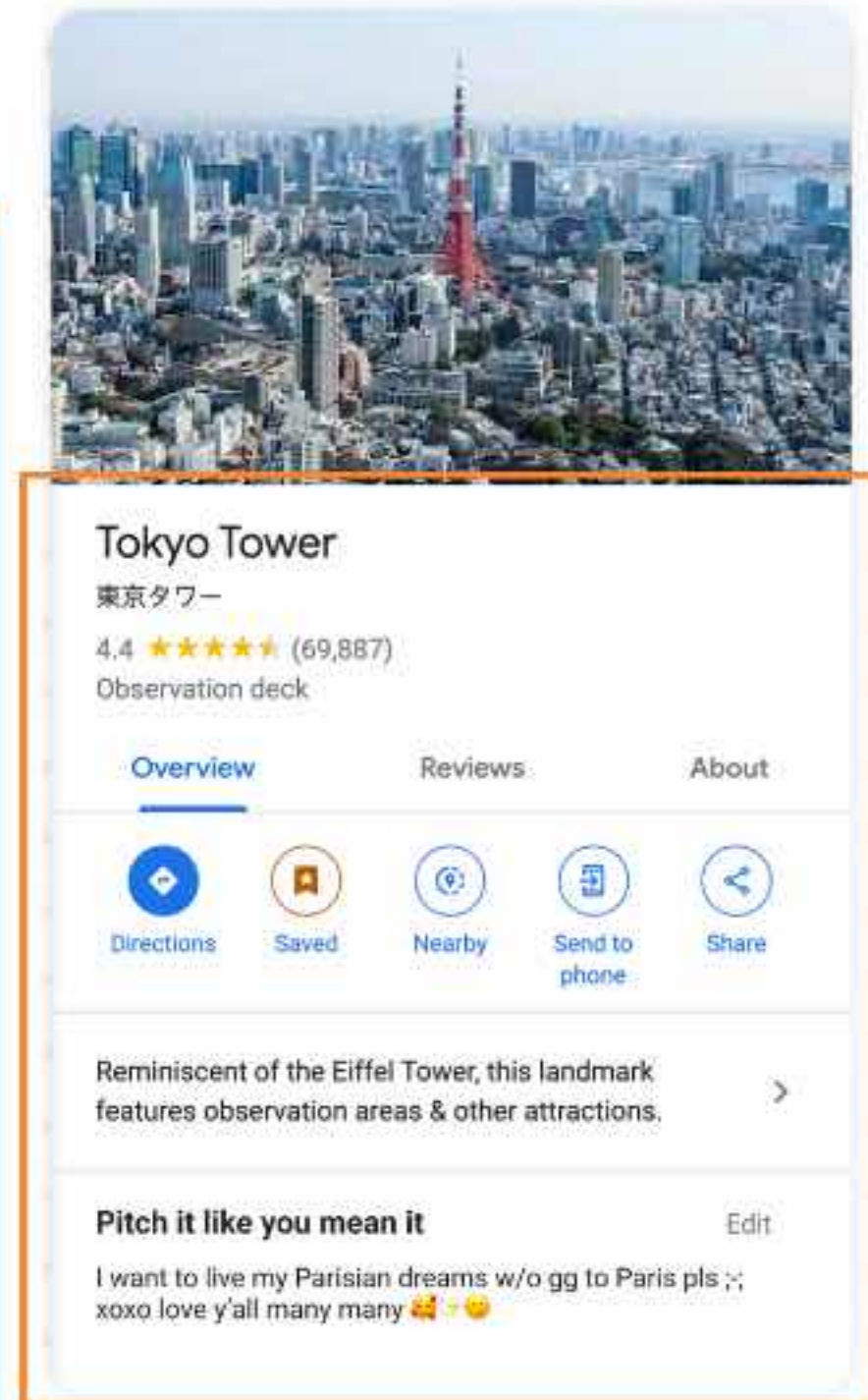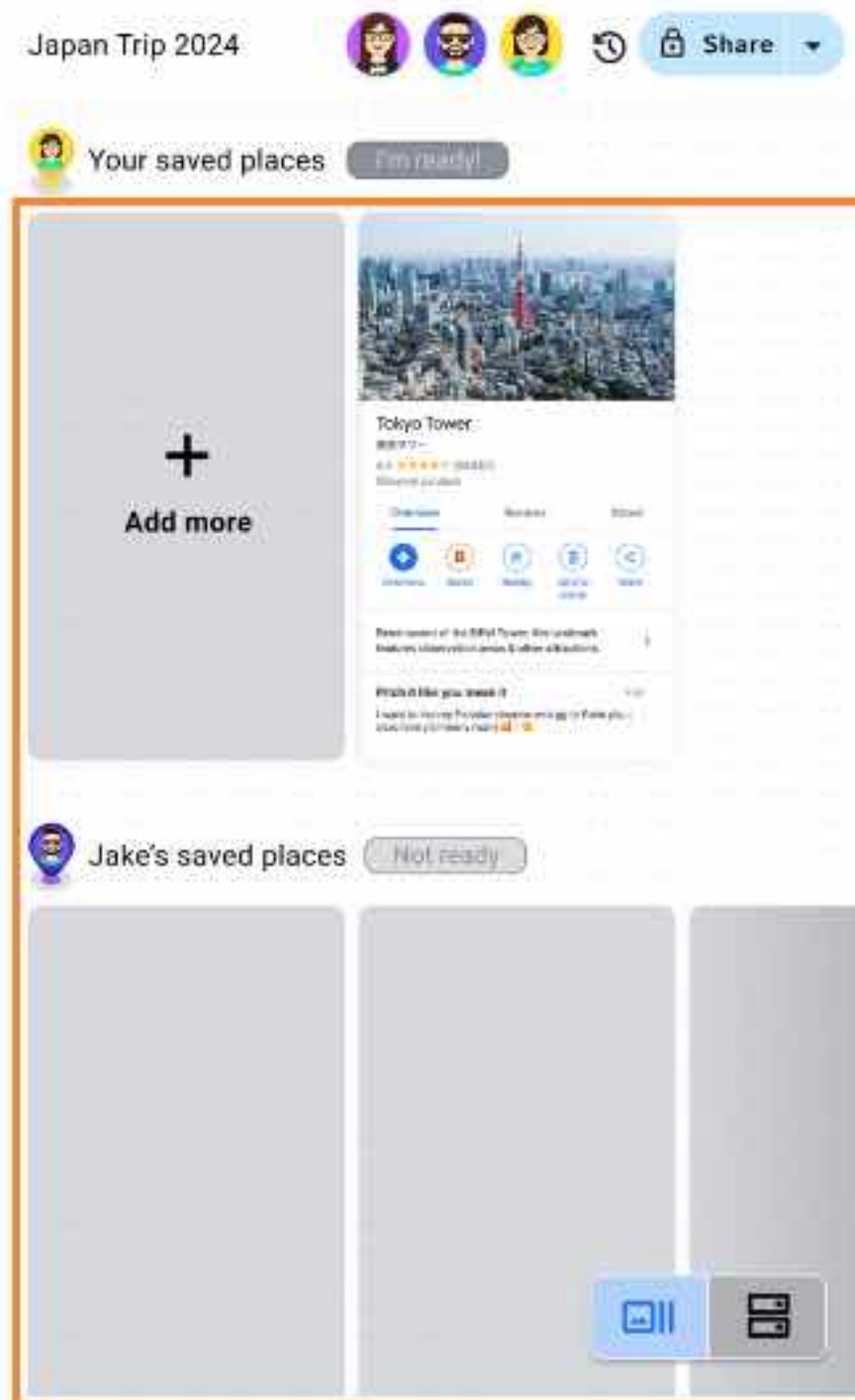- Integrated with existing tools users are familiar with

