

Destination Dashboard

A streamlined travel experience



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Elevator pitch

Concept

Destination Dashboard is for people looking to explore new and unique places as well as enjoy local cuisine at any given city with the option to find foods based on dietary needs.



Who is the user?

As a frequent traveler, I want to input my destination upon arrival and be presented with basic background information, popular attractions and restaurants in the area so that I can enjoy my stay as soon as I land.

Why?

Identified issues

- Often forget to pack the right things to enjoy the trip
 - Unfamiliar with food and restaurants in new cities
 - Significant time spent planning a trip
-

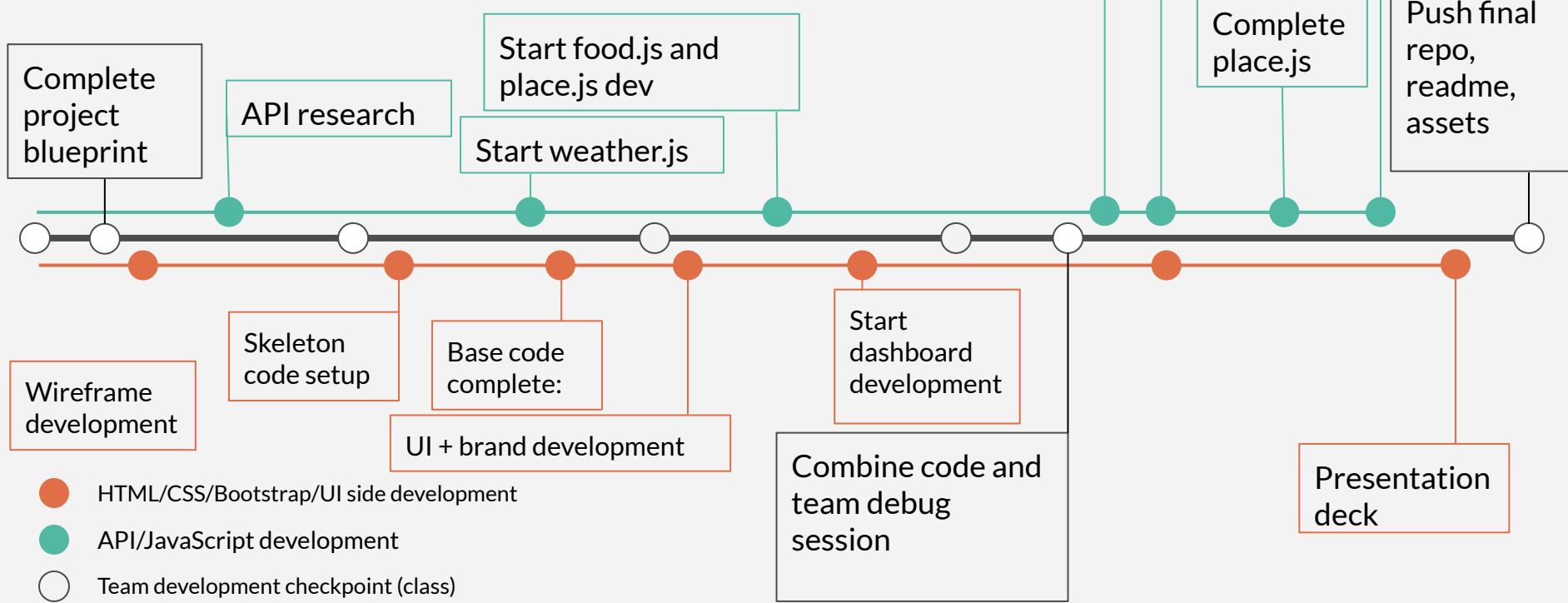
Demo

[DEMO !](#)

