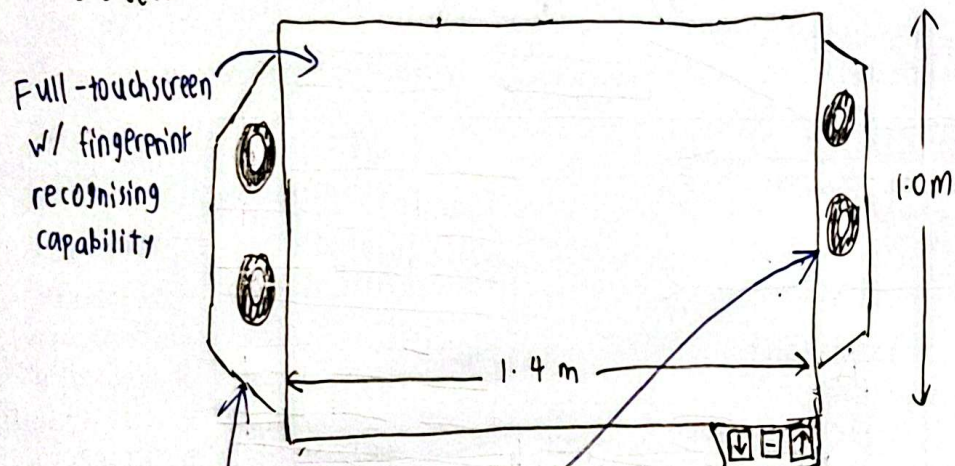
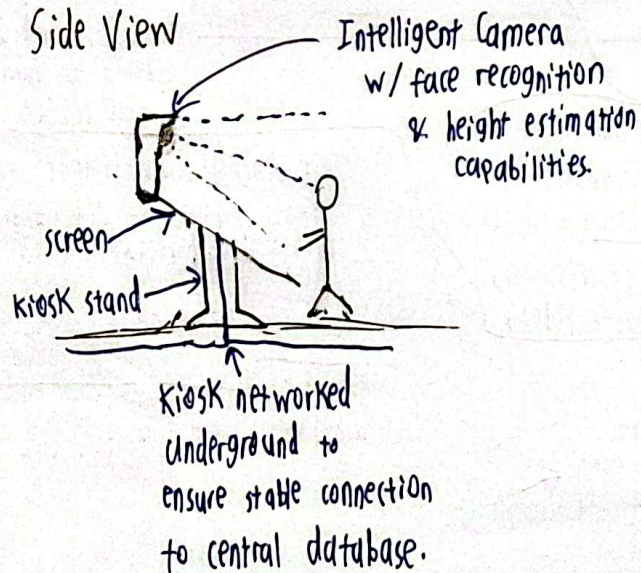


Screen

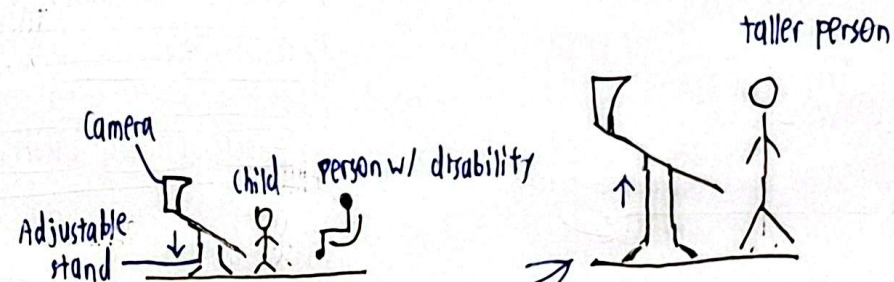


Speakers for presenting speech, music & other sounds

Side View

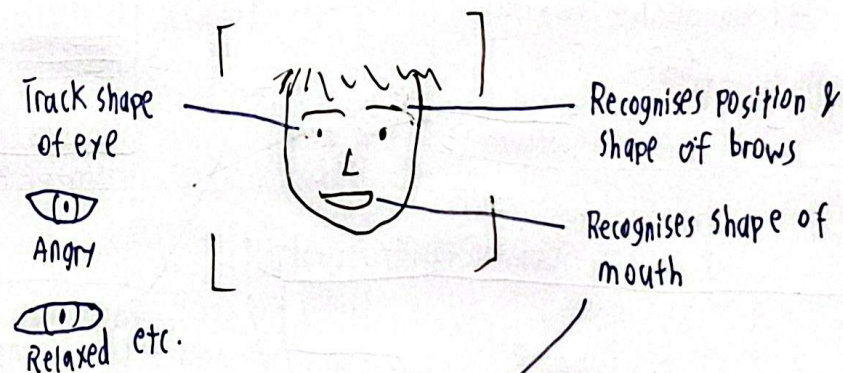


Height adjustment



Face & Emotional recognition

Camera view:



Based on combination of facial features, infers user's emotional state according to Valence-Arousal Circumplex

Screen UI interfaces.

