



# Group 9 - Click & Go

Team Members:

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Dec. 05, 2022

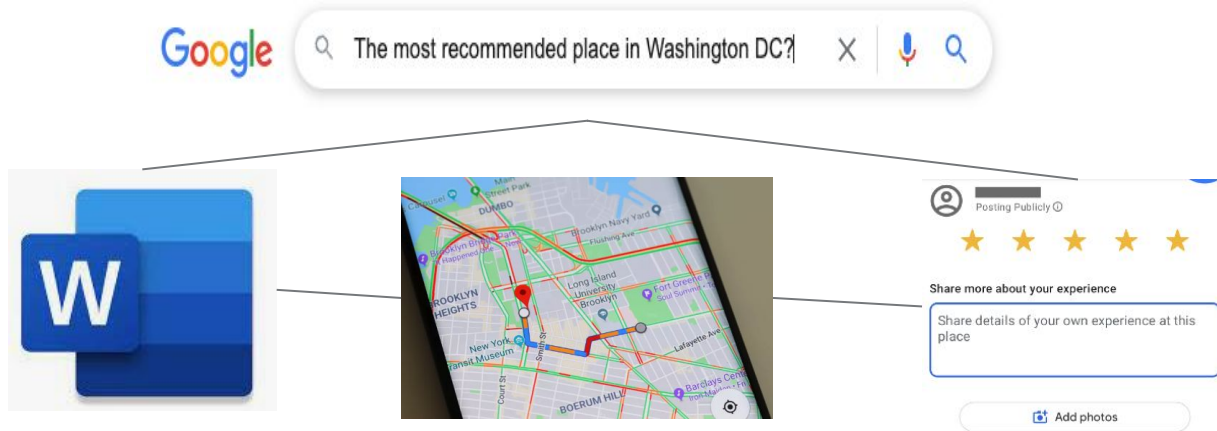


1.