How it all came together

-

Timeline Overview



Transform issues into features

1. Dashboard:

Providing an overview of searched city

2. Somewhere to Go:

Supporting user with ideas of places to visit

3. Something to Eat:

Inspire users with local food selections

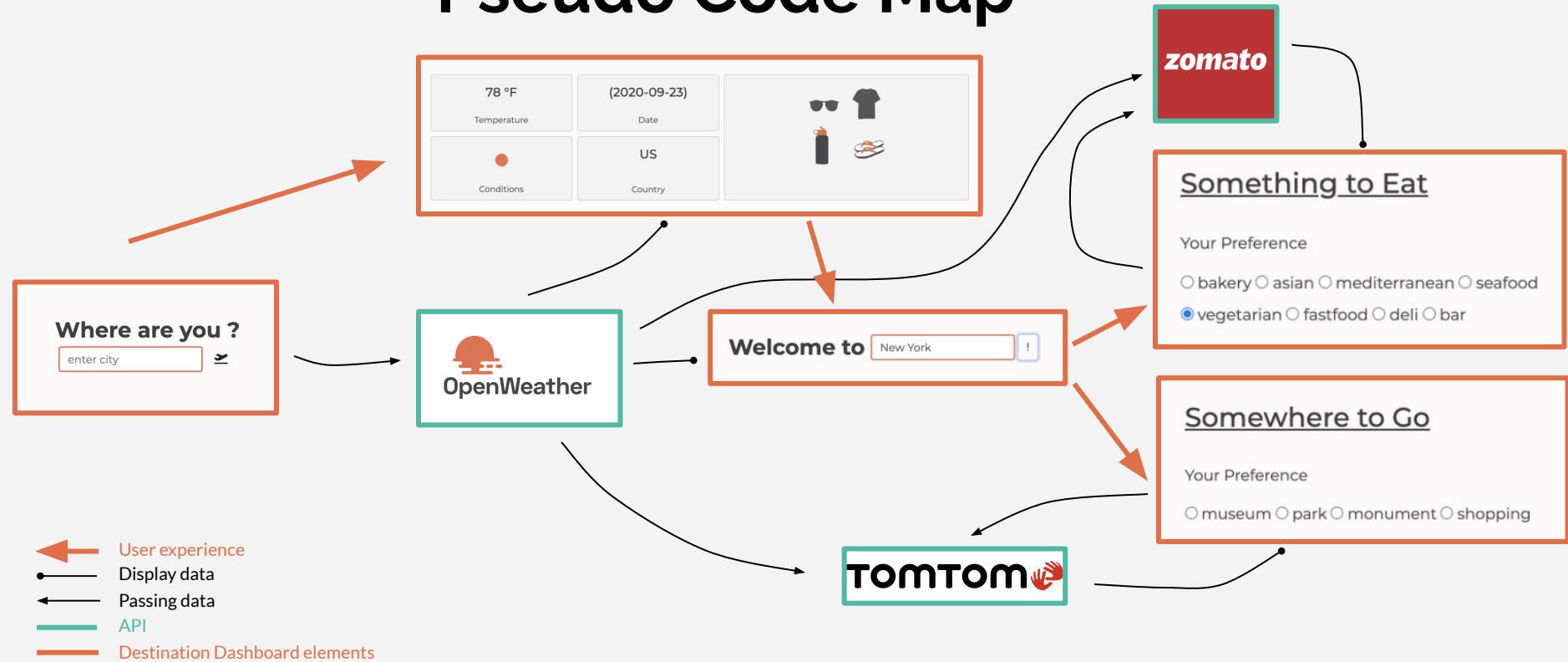
API Research and implementation



Information used

- | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• Weather• Temperature• Longitude• Latitude• .png icon | <ul style="list-style-type: none">• Restaurants• Images• Rating• Address | <ul style="list-style-type: none">• Points of interest• Images• Address• Rating• Country |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

Pseudo Code Map



Wireframe development

This row of wireframes illustrates the initial phase of wireframe development, starting from a completely blank state and progressing through detailed components to a simplified, user-centered design.

This row shows the progression of wireframe development, moving from detailed component-based designs to a simplified user interface focused on the search function, and finally arriving at the search results page.