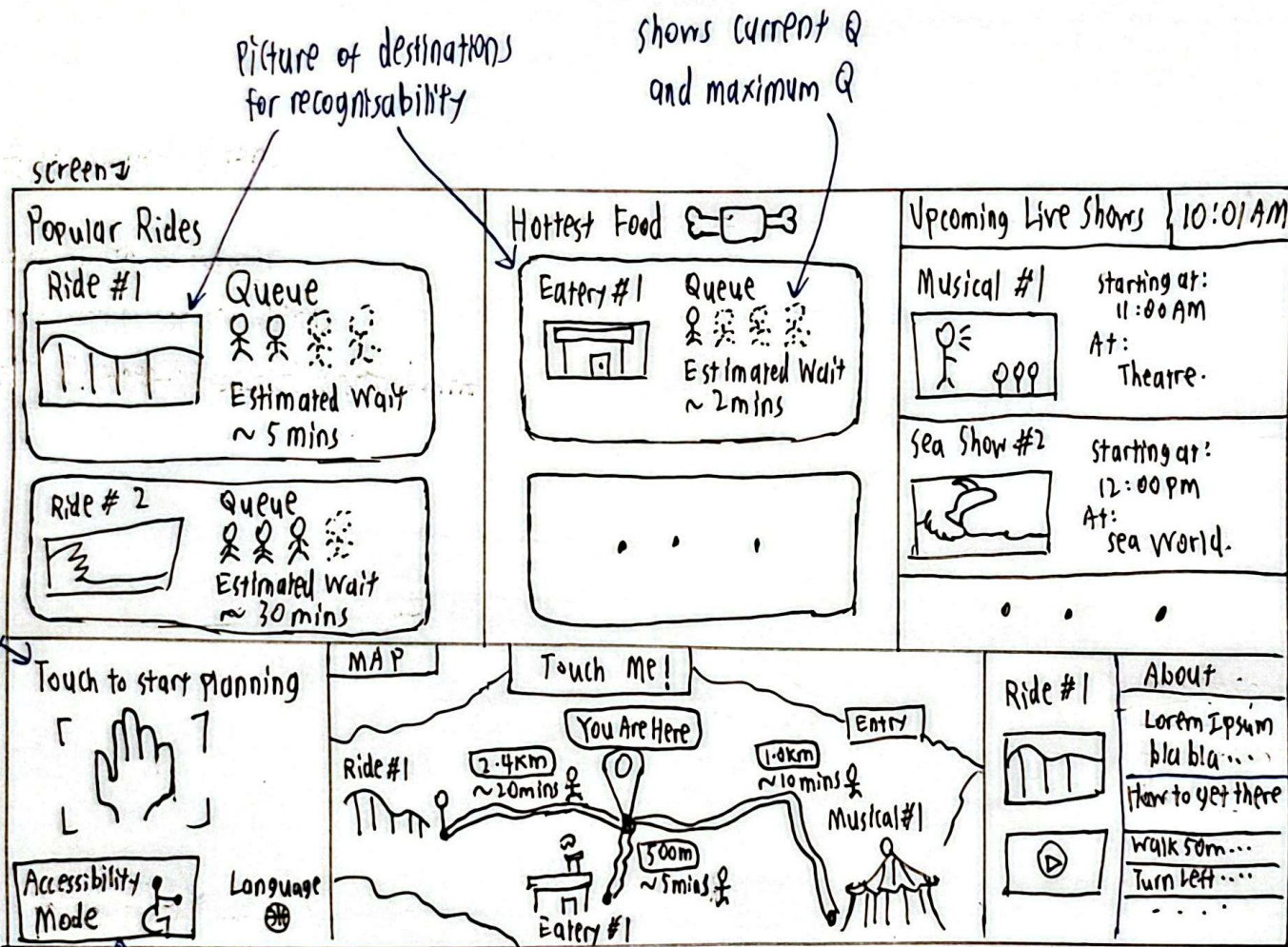
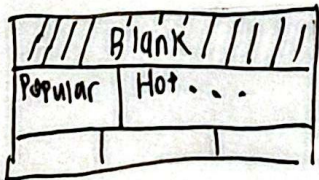
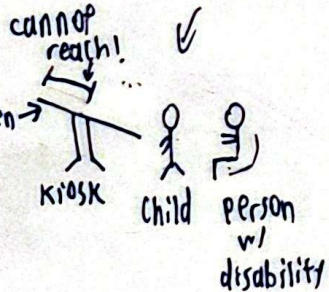
① Main Interface.

- Landing page that greets passer-bys / visitors.
- show popular destinations/ choices for new visitors
- Show wait & queue times
- Allow for interaction mode only when interacted with.

