

## Assignment

An infrastructure company and some city's airport authority collaboratively want to develop a mobile based application for commuters. The application would be one stop information center for an user who commutes through various airports. User can get details of various corners, counters, security gates, shops, lounges, rest rooms etc. and locate those easily. User can get flight information of all different flights. Also the user/customer will get personalized notification like flight status and information for every check-in or check-out steps. The intelligent system would continuously track user's location and guide him accordingly.

This was the small brief from the stakeholders. Now as an UX expert, your job is to breakdown all the possibilities and provide a best solution for the commuters. Do all the required research at your end and come up with the solution.

#### Test 1:

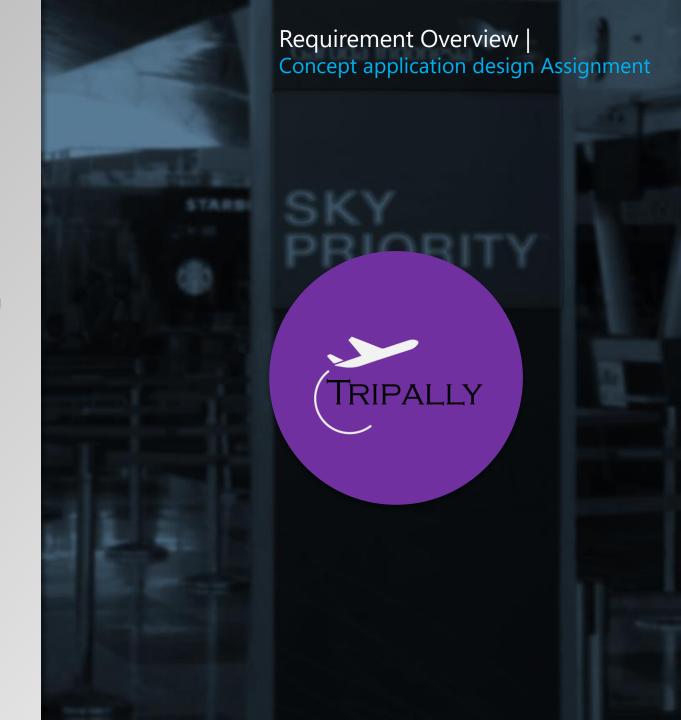
Creating Wireframe After doing all the research you have to create a wireframe at least for a single flow. Take a scenario like User entered the airport for the first time to make a journey abroad.

#### Test 2:

Designing the Visual Interface Based on the wireframe, create visual design at least minimum 3 screens to showcase your best capabilities.

### Test 3:

Design Document Also we would like to know your thought process for this solution. Create a design document and present you design thought process behind your design solution



# Requirement Overview | Understanding and defining scope

## Who:

For domestic or international traveler who commute through various airports

## What:

One stop solution of information's including: Flight status, for every check-in or check-out steps. Also about the details of various corners, counters, security gates, shops, lounges, rest rooms etc.

## How:

This must be a smart mobile application that could fetch/ track information on real time and guide the user at every step during journey.

The application could have IOT, AI, VR integrated for smarter and flawless experience

# User Definition/ Analysis | Persona 1

## **User Profile**

## 1. Domestic Traveler

Age: Neutral (18-70 years)

gender: Neutral (Male, Female, Transgender)

Air Travel experience: Zero to High

Technology experience: Zero to Moderate Domain Knowledge: Zero to moderate

Language: English Preferred

## 2. International Traveler

Age: Neutral (18-70 years)

gender: Neutral (Male, Female, Transgender)

Air Travel experience: Zero to High

Technology experience: Zero to Moderate

Domain Knowledge: Zero to moderate

Language: English Preferred

# Task Profile

Checking flight status: Yes Immigration formalities: No Boarding pass collection: Yes

Luggage Drop: Yes Security Check: Yes

Shopping/ Restaurant/ Spa/Restroom/Medical Assistance:

Yes

Retiring room/ logging: No Boarding on flight: Yes Connected flight: Yes/No

Collecting luggage from conveyer belt: yes

Custom check: Yes

Checking flight status: Yes Immigration formalities: yes Boarding pass collection: Yes

Luggage Drop: Yes Security Check: Yes

Shopping/ Restaurant/ Spa/Restroom/Medical Assistance:

Yes

Retiring room/ logging: yes/no

Boarding on flight: Yes Connected flight: Yes/No

Collecting luggage from conveyer belt: yes

Custom check: Yes

## **Environmental Profile**

Day light/ heavy light: Yes Noisy environment: Yes On the move: Yes

Static: Yes

Public Place: yes

Day light/ heavy light: Yes
Noisy environment: Yes
On the move: Yes

Static: Yes

Public Place: yes

# User Definition/ Analysis | Persona 1

# **Nina Wadia**



AGE

**OCCUPATION** 

RETIRED SCHOOL TEACHER

STATUS | WIDOW

LOCATION | COLABA, MUMBAI. INDIA

DOMESTIC FLYER

ARCHETYPE

INFREQUENT

### **Scenario:**

After her retirement from St. Peter missionary school Nina decided to stay independently at there Colaba residence. Even after her husband passed away 2 years back, she has refused to stay permanently her daughter, one stay and Guwahati and another is at Dehradun.