Travel Board

Your buddy, for buddies overseas

Prototype 1 Findings - The Good

Being able to have a collaborative and visual board for planning group trips
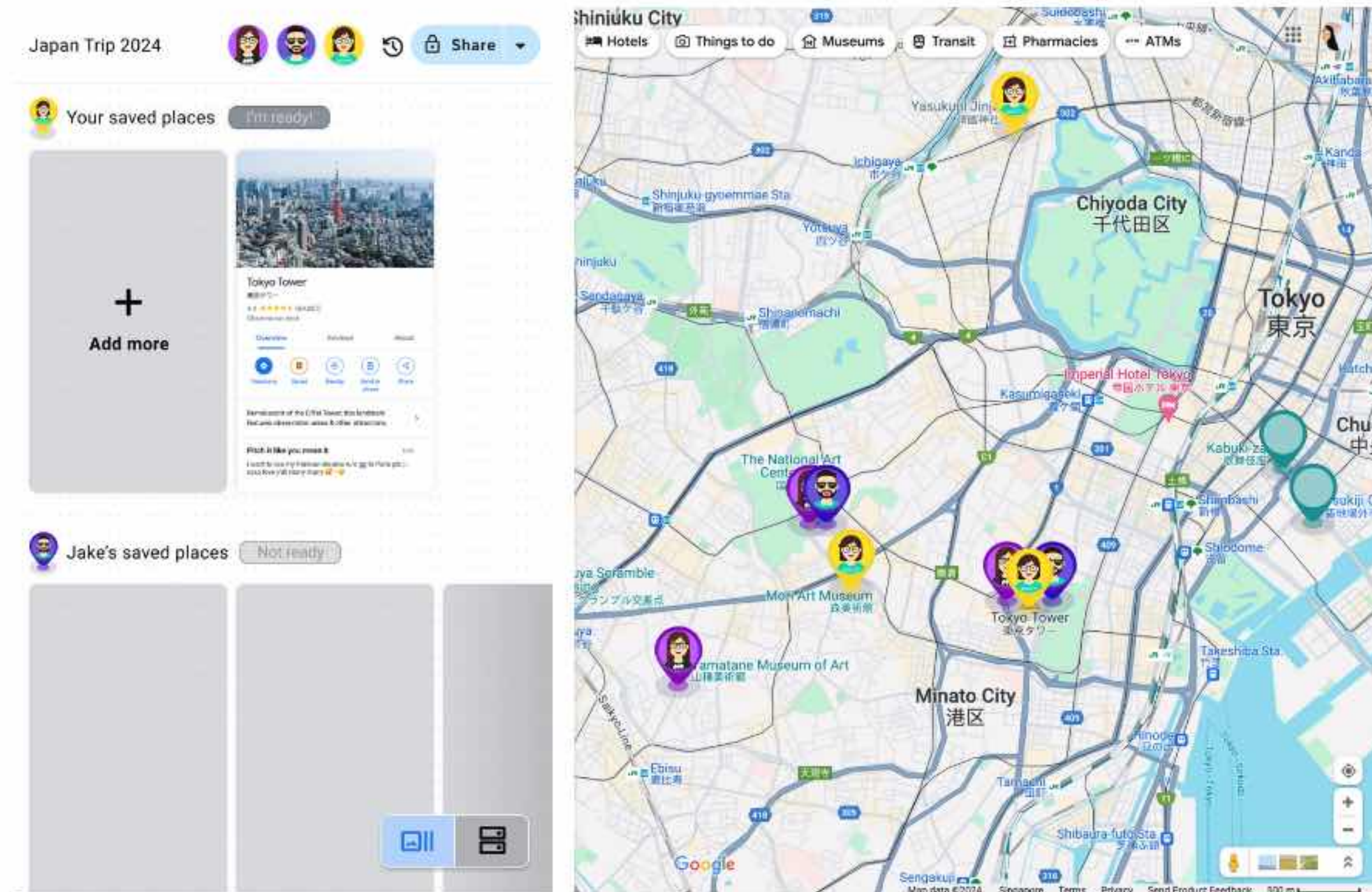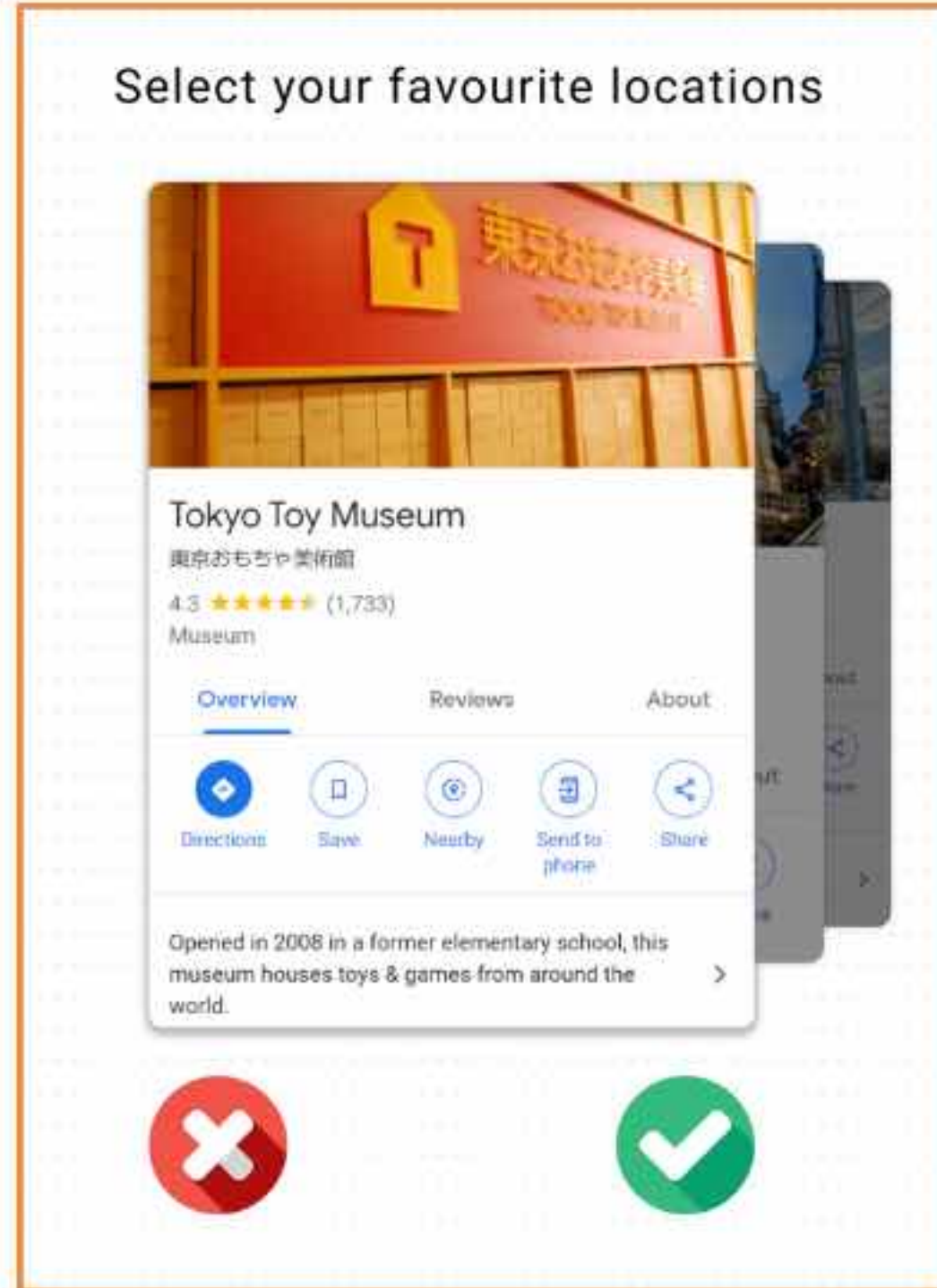
Prototype 1 Findings – The Not So Good

