# **HOPPER**

Hopper Flight App Proposal

# **TEAM TASKS**

#### **ANH MAI**

- RESEARCH
- CONTENT STRATEGY
- COMPETITIVE ANALYSIS
- PERSONA
- UI DESIGN
- PAPER PROTOTYPE FLIGHT PAGE
- WIREFRAME FLIGHT PAGE
- PROTOTYPING
- USABILITY TESTING
- STYLE GUIDE
- CASE STUDY DOCUMENTATION
- LAYOUT DESIGN
- UX DESIGN

#### **ELIZABETH GANGSTAD**

- RESEARCH
- CONTENT STRATEGY
- COMPETITIVE ANALYSIS
- USER PERSONA
- PAPER PROTOTYPE HOME PAGE
- WIREFRAME HOME PAGE
- PROTOTYPING
- USABILITY TESTING
- INTRODUCTION PARAGRAPH

#### **CARLOS AVILA**

- RESEARCH
- COMPETITIVE ANALYSIS
- USER SCENARIO
- PAPER PROTOTYPE PAYMENT PAGE
- WIREFRAME PAYMENT PAGE
- USABILITY TESTING
- FLOW CHART
- XD PROTOTYPING

# **CLIENT & PRODUCTS**

### Who is our client?

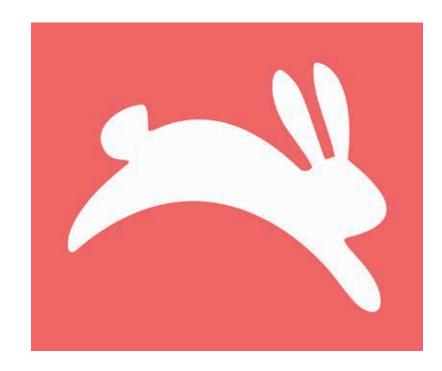
Hopper is based in Cambridge, MA. Hopper is a new kind of travel company that is reinventing the way people plan to travel and books flights by leveraging the power of mobile conversation and big data in the form of trillions of flight prices.

Today, Hopper is one of the fastest growing travel apps ever, with over 10 million installs since 2015.

### Why did we choose Hopper?

Their existing mobile site app is good but it is missing some of the basic information that is should be given immediately.

A more user-friendly revision of their app will serve as a demonstration of Hopper's excellent ticket options and care about their customers.



# **CLIENT & PRODUCTS**

### What type of mobile experience?

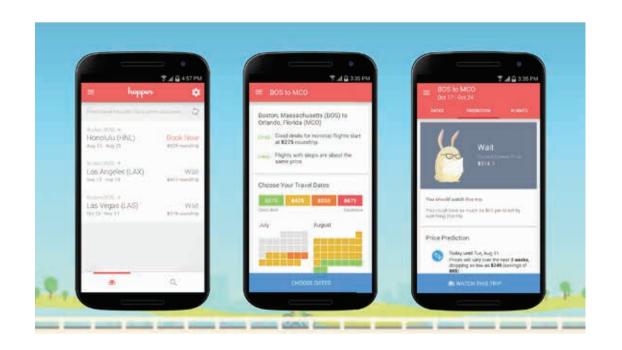
We decided to design around Android's capabilities and conventions to give users the best experience.

Our team decided to improve some features that will help their customers access the app anywhere and anytime.

Having this app re-design would not only allow customers search for the future flight, it also allows customers to keep track on every step they make without any confusion.

### **Target Audiences**

Aged 19 - 55 Traveler Students Businessman



### **Our Task and Goals**

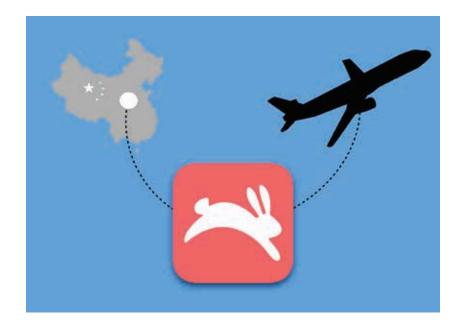
Our goal is to design an app version including multiple features that will help either existing and potential customer who are not have much time to spend on flight shopping.

# **CONTENT STRATEGY**

This mobile app will focus on purchasing flight by entering customer information. Included in the first page, the customer will enter their departure and destination, round or one-way trip, date and time of flight, and number of travelers. The second page will contain tabs to aid in the search of the flight by price, departure times, arrival times, and the number of stops.

The customer will add their personal information, such as if any assistance is required, legal name, birthday, gender, or known traveler number. The customer then will go to the forth page and enter their card information to purchase their flight.

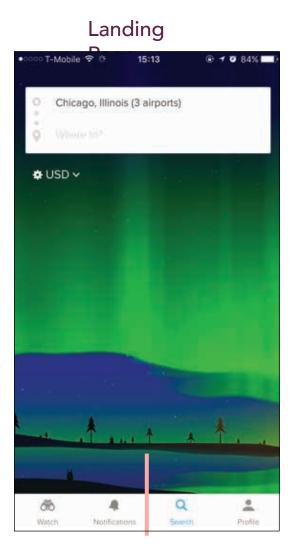
In order to enhance the Hopper app, we researched competitor apps, such as Skiplagged, Kayak, Orbit, and Skyscanner, comparing each to adapt features that would work best for the updated app. We will focus on simplifying and containing the sections of information to one page each.