But every year she travels twice to her daughter and spends one month with each.

However, Air travel makes her very nervous as she feels lost all the time. From boarding to security checking, from reaching to the gate to boarding at flight, from collecting luggage from conveyor belt to getting the taxi at airport parking all makes her feel she is doing something wrong. She always feels a urge to get a companion / assistance that would make her travel relaxed and stress free.

As she is fairly good mobile savvy and regularly use it for buying grocery, medicine and for paying bills, She also want some app that would help her

# **Objective**

She is looking for an Mobile app that

Could guide her, notify her, remind her for each important steps required at airport

## Goal

- She want notifications and updates of her flight status
- She want a smart assistance help het to collect boarding pass, show the security checking area, departure gate and conveyor belt
- Also help her to find wash room, café, shopping area and medical assistance

# **Pain point**

- She can not find one single app that can give all the information she is looking for.
- Apps are not smart enough to understand if she is stuck somewhere
- Apps are not customized enough to give only those information she needed
- Apps doesn't have the artificial intelligence to prevent her if something went wrong

User Definition/ Analysis | Persona 2

# **Andrew Hopkins**



AGE 38

OCCUPATION NATURE PHOTOGRAPHY

STATUS SINGLE

SINGLE

LOCATION

LONDON

TIRE

INTERNATIONAL FLYER

ARCHETYPE

**FREQUENT** 

### **Scenario:**

Andrew work with a famous travel and nature magazine. He travels most of the time. Currently he is on an assignment to cover Asia. Due to that he comes to India very frequently mainly to capture Himalayans Terrain, Rajasthan, Goa, South India etc. Sometime He also go to other Asia countries through India.

Most of the time his schedules are very hectic, even he goes directly at his work site straight from the airport. And majorly he requires to catch connected flights too.

For a reason he relies on airports for freshen up, having meals, taking rest or buying essential things. Every time a major time get wasted a immigration que of collecting luggage at conveyor belt. He is looking for a alternate solution where he does not need to search for things or could do multiple task together. Like while he is on que for immigration could he book a cab for him or place order a for coffee

# **Objective**

He is looking for a mobile app that could give smart guidance at airport. Track movement, suggest proactively to save time and effort.

## Goal

- He wants information regarding his connected flight and it's departure gates to save the time to find out
- Need smart suggestions regarding best buys of foods
- Guidance on rest rooms, cloakroom, shops, retiring rooms more than a digital map
- Live tracking and status of his flights