Saved places information – Overwhelming and cluttered, Jam list – Lacks useful information and is uninformative

Japan Trip 2024

Your saved places   I'm ready!

Tokyo Tower
東京タワー

Add more

Jake's saved places   Not ready

Tokyo Tower
東京タワー

4.4 ★★★★☆ (69,887)
Observation deck

| Overview | Reviews | About |

Directions   Saved   Nearby   Send to phone   Share

Reminiscent of the Eiffel Tower, this landmark features observation areas & other attractions. >

Pitch it like you mean it   Edit

I want to live my Parisian dreams w/o gg to Paris pls ;, xoxo love y'all many many 🥰 🤭😊

Japan Trip 2024   🔒 Share ▾

Jam list (Everyone's saved places)

Tsukiji Outer Market 築地場外市場	Mori Art Museum 森美術館
Tokyo Skytree 東京スカイツリー	Tokyo Tower 東京タワー
Akihabara Station 秋葉原駅	Yamatane Museum of Art 山種美術館
teamLab Planets チームラボプラネッツ TOKYO OMM	The National Art Center 国立新美術館
The Gundam Base Tokyo ガンダムベース 東京	Yasukuni Jinja 靖国神社
Tokyo Disneyland 東京ディズニーランド	
Tokyo Toy Museum 東京おもちゃ美術館	

Vote now or hold your peace

Prototype 1 Findings – The Not So Good

Voting system – Would not use if too many places to vote through,

Aesthetics of voting system

Select your favourite locations

Tokyo Toy Museum
東京おもちゃ美術館
4.3 ★★★★★ (1,733)
Museum

Overview   Reviews   About

Directions   Save   Nearby   Send to phone   Share

Opened in 2008 in a former elementary school, this
museum houses toys & games from around the
world.