Brand and Asset Development

Icon from OpenWeather API:

Day icon	Night icon	Description
01d.png	01n.png	clear sky
02d.png	02n.png	few clouds
03d.png	03n.png	scattered clouds
04d.png	04n.png	broken clouds
09d.png	09n.png	shower rain
10d.png	10n.png	rain
11d.png	11n.png	thunderstorm
13d.png	13n.png	snow
50d.png	50n.png	mist

Icons further developed for project:



Group ID 235: Rain



Group ID 600: Snow



Group ID 700: Atmosphere



Group ID 800 : Clear



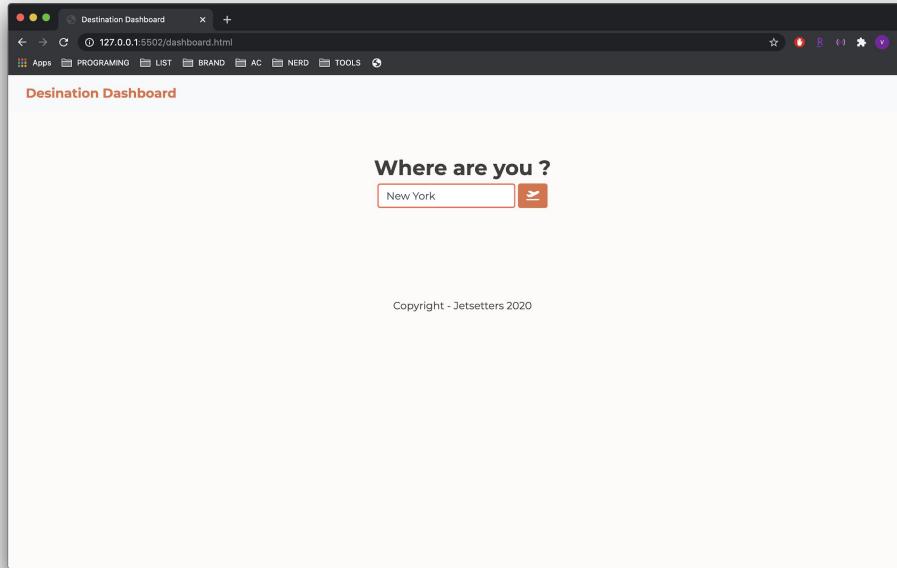
Group ID: Else



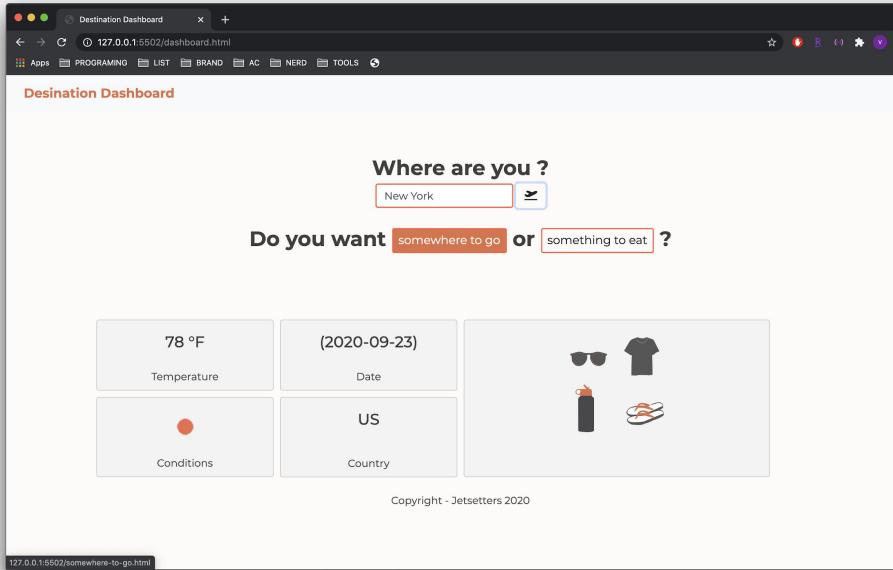
Selfie coming soon...