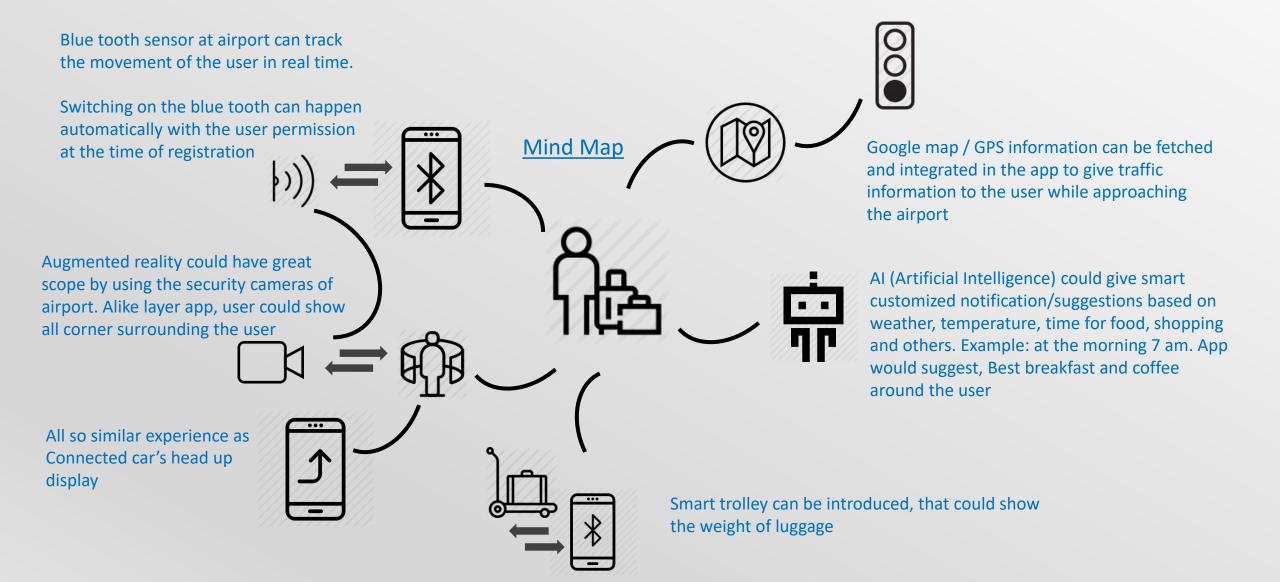
# **Pain point**

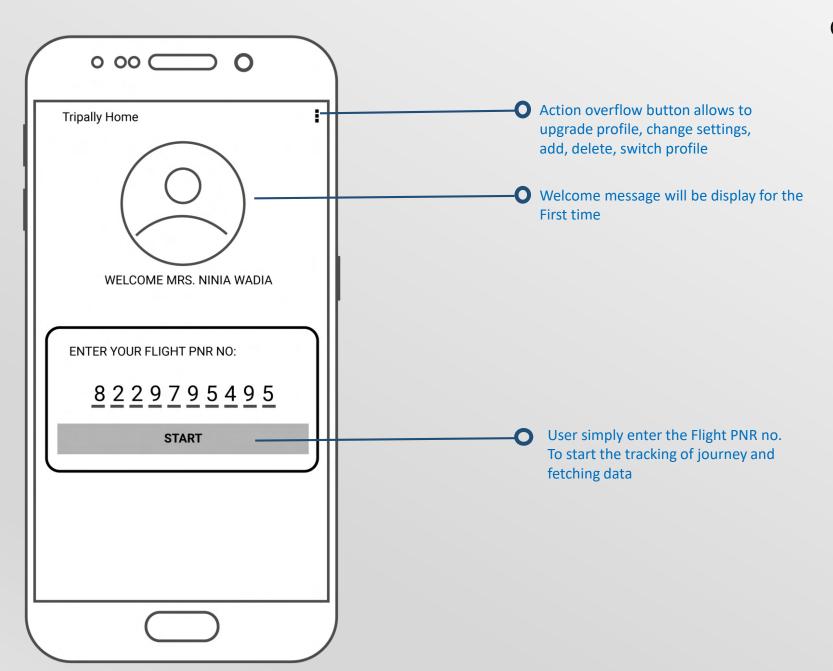
- The big barrier at Asian countries is understanding language. Even at airports he has faced similar issues
- Each country has their own rule of security check. If get some guidance person can get himself ready as accordingly
- Currency exchange is a hassle as well.

  He carries currency of multiple
  countries as he travels, it is difficult to
  remember the exchange rates, or
  understand the money paying at shops

# User Story: As an user want to take a domestic flight

Stage	Reaching Airport	At Airport Gate	Boarding pass	Security Check	Waiting Time	Reaching departure gate	Boarding on Flight
Customer Action	User reaching to the airport from home/hotel/others by car, bus or rail	User show the ticket and Photo ID proof/Passport to enter the Airport	User collects boarding pass and drops luggage's	User goes through the security checking including everything his is carrying as cabin luggage	waiting time for fli refreshment, do	n announcement of ght use makes cue at eparture gate to board n flight	User is boarding in the aircraft
Touchpoints					ÅÅÅ Ö Å		
	Neutral	Delightfu	ul				
Experience			Critical	Critical	Delightful	Neutral	Delightful
Product Goals	User should get the flight details, terminus and gate information	User should be able to show digital ticket and ID(if applicable) within the app. App must guide the user to go to the boarding pass desk	Can we capture the digital. Boarding pass and the luggage details to track? QR code??	Make the user aware of rules at security check, So that they could prepare themselves to save time and hassle	Give personalized and smart suggestion to the user about restaurant, stores, restroom, medic assistance, internet, all other airport services	Guide them to reach	Give user information of flying time, time difference while reach at the destination. Ask for change the phone status as airplane mode
Suggestion	At this point user must enter his flight PNR to get all details. Also, information can be capture from google map to show the traffic status and suggest the	Could we use IOT to track user movement in real time and guide to their movement with Augmented reality? Similar as connected car	Could we use IOT to track user movement in real time and guide to there movement with Augmented reality	Display the list of things prohibited by govt. Give tips to how they should proceed to the checking zone to save time and hassle	This part of application could give most personalized and engaging experience. App must to proactive and reactive at this stage.	Some time people get late if they are busy with other activity. Need push notification and alerts unless they reaches to the	Help the user to set duel time if traveling other country. Keep the application idle till the travelling time. Turn the airplane mode on automatically