Other Findings

Users looked for:
- Sorting or filtering functions
- Search function within the board
- A view of everyone's saved places pre-voting

Prototype 2 Findings - The Good

Adding trip details + its snapshot view on board, **Filters + toggles & Search function**, **Less cluttered view** of each saved place

Create a new trip

Start planning your new trip!

Where to
Japan

Travel dates
5 - 18 Jun 2023

Add Flight(s) +

Add Hotel(s) +

Create Trip

Japan Trip 2024
📅 5 - 10 Jun 2023

Flight   Edit

SIN → **HND**
Singapore   Tokyo

Mon, June 5   12.20 – 19.05
Scoot   7 hours

+ Add new flight

Hotel   Edit

Grand Hyatt Hotel, Tokyo
1 Tokyo Square, Tokyo 049178

Mon, Jun 5 – Sun 18 Jun

+ Add another hotel

Done

Scoot A1234   ✈ 11 Jun 2024 SIN · 06:05   ✈ 18 Jun 2024 HND · 23:05   **52** days left to Japan Trip 2024

Your Saved Places   All Places   Teresa's   Jake's   +   Sort by **Last added**   Filter   🔍

+ **Add Places**

Tokyo Disneyland
東京ディズニーランド

teamLab Planets

Prototype 2 Findings - Finalized List

Filtering and sorting system for finalized list (Post voting)

Sample of filtering:
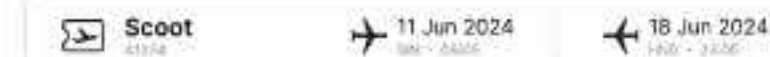
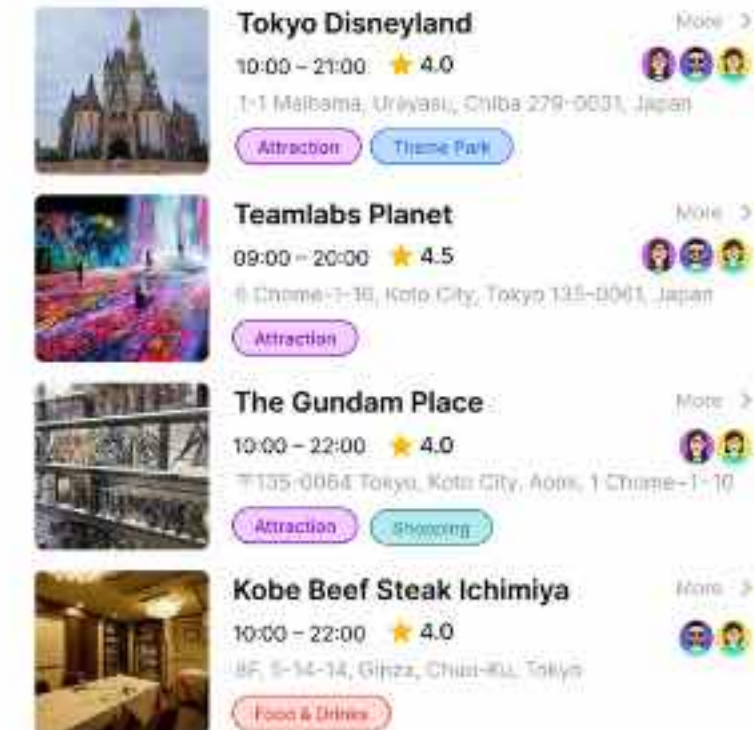## Users' preferred format:
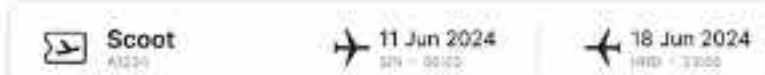
In short,

Users liked:
- Sorting, filtering, and search functions
- Toggle views
- List format for finalized list of places to visit

Users wanted:
- Toggle for different cities
- More information to be showcased per saved places
- Optional voting but still obtain a finalized itinerary list
- Better voting system (For those who wants it)

Final Prototype

Centralised platform

Allows users to input their **trip information**, see an **overview of all saved places per city, and easily share the board with friends**

Before you start planning,

fill in your trip information (Optional)