Placeholder

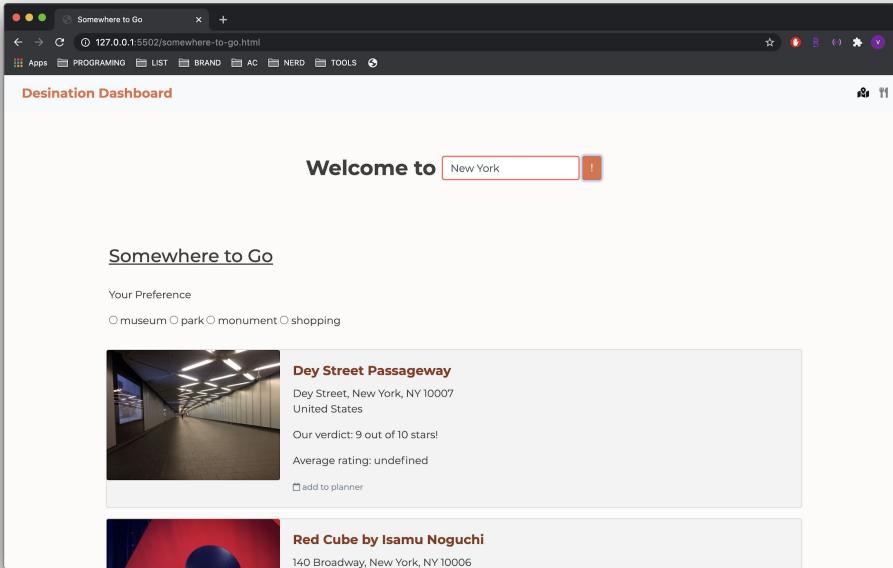
Home



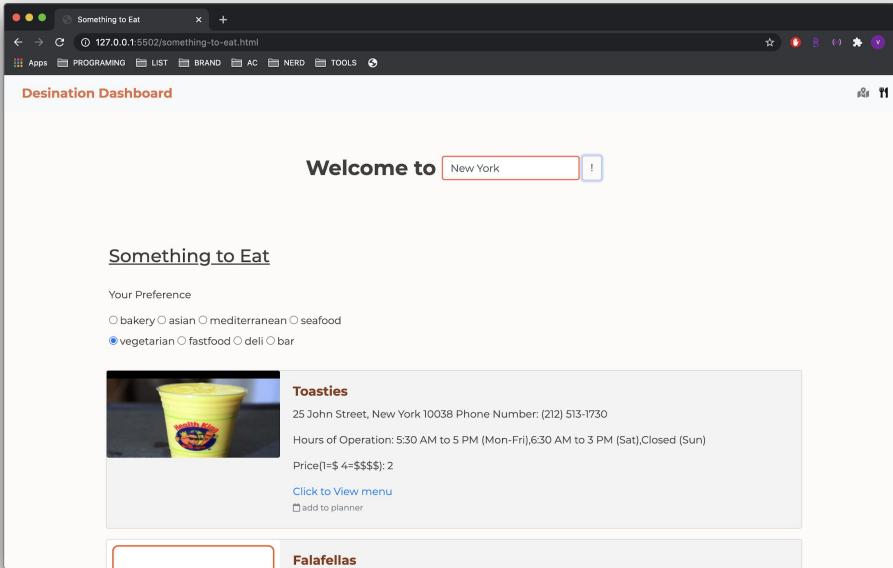
Dashboard



Somewhere to Go



Something to Eat



Challenges

Fetch data from multiple APIs with 1 button

```
var searchBtn = $('#searchCityBtn')
var departBtn = $('#departBtn');
function weatherSearch(city) {
  var APIkey = "af6923e95cbb6c53be8ceb";
  var queryURL = "https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={APIkey}";

  $.ajax({
    url: queryURL,
    method: "GET"
  }).then(function (response) {
    var lat = response.coord.lat;
    var lon = response.coord.lon;
    // console.log(lat);
    // console.log(lon);
    // return lat, lon;
    refineSearch(lat, lon);
    // tom1(lat, lon);

  });
  console.log("weather received");
}

$(searchBtn).on('click', function () {
  event.preventDefault();
  var city = $('#cityInput').val();
  console.log("i was click")
  console.log(city);
  weatherSearch(city);

});
```

```
// Show TomTom Tourist Attractions
function tom1 (lat, lon) {
  var queryURL = "https://api.tomtom.com/search/2/search/important%20tourist%20attractions?lat=" + lat + "&lon=" + lon + "&key=AIzaSyCwDyfXzJLjGKQHgkVWZBxOOGdPmIwUoI";
  $.ajax({
    url: queryURL,
    method: "GET"
  }).then(function(response) {
    //make an array of POIs which possess "dataSources" = images
    for (var i = 0; i < response.results.length; i++) {

      if (response.results[i].dataSources !== undefined) {

        poiId.push(response.results[i].dataSources.poiDetails[0].id);

        placeName.push(response.results[i].poi.name);
        address.push(response.results[i].address.freeformAddress);
        country.push(response.results[i].address.country);
        rank.push(response.results[i].score.toFixed(0));

      }
    }
    tom2(poiId);
  });
}
```