# Concept Model Creation | Wireframe

# **User Task:**

Start the Journey

# **Precondition:**

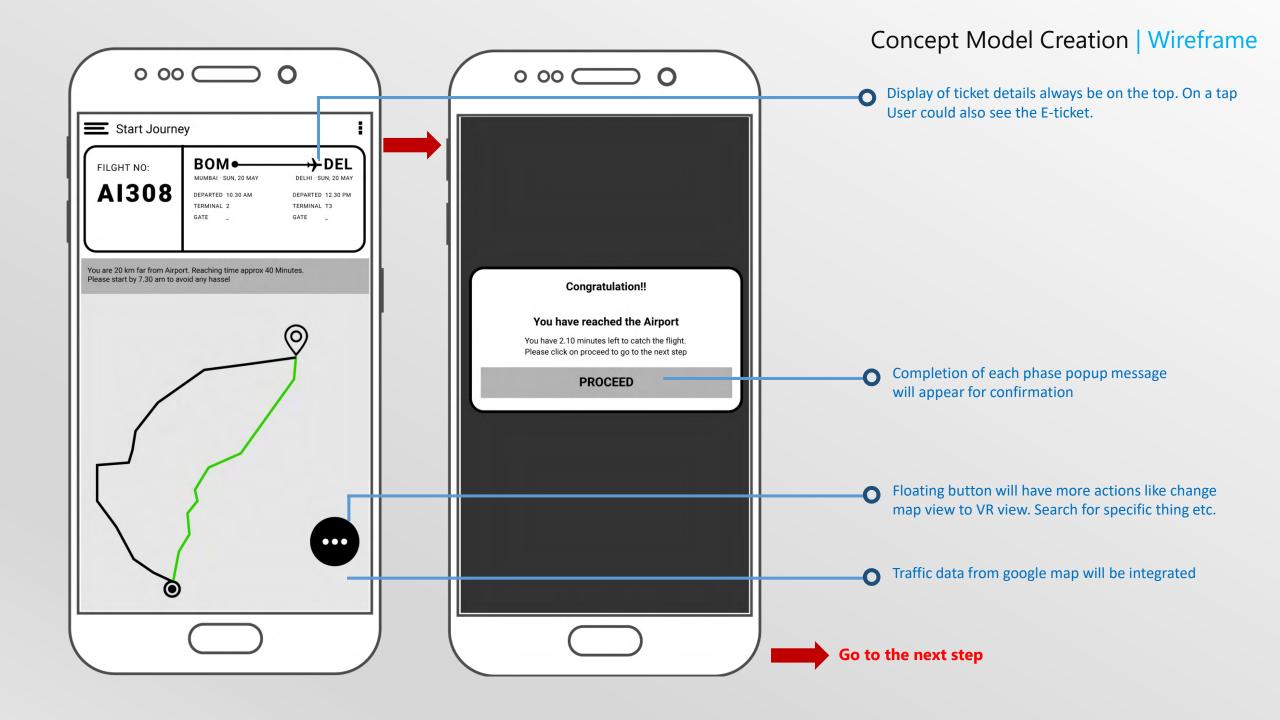
User has been registered with the app and logged in to the app