○ Singapore	⇄	⊙ Tokyo

| 📅 Tue, 11 Jun | ‹ › | Fri, 14 Jun | ‹ › |

| ⊱ A1234 |

| 🏢 Grand Hyatt Hotel, Tokyo |

| ○ Tokyo | ⇄ | ⊙ Osaka |

| 📅 Fri, 14 Jun | ‹ › | Mon, 17 Jun | ‹ › |

| ⊱ Add flight(s) |

| 🏢 Quintessa Hotel Osaka Bay |

| + Add another city |

Skip   **Done**

Tokyo   Osaka   +   Sort by ▾

🔍 Search in Japan Trip 2024, Tokyo

| ⊱ Scoot · 11 Jun 2024 A1234 | SIN · 06:05 | 🏢 Grand Hyatt Hotel 11 to 14 Jun 2024 | **52 days** to start of trip |

Everyone's   **My saved places**   Jake's   Teresa's   Filter ▾

+
Add places

Tokyo   **Osaka**   +   Sort by ▾

🔍 Search in Japan Trip 2024, Tokyo

| 🏢 Quintessa Hotel Osaka Bay 14 to 17 Jun 2024 | **55 days** to start of trip |

Everyone's   **My saved places**   Jake's   Teresa's   Filter ▾

+
Add places

Universal Studios Ja... ⭐
@ Theme Parks

Akiba Kart Osaka ⭐
Others

🖳 I'm done

Visual preference aggregation (Pre- Final list)

Allows users to see **individual and group-based** saved places, **sort** and/or **filter** them
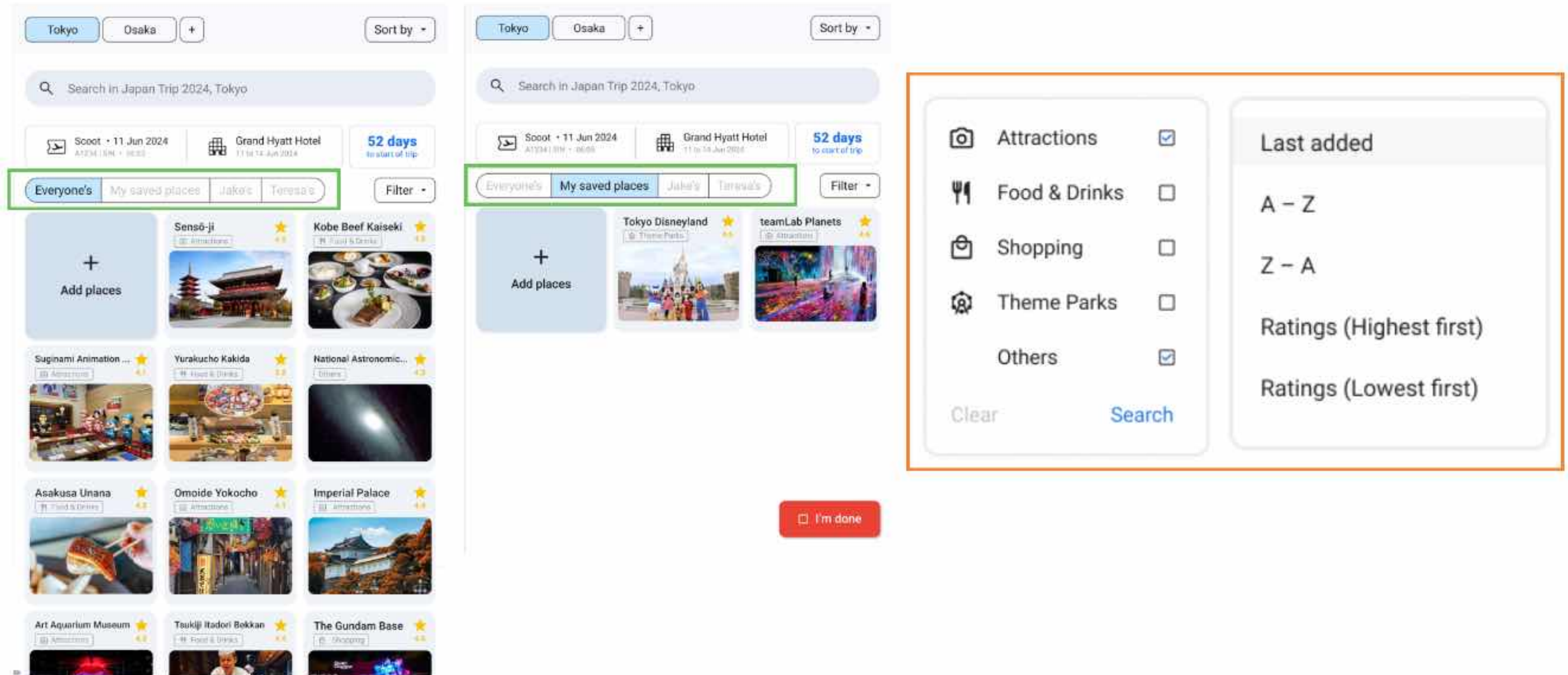
Visual preference aggregation (Finalisation of list)