## About the Project

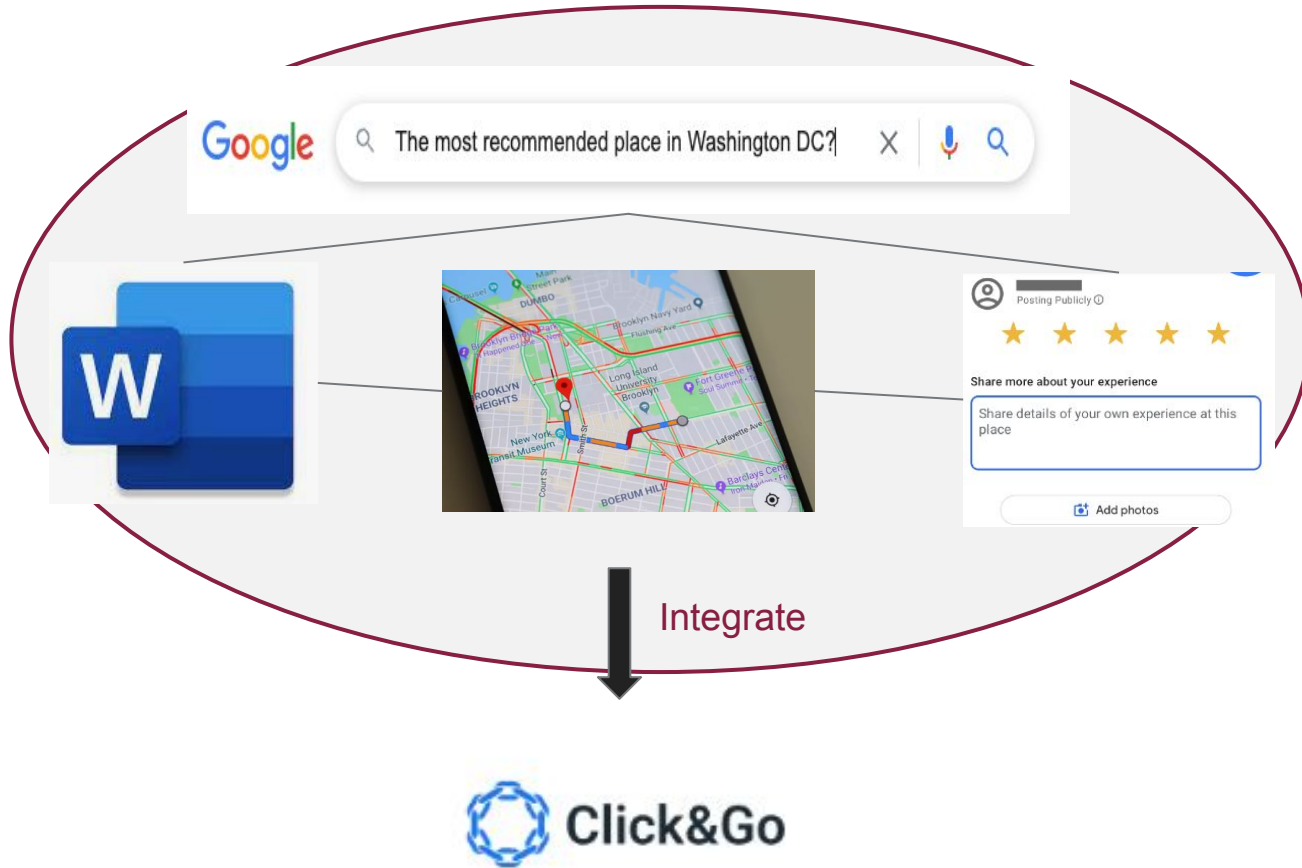


# Problem Statement ( Why this topic? )



- Lots of research work have to do before making a good travel plan
- Need to cross many platforms
- Have to check out your plan all the time while traveling

# Project Goal- Click & Go



2.

## About building the system



# IDEs and Tools

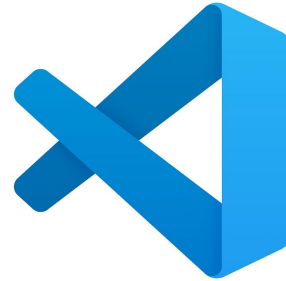
## 1. Communications



Google Docs



## 2. Developments



# Technical Details / Design Choices

## 1. Technical Details - Get travel spots

Click & Go

Explore new places

Search

### Travel Plan

HOME

Home

Add your note...

When to start your plan?

12/4/2022 12:08 PM

### Restaurants, Hotels & Attractions around you

Type

Restaurants Rating

#### Nostos

★★★★★ out of 430 reviews

Price \$\$\$\$

Ranking #1 of 65 Restaurants in Tysons Corner

Mediterranean Greek Vegetarian Friendly Vegan Options

Gluten Free Options

#100 Boone Blvd entrance on the side of the building on Aline, Tysons Corner, VA, 22182-2665

+1 703-760-0690

TRIP ADVISOR WEBSITE

ADD

### Map

Tower Club Tysons Corner

Pimmit Hills

DLNEY PARK

Bing & Bao

1n Loring

Idylwood

Map

PlanList

PlaceList

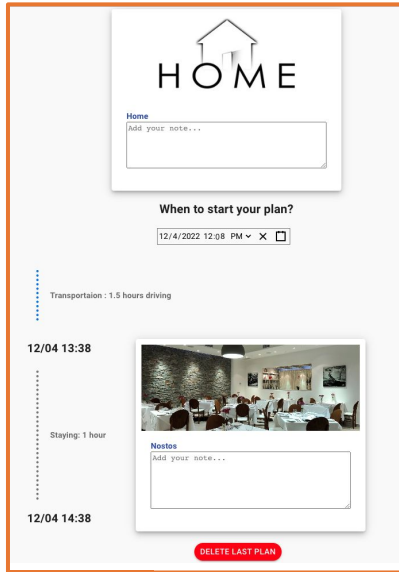
Map

1. Search the place and get the coordinates
2. Trigger the Map to zoom in by the coordinates and set the bounds
3. Use the bounds to call the travel advisor api to get the places