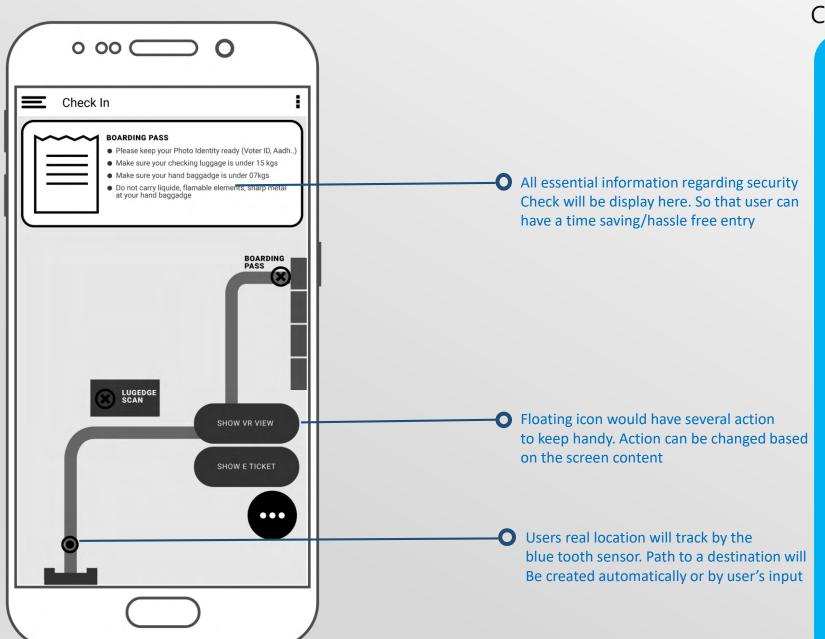
User is connected with internet

User allowed the app to turn on GPS

User allowed the app to turn on bluetooth

User allowed the app to pair blue tooth with blue-tooth sensors at airport





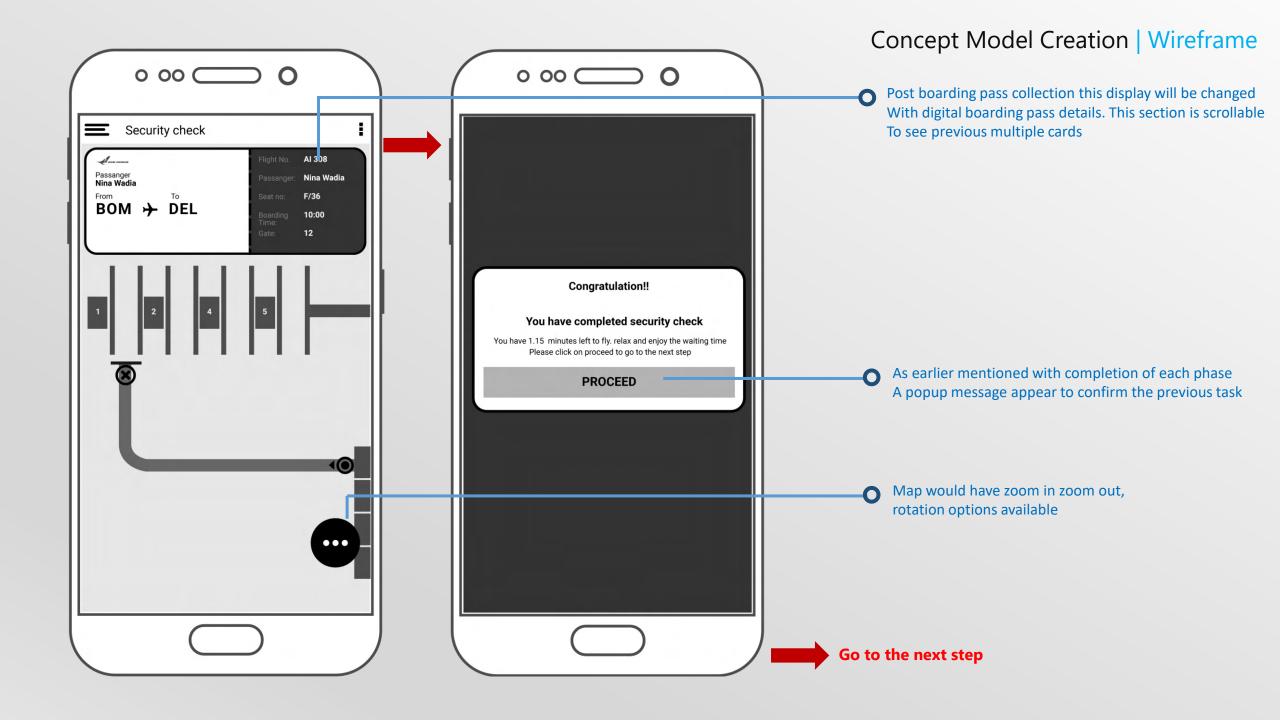
# Concept Model Creation | Wireframe

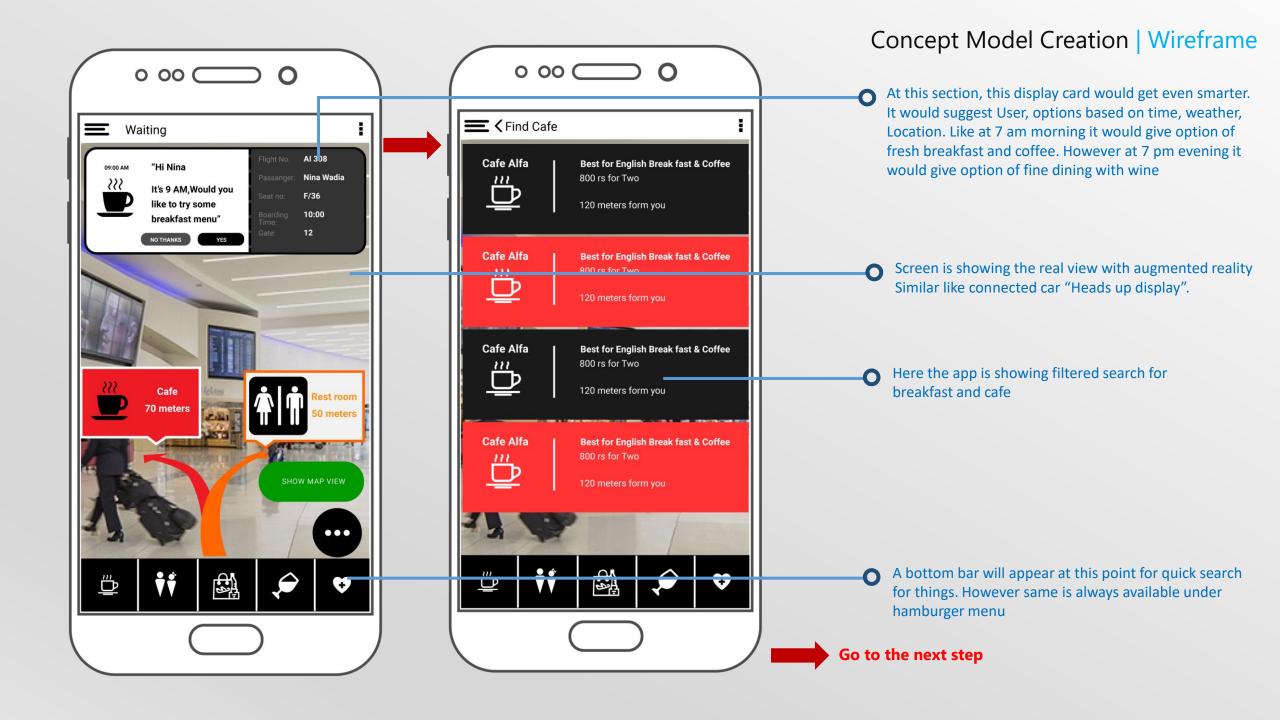
### **User Task:**

Collect boarding pass and move to the security check