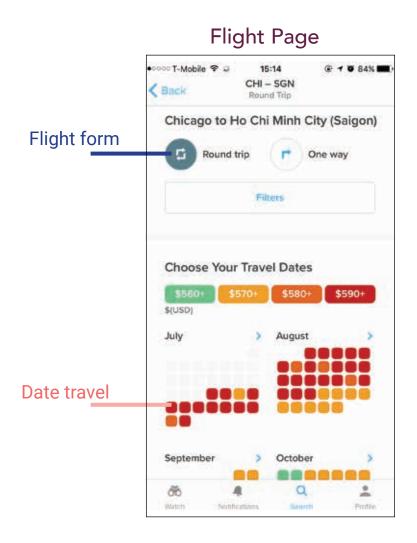
That will help the user navigate through the app without overwhelming the customer with too much information. Equally important, simplifying the information will make time spent searching for the right flight effortless and straightforward. We are eliminating the clutter of information throughout the flight and payment pages, creating the tabs on the flight page to better the search experience.

5

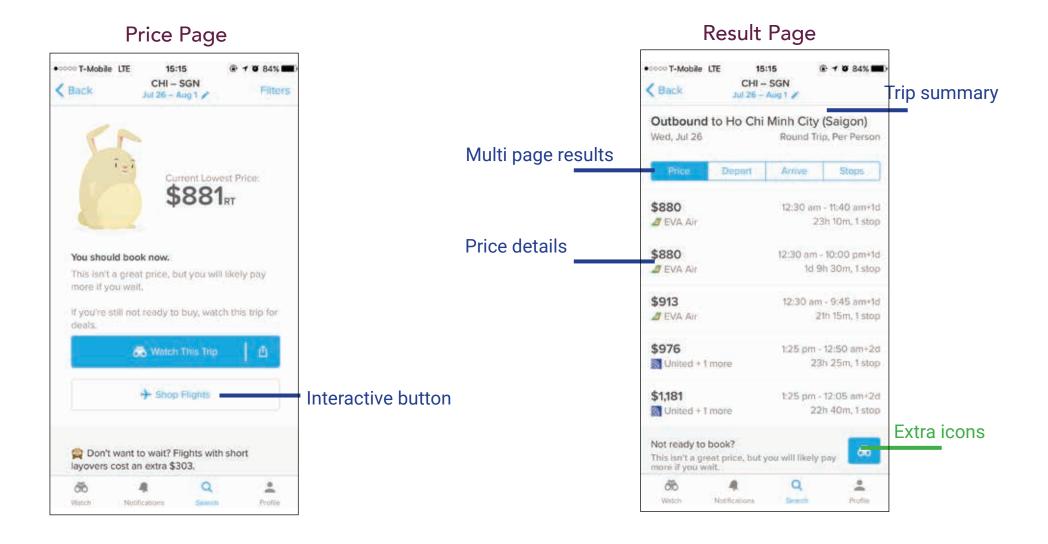
# **CONTENT STRATEGY**



First opening page



# **CONTENT STRATEGY**





# PROPOSED MOBILE APPROACH

Hopper app has plenty of potential to develop as well as improving interoperability with customers. Due to the customer feedback we collected, we realize there are many functions that need to be changed as well as a few that can be kept.

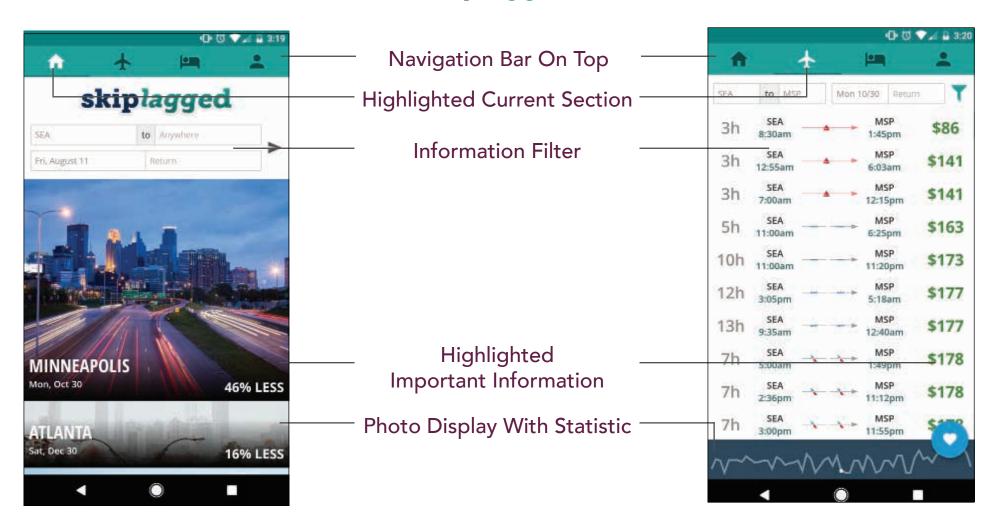
For instance, simplifying the "call to action" button and flight information would be a good idea to improve the app and removing the cluttered financial information makes the customer less confused.

We would like to simplify how new customers find information about the flights by adding different tabs, such as searching by price, departure time, destination time, and the number of stops a flight will have.

Since a successful user experience is our goal, we will focus on helping loyal customers look for flight information or review their information before obtaining the final results.