- Functions stop each other from running
- Define new variables from a response to feed into other API calls while also appending targeted results onto the page.

Appending graphics on dashboard

```
var group235 = "./assets/img_dash_group235.png"
var group6 = "./assets/img_dash_group6.png"
var group7 = "./assets/img_dash_group7.png"
var group8 = "./assets/img_dash_group8.png"
var groupElse = "./assets/img_dash_group_else.png"

var ide = response.weather[0].id;
console.log(response.weather[0].id)
console.log(ide);

// dashboard container
var toBringContainer = $("#to-bring-container")

// if for ID 200-300-500s
if (parseInt(ide) < 600) {
  toBringContainer.attr("src", group235)
  console.log("rain");
}

// if for ID 600s
else if (parseInt(ide) > 599 && parseInt(ide) < 624) {
  toBringContainer.attr("src", group6)
  console.log("group 6 snow");
}

// if for ID 700s
else if (parseInt(ide) > 700 && parseInt(ide) < 800) {
  toBringContainer.attr("src", group7)
  console.log("group 7 atmosphere");
}

// if for ID 800s
else if (parseInt(ide) === 800) {
  toBringContainer.attr("src", group8)
  console.log("group 8 clear");
}

// if for ID anything else just in case
else {
  toBringContainer.attr("src", groupElse)
  console.log("other")
};
```

- Using response call data to trigger custom corresponding graphics
- For zomato API , the challenge of giving img src attributes a .png image

Team developing environment

Resolution:

- Multiple parallel .js files being developed simultaneously
 - Communicating code written across the team to keep everyone on the same page
- 1. Developing with flexibility and compatibility in mind
 - 2. Introduce placeholders and comments
 - 3. Comment out entire documents during team debugging sessions to isolate problems
 - 4. Working in local branches and updating project board.

What's Next?

Code Optimization

```
//image placement
var restaurantImg = response.restaurants[0].restaurant.featured_image
console.log(restaurantImg);
var imgContainer = $("#imgOne");
imgContainer.attr('src', (restaurantImg))
//name placement
var restaurantName = response.restaurants[0].restaurant.name
console.log(restaurantName);
$("#food-title1").html(restaurantName);
//location placement
var restaurantAddress = response.restaurants[0].restaurant.location.address
var phoneNumber = response.restaurants[0].restaurant.phone_numbers
console.log(restaurantAddress)
$("#text1").html(restaurantAddress + " " + "Phone Number: " +phoneNumber);
//time placement
var restaurantTime = response.restaurants[0].restaurant.timings
console.log(restaurantTime);
$("#times1").html("Hours of Operation: " + restaurantTime)
//price placememnt
var restaurantPrice = response.restaurants[0].restaurant.price_range
console.log(restaurantPrice)
$("#price1").html("Price(1=$ 4=$$$$):" + " " +restaurantPrice);
//menu placement
var restaurantMenu = response.restaurants[0].restaurant.menu_url
```

As developers we are always looking to redesign our code for the most efficient runtime. We try to use least amount of computer memory as possible and increase the runtime. For our projects future development we look to optimize our code especially since we dealt with multiple APIs and the transfer of data from one API to the next.

Future Feature Ideas



Itinerary planner: bookmark places into a trip scheduler

Map + location tracking: insert screenshot of branded map

Social platform: build a community by sharing travel tips and ideas

Pick me up: a transportation extension that will provide assistance to get from point A to point B



Thank you !

Links

- Deployed :

[click to visit functioning app :\)](#)

- GitHub repo:

[click to visit repo :\)](#)