## **Precondition:**

User already has entered to the Airport His blue tooth, pocket data/airport wi-fi is on and working.





# Design Strategy Creation | Visual Design

# **Inspirations**











# **Mood Board**



# Design Goal



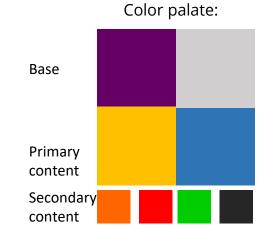
# Style Tile

Font: open sans

Open Sans [Regular]

**Open Sans [Bold]** 

Iconography:







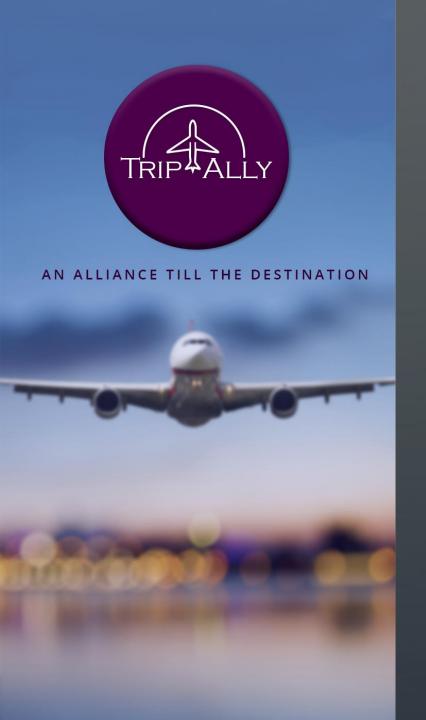


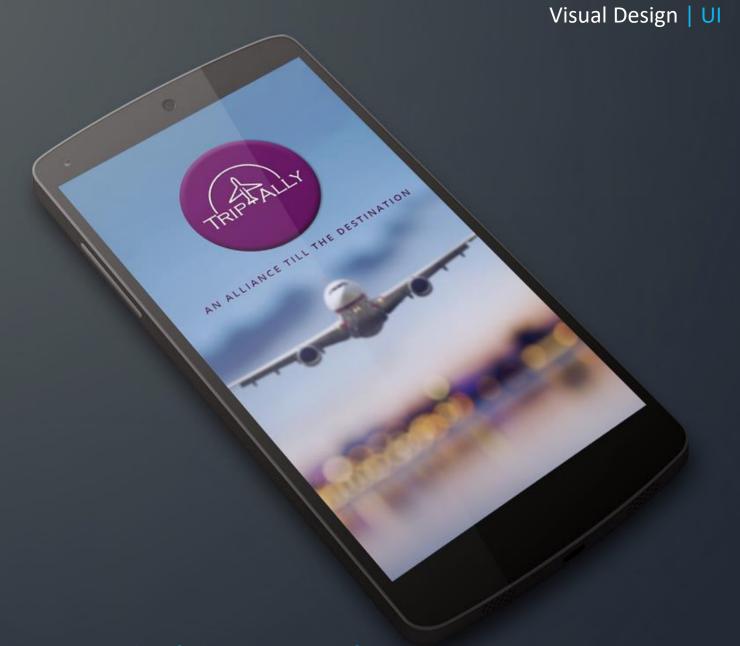
[icon for tabs-influenced by airport signage]