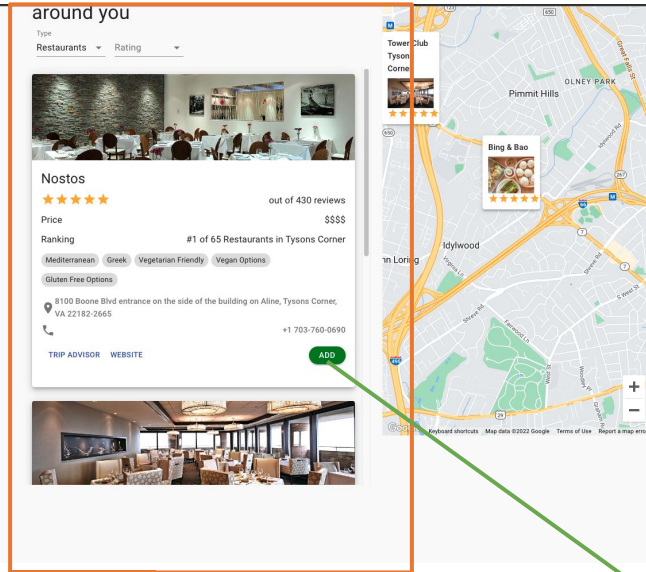
useEffect >> bounds >> Travel Advisor API

# Technical Details / Design Choices

## 1. Technical Details - Add travel spots



PlanList



PlaceList

Update arrays of staying and transportation time

Use arrays of Latitude and Longitude to call Google Distance Matrix API & staying Time

1. Click the add button
2. Call the google maps distance API and the staying time API
3. Use the transportation time and staying time to calculate the added spot's start and end time

# Technical Details / Design Choices

## 1. Design Choices

- Program Language: React
- Transportation time:
  - **Google Maps Distance Matrix API**
  - Bing Distance Matrix
- Recommend Places:
  - Travel Advisor API in RapidAPI



# Encountered Difficulties

1. Limited Quota for the third party APIs
2. Limitation of the staying time API

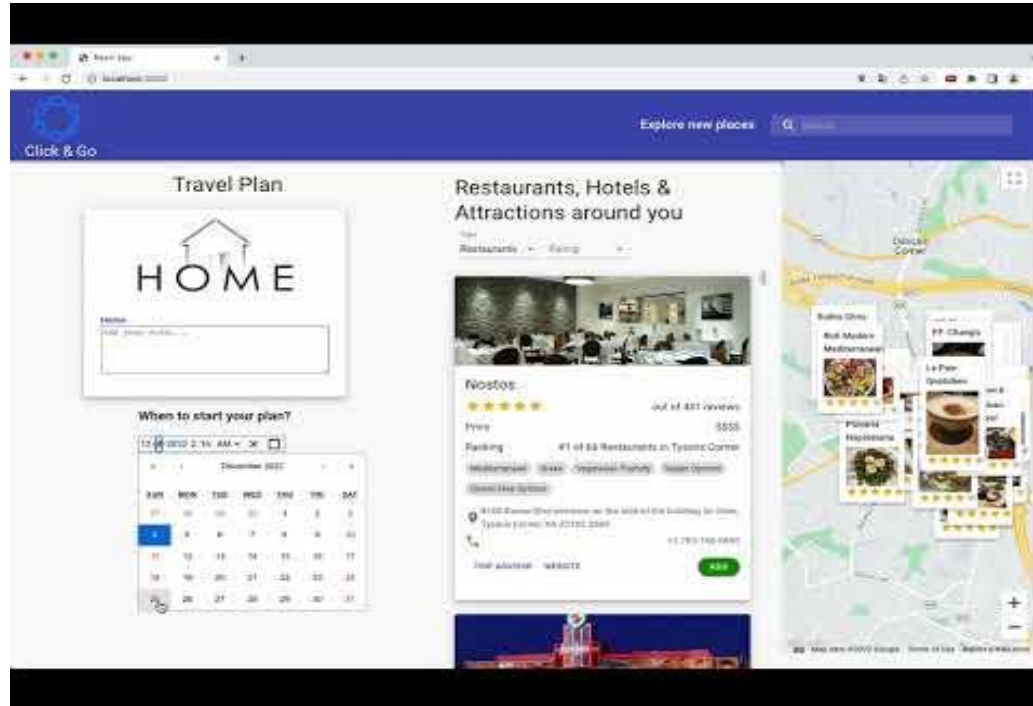
3.

## Demonstration



# Demonstration

Demo video:



[https://youtu.be/CG88dcVf\\_Vk](https://youtu.be/CG88dcVf_Vk)

4.