Automated preliminary list based on how many % of the group saved a place to their board
- 75% of group added SAME place to board = automatically in 'Preliminary list'

Preliminary list <u>Edit list</u>

+ Add to list

Popular in your group

Information shown for each saved place:

Tokyo Disneyland ⭐ **4.6** (102,275)
Theme Parks · 21.0 km from hotel
08:00 – 22:00

Visual preference aggregation (Finalisation of list)

Automated preliminary list based on how many % of the group saved a place to their board

- < 75% of group = collated in another list 'Other saved places'
  - **Places can be voted on using pairwise system for an automated final list**
    OR users can manually add places from 'Other saved places' to 'Finalized list'

Pairwise voting system + Results

Chosen for a more effective generation of 'Finalized list' – Have yet to validate if this is more effective

Pairwise voting UI:

Which place do you want to visit? ✕

🍴 Kobe Beef Kaiseki ⭐
Food & Drinks 4.5
16:30 – 00:00
$$$
3.1 km from hotel

or

🍴 Asakusa Unana ⭐
Food & Drinks 4.2
10:00 – 17:00 (Mon – Fri),
10:00 – 18:30 (Sat & Sun)
13.1 km from hotel

[Abstain] [Submit vote]

• • • • • •
1/6

Pop-up message:

Voting completed for Japan Trip 2024, Tokyo!

Great job sharing your preferences for the Tokyo trip!

Some friends haven't voted yet. Invite them to make the experience even better by casting their votes.

[Okay]

Voting results UI:

Most voted places ✕

📷 Imperial Palace ⭐ 4.4 (24,857)
Attractions • 21.0 km from hotel
09:00 – 11:15 & 13:30 – 14:45 (Tue – Sat)

📷 Art Aquarium Museum ⭐ 4.2 (2,855)
Attractions • 4.6 km from hotel
10:00 – 19:00

🍴 Asakusa Unana ⭐ 4.2 (280)
Food & Drinks • 13.1 km from hotel
10:00 – 17:00 (Mon – Fri), 10:00 – 18:30 (Sat & Sun)

[Okay]

Access our prototype here

03

Effectiveness

Comparing Travel Board to Current Solutions

Both level in being a space for collaboration.

Switching between apps to copy paste links

Travel Board

Your buddy, for buddies overseas

Input saved places in the same board, integrates navigation

Comparing Travel Board to Current Solutions

Both level in being a space for collaboration.

Manually decide which ones to go to

Saves time & relationships - no more bickering over Disneyland & DisneySea!

Based on User Goals & Market Gap

Easy to collaborate

Familiar and intuitive to use

Better organisation of places of interest

Minimized toggling

Allows for visual preference aggregation

Clear sentiment tracking

Aids in streamlining and improving group decision making for overseas trips

04

Market Sizing

Target Group

Casual travellers travelling in groups of 5 or more

Market Sizing

Total Addressable Market

1B Active Users Per Month

Serviceable Available Market

Assuming only 40% use Google Maps on Web and 60% use it for planning their travels -> 240M Users Per Month