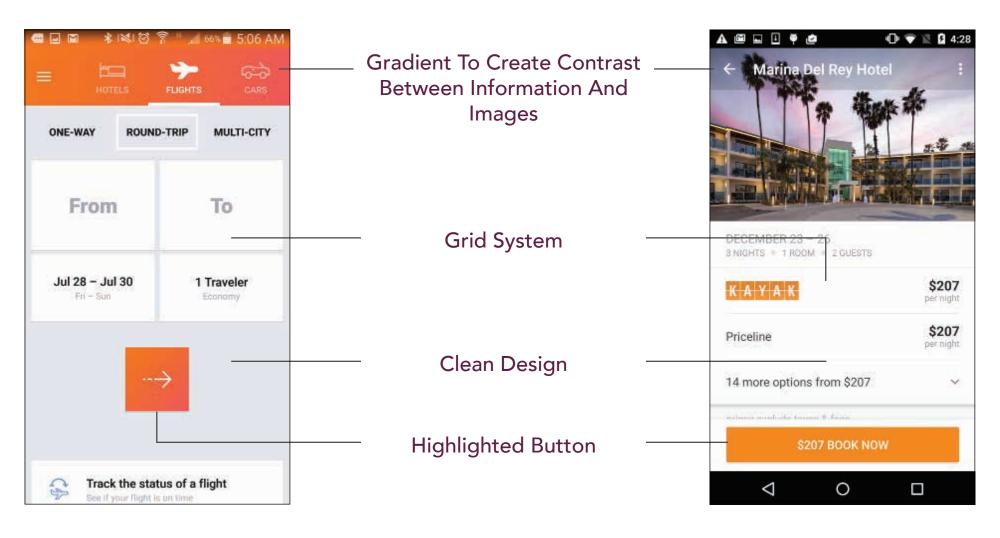


### Skiplagged

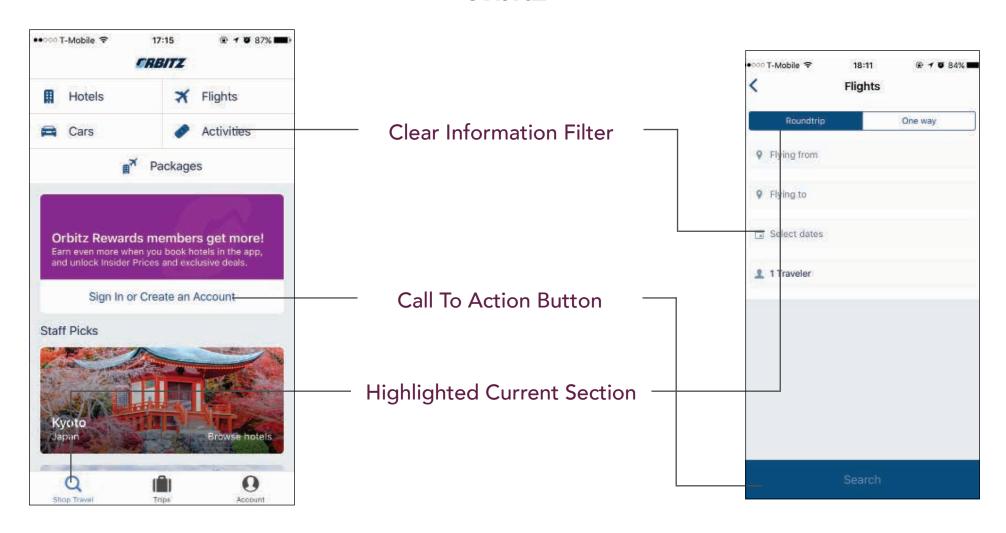


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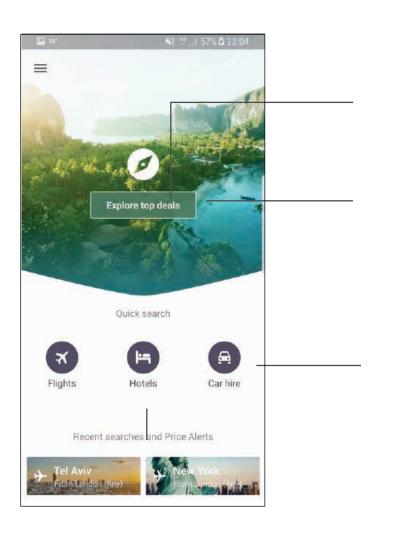
### Kayak



### **Orbitz**



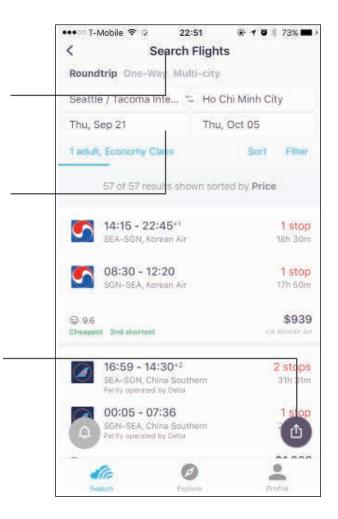
### Skyscanner



**Bold Text** 

Rectangle Box For Information Display

Big Circle Icon



#### **FEATURES TO ADOPT**

#### Icon Hierarchy

To adapt from text to icons buttons will draw the user in with a cleaner and easier the look.

#### Multiflight result

Incorporating tabs to make searching easier based on the user's need, such as by lowest price, time, and whether the flight is non-stop.

#### Review pages

To have user fully understand what they are purchasing before buying to prevent future issues.