[standard navigation buttons]





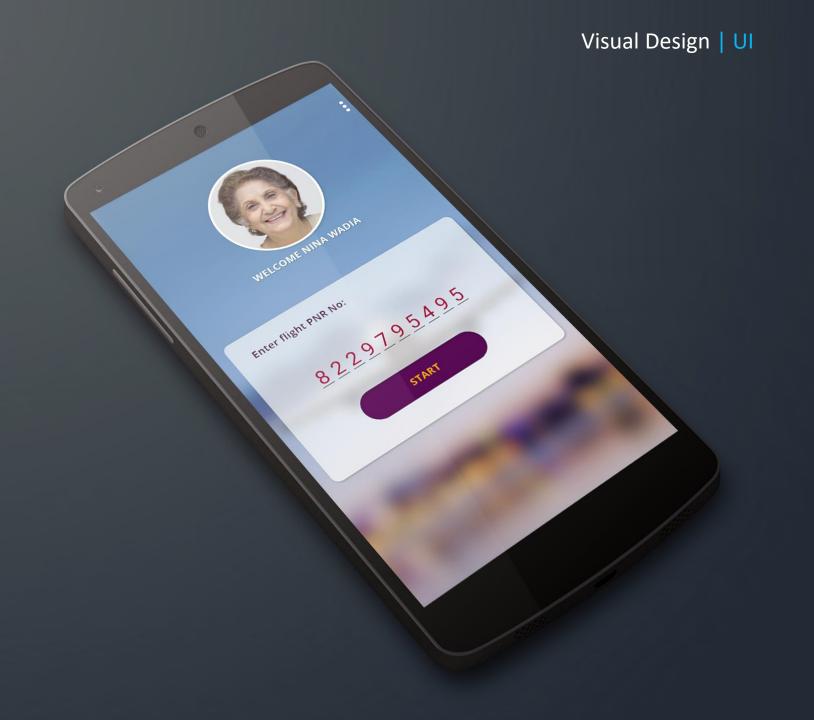
• All images are taken from internet just for presentation purpose

