Preliminary Report for Geographically

UNSW Sydney 2019T1 SENG2021 - TeamA

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Project Information:

Project synopsis:

Geographically is a term long project which focuses upon the use of APIs, libraries, teamwork and full stack engineering. Utilising a MEAN stack to implement many product features such as trip planning, Spotify integration & generation, blog posting, exploration and discovery or new points of interest.

Team members:

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Mentor:

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Information links:

WebCMS for SENG2021 T1
GitHub for TeamA
Deliverable 1 (initial report)
Team Google Drive Link

Software stack:

The MEAN software stack focuses primarily on an innovative set of libraries built upon Javascript. Such a stack allows easy integration from frontend to backend. The MEAN stack notably has great documentation, support and community to further assist whilst programming in this environment.

The MEAN web development stack: GitHub Repo, Website

MongoDB for database

Express.js for backend web dev (linking Node.js to front end)

Angular.js for frontend framework/implementation

Node.js for backend

Project ideas:

Key

[1] - Primary feature

- [2] Secondary feature (will be implemented)
- [3] Tertiary feature (some of these will be implemented)
- [4] Unlikely to be implemented

- History of a location [1]
 - Show only tourist attractions on a map [1]
 - Click on a location to view its detailed history [1]
 - Rate the correctness of the information [4]
- Trip planner [1]
 - Recommend road trip playlist [2]
 - Recommend shorter road route [4]
 - Search nearby restaurants [2]
 - Weather check API [2]
 - Crowdedness/popularity check of a specific location at current time [3]
 - Nearby hotels, possibility of campsites [2]
 - Recommend other nearby attractions [2]
- User account [1]
 - Create, log in and out [1]
 - Save trip [1]
 - Rate and review trip [2]
 - Share trip via blog [1]
 - o Share trip over social media, such as Facebook, Instagram [4]
 - Friend other accounts [3]

Problem Statement

- Rarely, there is a online resource that allows users to easily and quickly learn about the history of a location, only websites that require one to sift through lengthy paragraphs of text.
- 2) Tourist locations such as hotels and famous attractions cannot be filtered when searching for location on map applications.
- 3) Maps do not tell users information such as the weather on a chosen location in real time.
- 4) There is no application that combines a map application with a blog that allows people to share their trips and experiences.

5) There is no trip planning application that combines a specialised music system according to your mood.

User Stories

Feature: View history and information of a location

As a user

So that I can learn more about a tourist location I want to visit

I want to check the history of the location

Scenario: View history and information of a location

Given I am on 'Map Mode' **When** I click on the location

Then I can view the history of the location

Feature: Plan a trip

As a user

So that I can pay a visit to a location

I want to find a route to get to the location

Scenario: Plan a trip by searching location in the search bar

Given I have chosen a particular location on the 'Plan' page

When I have type in the chosen locations I want to go to

Then I am given the shortest route to get to the location on a map

Scenario: Plan a trip by being given a recommendation

Given I have chosen a particular location on the 'Plan' page

When I have clicked on 'Add a stop' then click on a location recommended

Then I am given the shortest route to get to the location on a map

Feature: Get recommended tourist attractions

As a user

So that I can easily pick a tourist attraction I would like to go to

I want to be able to find tourist attractions I can go to

Scenario: Receive recommendations via 'Add a stop'

Given I am currently on the 'Plan Page'

When I click 'Add a stop'

Then I am able to see tourist attractions and their ratings

Scenario: Receive recommendations on 'Home'

Given I click on the Geographically logo where 'Home' is labelled

When I am on the 'home' page

Then I am able to see recommendation of tourist attractions under the 'Discover' section or the 'Plan a trip' section along with how it would take to get to that location from home

Scenario: Receive recommendations under 'Go on a road trip'

Given I have not picked a location yet on the 'Plan' page

When I look under the 'Go on a road trip' section

Then I am able to see a recommendation for a tourist attraction and a description about it from Wikipedia.