#### Highlight color

Highlighting the color of tabs, or icon in use will make the user understand where they are in the app making usability easier

#### Call to action button

Enhance the look of the button and interface to get the user to understand what the next step is going to be.

#### • Simple navigation bar

Cleaner navigation bar for the user to be aware of where they are in the app.

#### **FEATURES TO AVOID**

#### Long description

Long descriptions in small areas cause confusion and lead to errors and frustration with the user.

#### Contrasting Background color

The background needs to compliment the icons and features we will highlight.

#### • Complex filters system

Too much information compiled into a small area without proper padding will overwhelm the user

### **PAGE HIERARCHY**

### Navigation Bar

- Watch
- Notification
- Search
- Trip

### Flight Search

- Departure
- Destination
- Flight form ( One way/ Roundtrip)
- Date
- Traveler
- Search

### Flight option

- Price
- Depart
- Arrive
- Stop
- Checked Bag

### **Existing User**

• Sign in

#### **New User**

- Add new traveler
- New User Form

### Payment

- Add / Update Card
- Card Type
- Payment Summary
- Submit Payment
- Confirmation

# HEURISTIC ASSESSMENT

### Visibility of system status

- Highlighted "call action buttons" such as shop flight.
- Clean and Simple navigation bar for each category to guide customer throughout the app

### Match between system and the real world

- On the homepage, the information provided lacks of essential information that makes hard to search for the ticket.
- The text hierarchy need to improve to create a consistency

#### User control and freedom

- Refining control buttons such as back and search ticket
- Refining flight results
- Providing sub-category for extra information

### Consistency and standards

- Design style is inconsistency
- Inconsistency buttons style
- Inconsistency statistic display
- Inconsistency color scheme between title and text

# HEURISTIC ASSESSMENT

#### **Error prevention**

- On the homepage, there is no review button
- Confirmation message pop-up before purchasing

### Recognition rather than recall

 When searching for flight, includes "trip summary" on the top for reviewing

### Flexibility and efficiency of use

- Providing features to review and edit entered information
- Add pop up window
- Minimal searching steps

### Aesthetic and minimalist design

- Linking result page
- Reduce useless data and placed them inside sub-category

# Help users recognize, diagnose and recover from errors

- Error message along with help link
- Warning color scheme if needed

### Help and documentation

- Help" link with "?" sign
- Providing contact information to search for help

# **PERSONA**



#### Mia Wilson

20, Female Student Single Portland, OR

Mia studies Asian and Middle Eastern Studies at Dartmouth College. Being a student, Mia doesn't have a big budget but is looking forward to studying abroad.

Mia is looking for the cheapest flight to her current foreign study program in Hyderabad, India. While shopping around online and the best app, she came across Hopper and found the best and cheapest deal.

#### Goals:

- Looking for the best deal for her student budget
- To gain knowledge of the world around her to grow in her Degree.

# **PERSONA**



#### Vu Pham

26, Male Software Engineer Redmond, WA In a relationship

Vu has been working in the software engineer industry for six years. As a key member of a team, Vu is responsible for attending the company conferences in various places and go on for a business trip to build a teamwork with his colleagues.

He usually looks online and buy his flight tickets through Hopper app for its affordable prices although the app somtimes is a bit complicated to navigate.

#### Goals:

- Wants to buy a ticket more efficiently
- Introducing a good flight shopping experience to his colleagues

# **PERSONA**



#### **Grant Harrison**

56, Male Life Coach, Entrepreneur Newly Divorced (Single) NewYork

He loves travels around the world as a motivational speaker. His beginning was a humbling one that taught him the importance of saving your money. In continuing to live frugal in some cases, saving a money on a plane ticket is necessary.

#### Goals:

- Looking for an app that helps find the best plane ticket deals.
- Updated in and when tickets may go on sale, as well as when they rise.

# **USER SCENARIO**



Mia is looking for a foreign study program in Hyderabad, India.



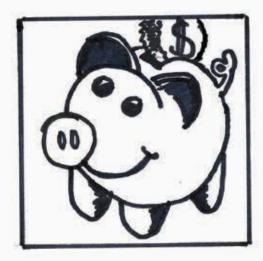
She has a pounding headache because her finances don't support her and she must spend money wisely.



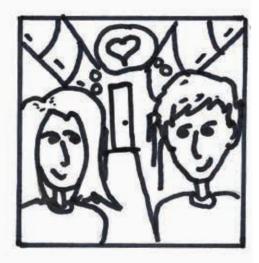
She found "Hopper" app by searching "cheap flight ticket" on google.



Hopper gives her a deal that nearly saves her \$100 compared to other flight apps.