## Lessons learned and reflection

# Lesson Learn

1. Using open source API
2. Merge requests should be carefully reviewed

# Future work

## 1. User login and store the travel plan

1. User is able to login
2. Get the history plan data

The screenshot shows a web application interface for travel planning. At the top, there is a blue navigation bar with a 'Click & Go' logo on the left, a 'User login' button in the center, and a search bar on the right. Below the navigation bar, the main content area is divided into three sections. On the left, there is a 'Travel Plan' section with a 'HOME' icon and a text input field for notes. In the middle, there is a 'Restaurants, Hotels & Attractions around you' section, which displays a list of results for 'Nostos' restaurant, including its rating, price, ranking, and location. On the right, there is a map showing the location of the restaurant and surrounding areas.

Click & Go

User login

Explore new places

Search...

### Travel Plan

HOME

Home

Add your note...

When to start your plan?

12/4/2022 12:08 PM X

### Restaurants, Hotels & Attractions around you

Type: Restaurants Rating

**Nostos**

★★★★★ out of 430 reviews

Price: \$\$\$\$

Ranking: #1 of 65 Restaurants in Tysons Corner

Mediterranean Greek Vegetarian Friendly Vegan Options

Gluten Free Options

8100 Boone Blvd entrance on the side of the building on Aline, Tysons Corner, VA 22182-2665

+1 703-760-0690

TRIP ADVISOR WEBSITE ADD

Tower Club Tysons Corner

Bing & Bao

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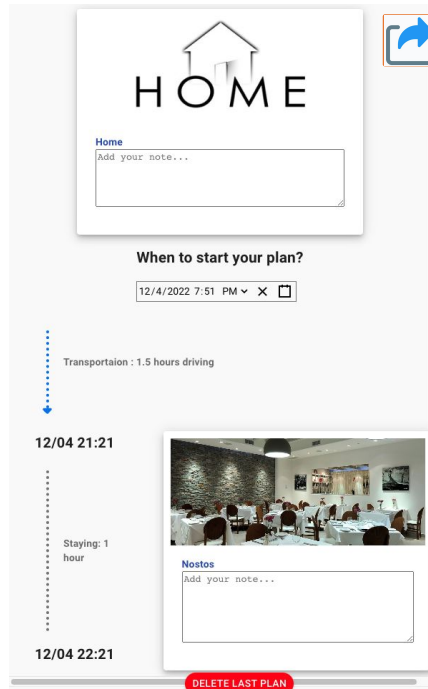
OLNEY PARK

Pimmit Hills

Google Keyboard shortcuts Map data ©2022 Google Terms of Use Report a map error

# Future work

## 2. Share the travel plan



1. User can click the share button to share the plan
2. Multiple people can simultaneously modify the same travel plan.

# Future work

## 3. Select the transportation method

12/04 21:21

Staying: 1 hour

**Nostos**  
Add your note...

12/04 22:21

Transportation : 1.5 hours driving

12/04 23:51

Staying: 1 hour

**Bing & Bao**  
Add your note...

12/05 00:51

DELETE LAST PLAN

1. User can select the transportation Method such bus, bicycle, or walk

# Future work

## 4. Recommend places based on the search history

The screenshot displays a travel planning application interface. At the top, there is a blue header with a logo and the text "Click & Go" on the left, and "Explore new places" with a search bar on the right. The main content area is divided into several sections:

- Travel Plan:** A section with a "HOME" icon and a text input field labeled "Add your note...". Below it, a "When to start your plan?" section shows a date and time: "12/4/2022 12:08 PM" with expand/collapse icons.
- Recommended Places:** A prominent orange button with the text "Recommended Places".
- Restaurants, Hotels & Attractions around you:** A section with a dropdown menu set to "Restaurants" and a "Rating" dropdown. It features a card for "Nostos" restaurant, which includes a photo of the interior, a 5-star rating (4.5 stars), "out of 430 reviews", a price range of "\$\$\$\$" (indicated by 4 dollar signs), and a ranking of "#1 of 65 Restaurants in Tysons Corner". It also lists dietary options: "Mediterranean", "Greek", "Vegetarian Friendly", and "Vegan Options", along with a "Gluten Free Options" tag. The address is "8100 Boone Blvd entrance on the side of the building on Aline, Tysons Corner, VA 22182-2665" and the phone number is "+1 703-760-0690". There are links for "TRIP ADVISOR" and "WEBSITE", and an "ADD" button.
- Map:** A map view on the right side showing the location of "Nostos" and other nearby points of interest like "Tower Club Tysons Corner" and "Bing & Bao".

Q & A



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