Serviceable Obtainable Market

Assuming 40% travel in groups of 5 or more -> **96M Users Per Month**

Go-to Market
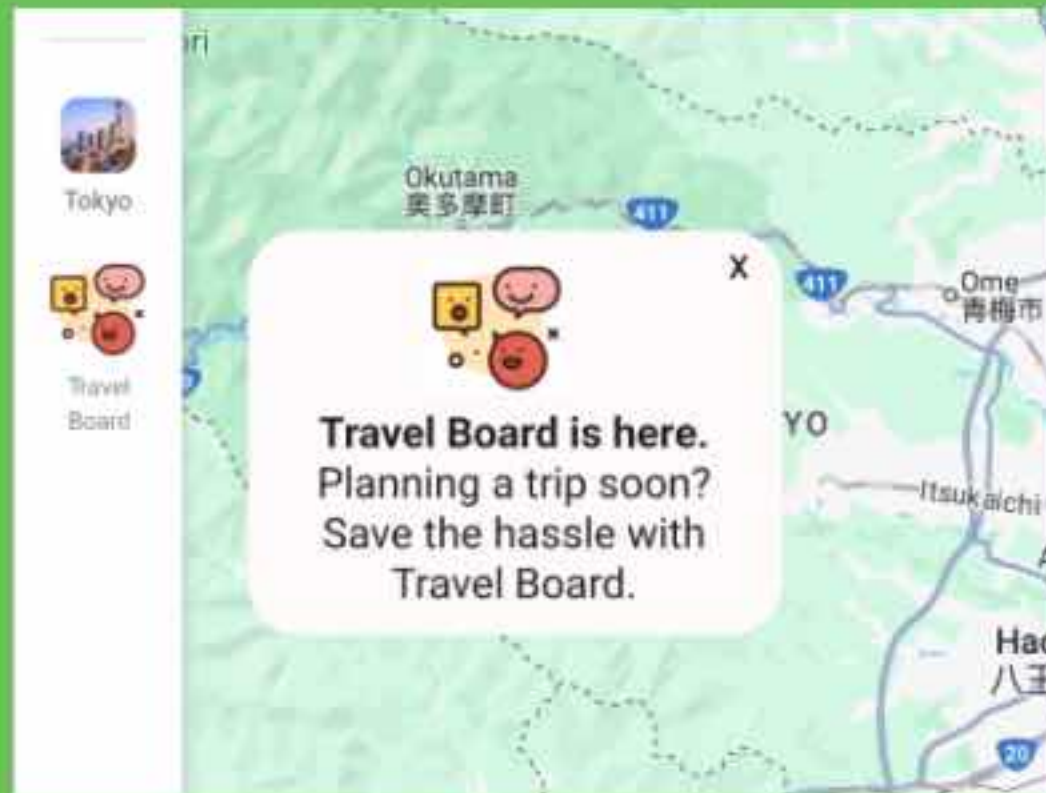
In App Notifications

When existing users first open the web app after launch, they will be able to see this pop up notification.
Estimated timeline: 1 week

Go-to Market

App Notification

When Google detects a search for an overseas location that likely implies the user is planning for a trip, they will receive a notification about Travel Board. Estimated timeline: 2 weeks

Google Maps   1m ago
Planning a trip with friends and family? Say hello to hassle-free planning with Travel Board

05

Technical Feasibility

Value Created:

More trip planning, less formatting, no more toggling between apps!

Necessary Cost

Team of developers (~10 developers)

Computational costs (API costs)

1-year initial development cost

Projected Profits

5-10% increase in average time spent

increase in traffic on Google Maps

up to 1% increase in total time spent on Google products

06

Product Monitoring

Future Development

- Live Chat system
- Gen-AI powered itinerary suggestions
- Mobile App compatibility

Thank you!

Any questions?

References

"Types of Map Projections", geographyrealm.com, https://www.geographyrealm.com/types-map-projections/

Why are they ineffective?

Telegram

- Difficult to organise and track places to visit
- Lacks clear sentiment tracking

GDocs

- Issues in document formatting
- Repetitive toggling
- Lacks clear sentiment tracking

Canva

- Difficult to organise
- Limitations in accessibility
- Lacks clear sentiment tracking
- Repetitive toggling

Product Rollout

How will our users get to know about this?

Extended Rollout

Deploy internally first
More than 15 days for feature visibility

Social Network

With a platform like Google Maps, users are bound to give out their thoughts on online discussions through social media and forums.

Product Testing Roadmap

TESTING PHASE	STAGE 1	STAGE 2	STAGE 3	STAGE 4
PRE-RELEASE PRODUCT TESTING WHAT?	Functional Testing	A/B Testing	Functional Testing	A/B Testing
	Performance Testing - Technical Aspects			
HOW?	User Interviews			
POST-RELEASE PRODUCT TESTING WHAT?	Beta Testing		Additional Features Requirements	Functional Testing
HOW?	App Feedback/Reviews + Surveys		User Interviews	
	Monitoring Success Metrics			

Product Monitoring

What metrics will we use to validate the success of our product?

USER ENGAGEMENT

Measure the level of user interaction with the app

USER RETENTION

How we can get more frequent travellers to make the most of this product?

USER SATISFACTION

Feedback on experience and perceived value.

Success Measures

How will we measure the success of the product?

Retention

- Cohort Analysis
- Product Usage Frequency

Engagement

- Average Product Use time
- Average number of trips created per user
- Average time spent per trip
- Activity metrics: which feature are most/least used

Satisfaction

- User Interviews
- Surveys
- Reviews Through In-App Mechanisms