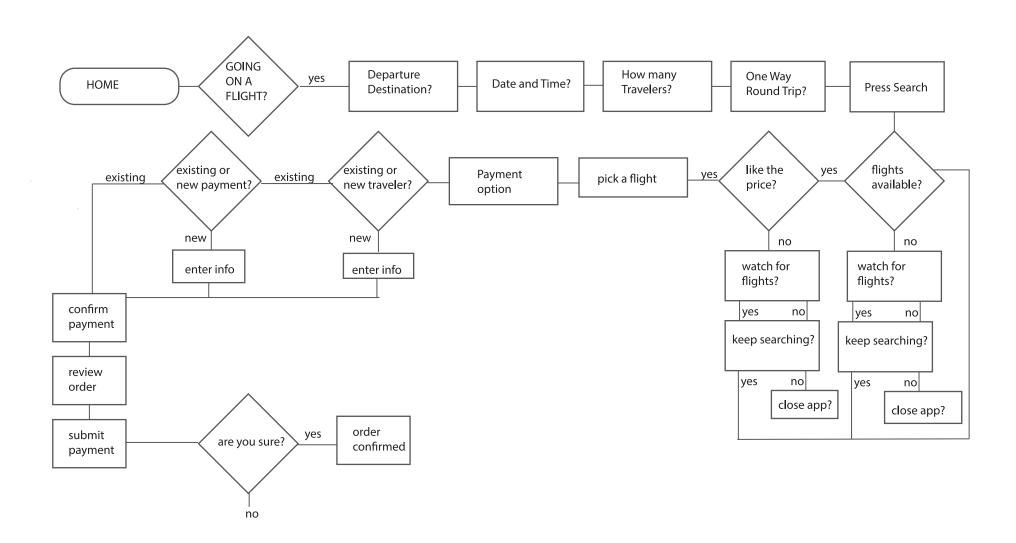


She loves it because now she has extra money to spend on other things she may want/need.



Being able to find a cheap plane ticket, she now gets to go to India and maybe even meet the love of her life.

# FLOW CHART #1

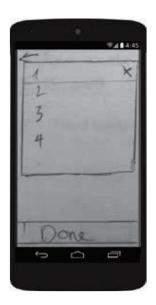


### Concept Sketches HOME PAGE









First Page (Home)

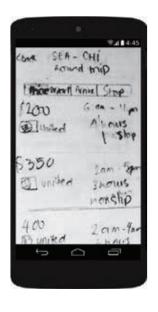
Flight searching filter

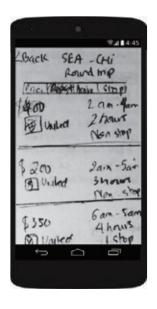
Departure and Destination page

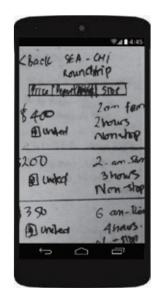
Date Option Page

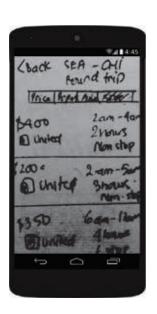
Traveler Option Page

### Concept Sketches FLIGHT PAGE









Price Category

 Price displays from Low to High **Depart Category** 

• Departure time option

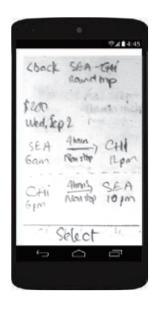
Arrive Category

• Arrive time option

Stop Category

Stops option

### Concept Sketches FLIGHT PAGE









Flight Selected Page

 Flight details ( when selected)

Trip Summary Page

- Trip summary shows outboard information
- Checked bag

Arrive Category

- Checked bag
- Add to wishlist
- Traveler

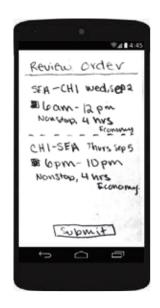
#### Stop Category

- Choose traveler
- Existing and new customer sign up
- Choose payment

### Concept Sketches PAYMENT PAGE







Payment Page

- Existing card
- Add a new card
- Submit button

#### Payment Summary

Review window

#### Review Order

- Flight information
- Payment review

### Paper Prototype Notes

### **Testing Script**

- 1. You are a new user
- 2. You are going on a study abroad trip and need to find the cheapest flight to get you to Chicago to catch another flight out of the country.
- 3. Open the Hopper app and land on the homepage.



### Paper Prototype Notes

#### Problem # 1

 When the customer landed on the FIRST LOADING PAGE, there was not enough information to have an accurate flight search.

#### Solution # 1

• The new LANDING PAGE will have date and time, number of travelers, as well as round trip and oneway trip added to the search.

#### Problem # 2

The LANDING PAGE has too many buttons to click

#### Solution # 2

 We will minimize the amount of buttons by adding a pop-up subpage that will disappear when an item is selected.

#### Problem # 3

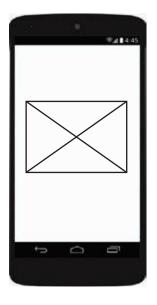
 PAYMENT PAGE doesn't have confirmation for example "did we purchase the flight?"

#### Solution #3

 Adding a review & submit order page and then a confirmation page will be added to diffuse any confusion.

### Wireframe concept HOME PAGE

The Home screens establish the guideline for the beginning of the flight searching process.







**Loading Screen** 

Landing Page

Departure Window

Wireframe concept HOME PAGE





**Date Window** 

**Traveler Window** 

### Wireframe concept FLIGHT PAGE

The Flight screens catergorize the flight searching into different tabs based on what the user is looking for, how many bags needed and who is flying.





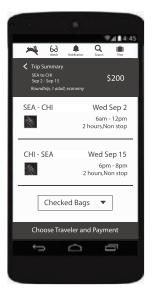




**Price Category** 

**Stop Category** Depart Category Arrive Category

### Wireframe concept FLIGHT PAGE





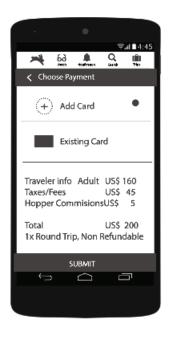


Trip Summary Checked Bag

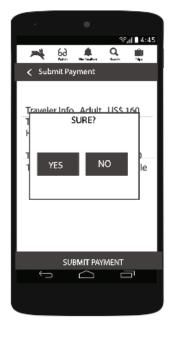
Traveler Page

### Wireframe concept PAYMENT PAGE

The Payment screens help the user finalize their transaction and purchase their ticket with an engaging confirmation page.