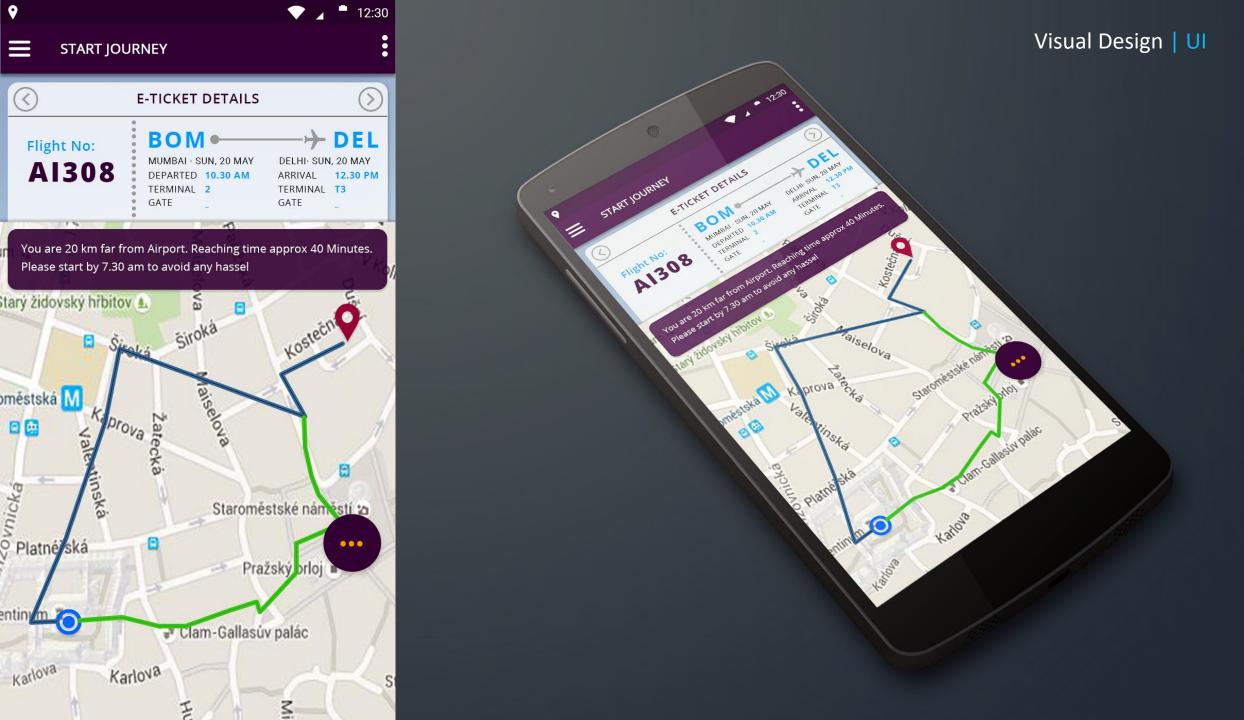


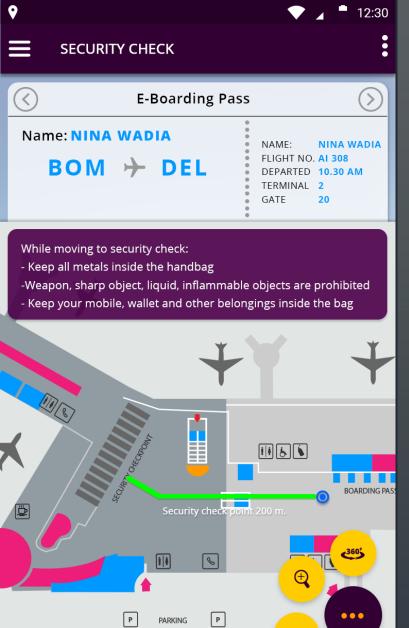
Enter flight PNR No:

8229795495

START





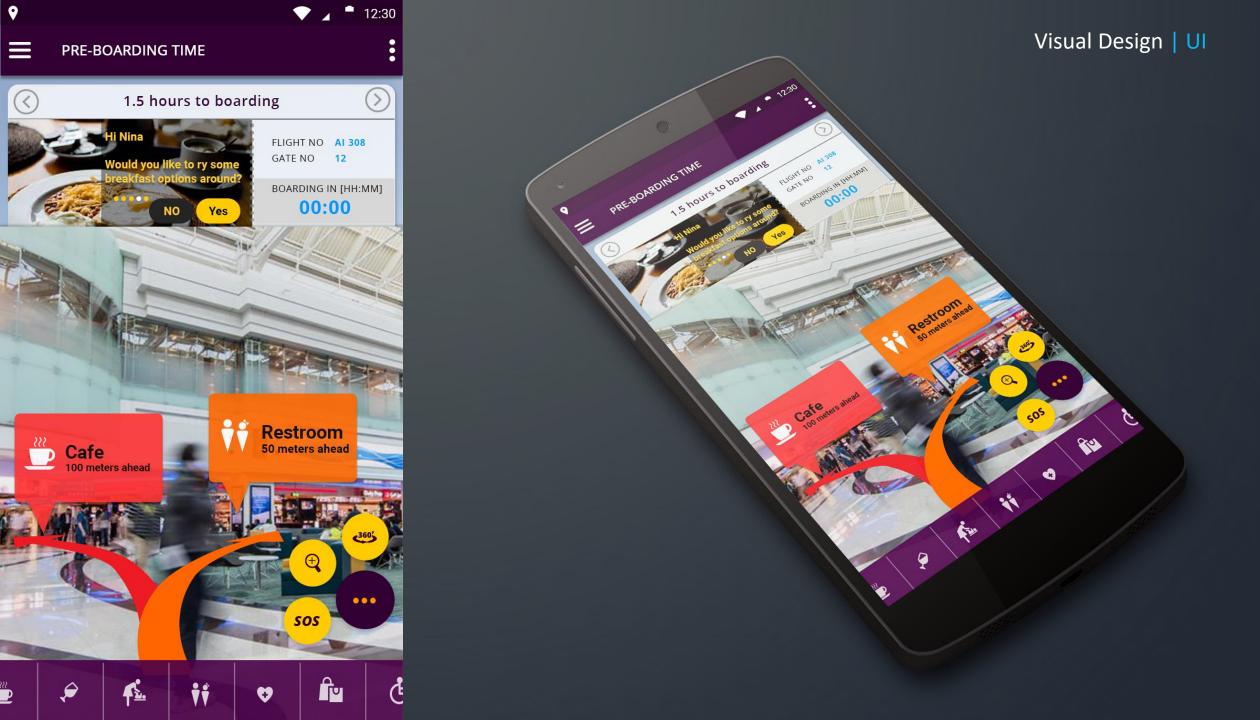


PARKING

sos



All graphics, icons including the Airport diagram has been created







Kaushik Sinha (UXER)

HCI, IIT Bombay, 2016 CUA- HFI, 2012 Bachelor of Visual Arts, 2000