Fingerprint recognised for next page features

②

Most touchable/ interactive elements at bottom of panel for easier reach.



Top panels. Periodically auto-scrolls down the list to show queue times at popular places.

↑ ↓ user can also manual scroll to over-ride auto scroll.

- shifts UI down for easier view
- Increases font size
- Some cards in top panels hidden from view to save space

- Interactive map
- shows popular destinations
- corresponds w/ top panels
- shows distance and path to destination from current position
- shows estimated time to walk
- tapping on a destination shows details on next panel

Path on map is highlighted.

Panel that shows picture, videos related to destination as well as brief description. When a card in top panel is clicked on. Also shows walking directions to reach there.

② Interface for detailed destinations AND subset of destination selections.

After touching [👉] in ①:
 Allow user to return to previous page
 User registration screen

< Return

What is your name?

Keyboard ...

< Welcome, John

Add your friends & family too!

[👉] [👉] [👉]

Continue >>

if have others together
 Register family / friend

<	Name	Name	Name	Add more
	<input type="text"/>	<input type="text"/>	<input type="text"/>	Continue >>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Keyboard

Affects the cards shown in Rides, Food, Live shows
 Floating panels that can be dragged around the screen for multi-users

Interests ⊖

Adventure x Horror x

+ Sport + Princess + Search

Categories ⊖

Wait Time Walk Dist...

☐ < 5 mins ☐ 10 mins

09:30 AM

Plan 1 John, Sus...

Dra... McD... NEXT

Plan 2 Ben... NEXT

+

McDonald

Dragon Roller

2.4 Km ~ 20 mins

You Are Here

300m ~ 5 mins

Rides

Thrill 0 Height 8 ...

Suggested Dragon Roller 4.7 ★★★★★

Queue Wait 20 ~ 5 mins

Description From here: 10 mins

Water Bomb 3.5 ★★

Food

Rating Hours ...

McDonald 4.8 ★★★★★

Queue Wait 20 ~ 10 mins

Description From here: 2 mins

Live shows

Suggested Le Fortune Starting At 10.00AM

Detailed cards for each dest. Similar to GMaps to reduce learning time

- Panel that allows of filtering of destinations by Interests (cross-destination)
- Users can add / remove by tapping the + / - icon.
- Search opens a floating keyboard to type in values

search bar

Keyboard

suggested values appear as user type

Dr1

Dragon

Dream

user can tap to add.

⊖, minimise button, hides the content of the tabs
 allows for more view

customise users
 Plan panels that provide brief overview of destinations to visit for each group. (see ③)
 Add more plans

coloured trucks depending on which plan destination belongs to
 Add destination to plan
 - draggable Panels
 - can move left / right on bottom edge of screen
 - can expand up / down to show more cards.

Left-right scrollable destination-specific filters (Intra-destination)
 (e.g. height restrictions, specific only to rides)
 Based on filters, dynamically update destination cards to suggest to user

Other categorical filters to show subsets of destinations (cross-destination)

Expanded view (tap on ⌵):

categories ⊖

Wait Times Walk Time

Duration of Activity

③ Refining and ordering destinations in plans.

- Accessed by tapping NEXT in ②:

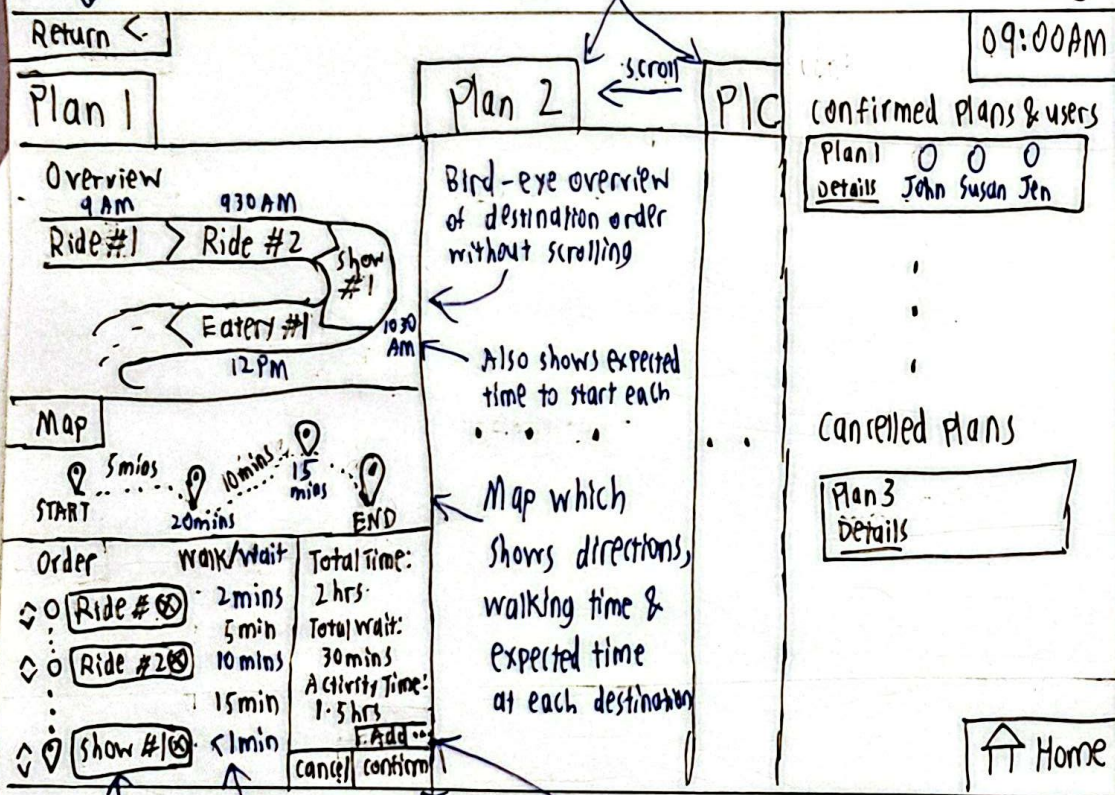


- Destinations are first auto-arranged by algorithm to minimise waiting and walking times.

Allows users to return to previous page

Left-Right scrollable plans

screen 1



Bird-eye overview of destination order without scrolling

Also shows expected time to start each

Map which shows directions, walking time & expected time at each destination

- Users can tap-hold drag & drop to reorder destinations (scrollable list)

shows expected walk & wait times at destinations

allow user to cancel/confirm plans

Add more destinations to this plan (returns to ②)

- (X) button allows user to change mind and remove destination

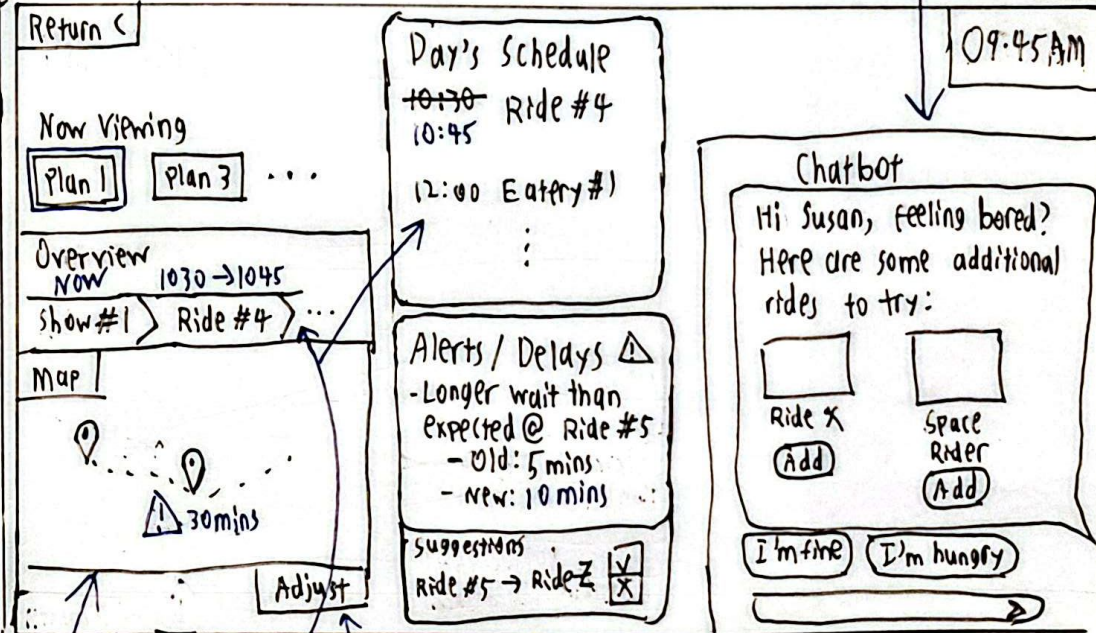
④ System recall past interactions, dynamically adjust plans.

User Approaches Kiosk

camera face recognition



emotion recognition



- Recalculating after each stop

- Pushes back subsequent activities automatically

- map warns of delays @ certain spots

(longer queuing times etc.)

- tapping on it also

scrolls the Alert/Delay box to it.

Takes user to ③ to make major changes

- If system sees longer wait times / delays / cancellation, it will provide suggestion in scrollable box.

- Always give user agency and control

- Make use of emotion recognizer to recommend changes to plan

- Always seek user confirmation to avoid errors in recognition

- User can ask for recommendation / feedback