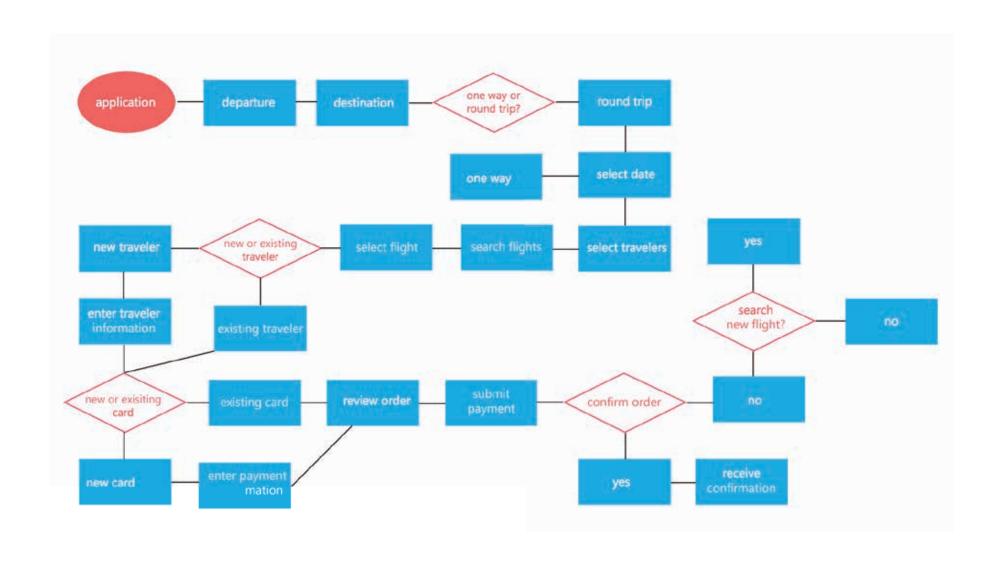
**Choose Payment** 

Review Order

Confirmation

Final window

# FLOW CHART #2



# PAPER SKETCH TO WIREFRAME

### How Skeches Helped Wireframe?

#### Sketches helped create a basic understanding of:

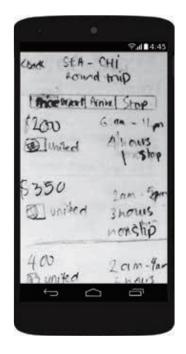
- Get a basic concept of how the app will work in user interface form
- Helped build confidence in conceptual detail and refinement
- What flight features should and should not be on the page
- Helped gather the necessary information

#### Intention and Arrival

Sketches intention was to get a basic concept of what user needed while the wireframe intention refined the concept further to get the visual about how users interact with the elements and how the flow feels.

Arrival for set of wireframes was based off user interaction which forces us to think in higher detail changed such as:

- Order of elements
- Size of elements
- Feature placement
- Time consumption





PAPER SKETCH

**WIREFRAME** 

# **USABILITY TESTING**

Usability testing refers to evaluating a new website layout by testing it with representative users to make sure that the design is for the users

#### **Participant Qualifications**

- College students
- Existing Hopper users for updating testing and new potential customers
- Shopping for flight twice a year

#### **Testing Scenario**

• The resident of Seattle looking out of state for college to Chicago University.

#### **Tasks**

- 1. You are a new customer who are searching for round trip flight from SEA to CHI from Sep 2 to Sep 15
- 2. Select the cheapest flight
- 3. Choose the flight and review your trip , then adding your card to make a payment

# **USABILITY TESTING**

#### Tasks # 1

You are a new customer who are searching for round trip flight from SEA to CHI from Sep 2 to Sep 15

#### **Testing Steps**

- Open the app and land on the landing page
- Please enter the departure and destination to Seattle and Chicago
- Select round trip option
- Pick departure date as September
   25th and 15th for returning
- Selecting one traveler
- Press search for the ticket

#### Tasks # 2

Select the cheapest flight

#### **Testing Steps**

- Looking for the cheapest ticket and search under price tab
- Choose 6am-12pm nonstop flight with
  United airline for \$ 200

Under trip summary:

- Enter number on bags checked in: None
- Click "Select traveler and payment" button

#### Tasks 3

Choose the flight and review your trip, then adding your card to make a payment

#### **Testing Steps**

- Select " Add new user" to create a new account under " Jane Cruz"
- Fill the sign up form
- Add new payment card
- Select review payment button
- Review and press submit payment button
- To finalize purchase press "yes " to confirm
- Logo and "payment confirmed" page will appear

# **USABILITY TESTING**

# We asked fours users if they are willing to test our app. Here are the results:

- Two users suggested a button that leads to the next step.
- Two users didn't understand why their information wasn't entered.
- Three users were confused on which area they had clicked on.
- Four users were confused when the app didn't go anywhere after they had received confirmation for their order.

### Changes from User Testing:

- Added a "next" button
- The filled out information's icon will change to a different color.
- Made "hit boxes" bigger for clicking.
- On confirmation page, added a "home" button to guide them back to the beginning.

# STYLING

### **ICONS**









### **COLORS**







### **BUTTONS STYLES**

**BUTTON** 

# Hot Pink Pure White Dark Gray HEX # F16662 HEX # FFFFF HEX #4F504F R: 242 R: 255 R: 80 G: 102 G: 255 G: 80 B: 98 B: 255 B: 79

# STYLING

### **TYPOGRAPHY**

### **Title**

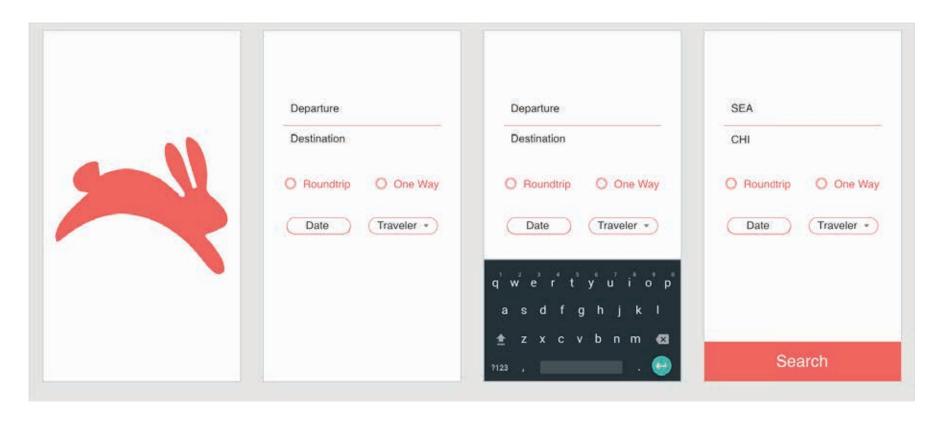
- 28pt
- Segoe UI / Regular

### **Body text**

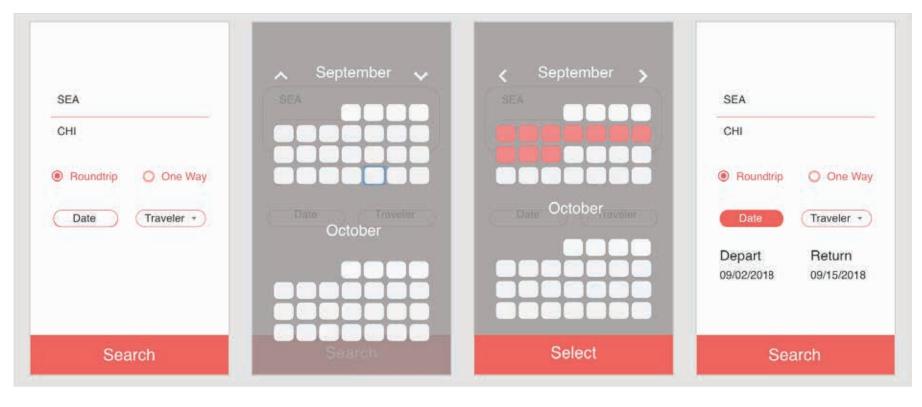
- 20pt
- Segoe UI / Regular

### **Caption**

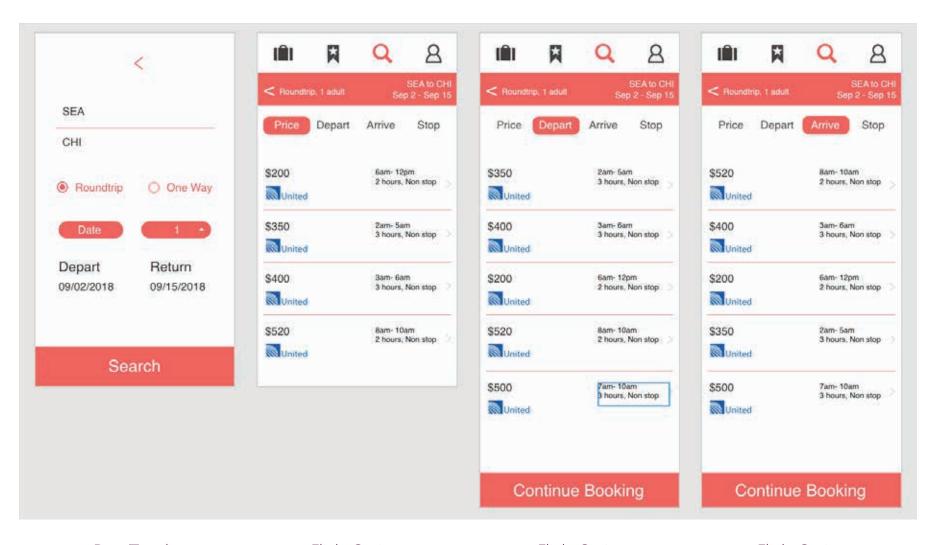
- 20pt
- Segoe UI / Regular



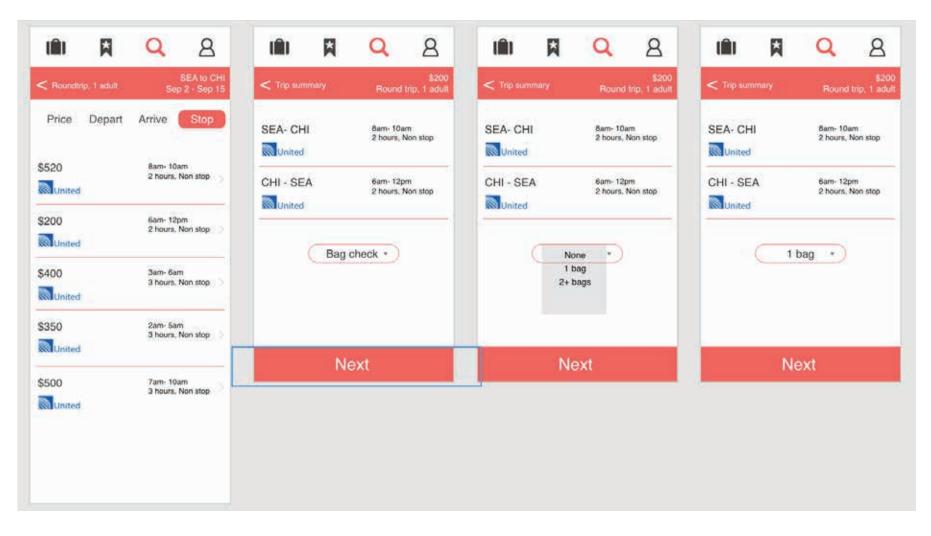
Landing Page Search Fight Search Fight Search Fight



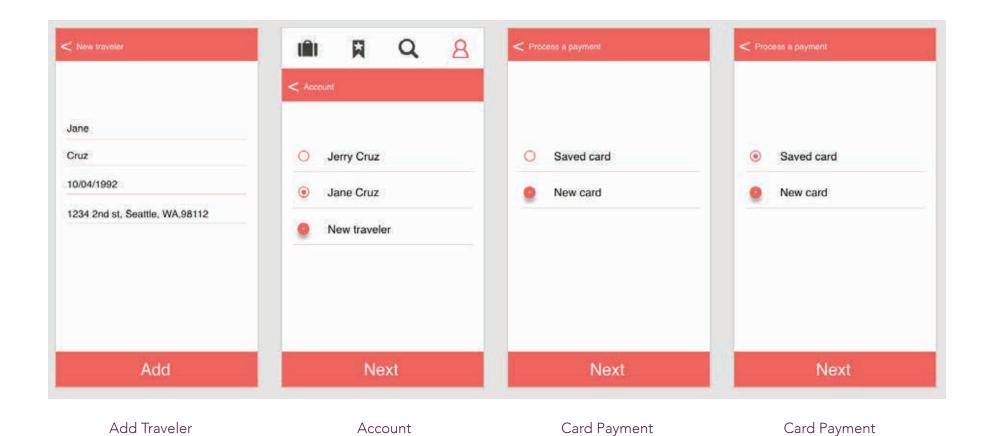
Search Flight Choose Date Choose Date Choose Date

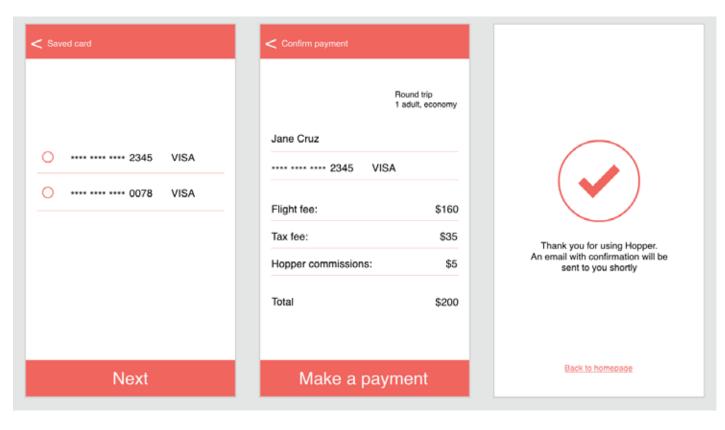


Date/Traveler Flight Option Flight Option Flight Option



Date/Traveler Trip summary Trip summary Trip summary





Card Payment Payment Confirmation

# IMPORTANCE OF PROCESS

#### **Client Research**

Understanding clients help us go through each design step effectively.

#### **Content Strategy**

That will help us decide which to include and exclude from our mobile experience.

#### **Competitive Analysis**

Explore the design pattern and interaction features to meet user needs

#### **User Scanerio and Path**

Think about the user to create a design path

#### **Paper Protyping**

Get a basic concept of how the app will work in user interface form before working on the wireframe.

#### Wireframe

Low fidelity wireframe help us build the basic layout for the Hopper app

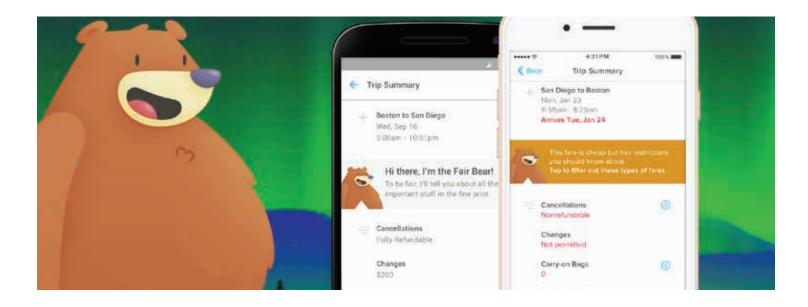
#### **Usability Testing**

Identify the problems and solutions for the current design and collecting feedbacks from the users for the final design.

#### **Hi Fidelity Design**

The visual designs bring to the users the hi fidelity the version that improves the user experience.

# **PROTOTYPE**



https://xd.adobe.com/view/79d72545-f3d5-4ff1-5501-5adf82c4332c-0fe6/