Feature: Check weather of chosen location

As a user

So that I can decide when to go to a certain location I want to check the weather of a location on various days

Scenario: Check weather of chosen location

Given I am on 'Map Mode'

When I have clicked a location then clicked on the weather **Then** I can view the weather for the location at any time

Feature: Find nearby restaurants

As a user

So that I can find something to eat nearby the chosen attraction

I want to be able to find nearby restaurants

Scenario: Find nearby restaurants

Given that I am on the 'Plan' page

When I click 'Add stops'

Then I click on 'Advanced Search'

And I click on 'Restaurants'

Then I can see the top-rated and nearby restaurants to the attraction

Feature: Find nearby hotels/campsites

As a user

So that I can have somewhere to sleep if I take a trip over multiple days

I want to be able to find nearby hotels and campsites

Scenario: Find nearby hotels/campsites

Given I am currently on the 'Plan Page'

When I click 'Add stops'

Then I click 'Advanced Search'

And I click on 'Accommodation'

Then I am able to see nearby hotels and campsites and their ratings

Feature: Save a trip

As a user

So that I can possibly revisit the details of the trip plan

I want to be able to save the details of a trip I have planned

Scenario: Save a trip

Given that I am on the 'Plan' page

When I click on save trip

Then I am able to to save various details of a trip I have taken, including the route, location weather

and playlist

Feature: View a saved trip plan

As a user

So that I can read my trip plan and/or make changes to the plan if needed

I want to be able to view the details of a trip I have planned

Scenario: View a saved trip plan

Given that I am on the 'My Profile' page

When I click on the 'view trip details' button

Then I am able to see the various details of a trip I have taken, including the route, location weather and playlist on the 'Plan' page

Feature: Review and share a trip (Make a blog post)

As a user

So that I can let other users know whether or not the trip was enjoyable

I want to be able to share the details of my trip with other users

Scenario: Make a quick blog post

Given I am on my profile page

When I click on 'Share your trip'

Then I am able to write up a blog post about my saved trip

When I have finished writing my review and click 'Share trip', I can share the post with other users on my blog

Scenario: Make a long blog post

Given I am on my 'Your Blog'

When I have written a blog post under 'Make a new post'

And I click 'save'

Then I can share the post with other users on my blog

Feature: Delete a blog post

As a user

So that the blog post is no longer shared with other users online

I want to be able to delete a blog post

Scenario: Delete a blog post from the profile page

Given I am on my profile page **When** I click on trash can icon

Then I can delete a chosen blog post

Scenario: Delete a blog post from the 'Your Blog' page

Given I am on my 'Your Blog'
When I click on the trash can icon
Then I can delete the chosen blog post

Feature: Edit a blog post

As a user

So that I can make amendments to what the blog post will share with other users online

I want to be able to edit a blog post

Scenario: Edit a blog post from the 'Your Blog' page

Given I am on my 'Your Blog'
When I click on the pencil icon
Then I can edit the chosen blog post

Feature: View my blog post

As a user

So that I can read what I published on my blog post.

I want to be able to view my blog post

Scenario: View a blog post from the 'Your Blog' page

Given I am on my 'Your Blog' page

When I click on the 'view blog post' button of a particular blog post I have published

Then I can view the chosen blog post

Scenario: View a blog post from the 'My Profile' page

Given I am on my 'My Profile' page

When I click on the 'view blog post' button of a particular blog post I have published

Then I can view the chosen blog post

Feature: Rate a location

As a user

So that I can let other users know the quality of those attractions/restaurants I want to be able to rate the attractions and restaurants from on my travel plan

Scenario: Rate a location Given I am on my profile page When I click on 'Share your trip'

Then I am able to add a 5 star rating to the chosen location

Feature: Check the popularity/crowdedness of an attraction (in real time)

As a user

So that I can plan my trips at more optimal times

I want to be able to check the popularity/crowdedness of an attraction at my current time

Scenario: Check the popularity/crowdedness of an attraction

Given I am currently on 'Map Mode'

When I click on a location

Then I am able to view the trends of a place's popularity in real time.

Feature: Automatically generate road-trip playlist

As a user

So that I can get in the mood to enjoy the location by listening to the playlist I want to be able to generate a recommended playlist based on the attraction

Scenario: Make a playlist Given I am the 'Plan' page

When I click under 'My Trip Playlist' where the music icon is found Then I am linked to a page where I can link a playlist for that trip When I click on "Generate a Geographically planned playlist" Then I should see a playlist generated automatically for my trip

Feature: Remove a road-trip playlist from my trip plan

As a user

So that I don't listen to a playlist of music while on my trip **I want to** be able to remove a playlist from my trip plan

Scenario: Remove a playlist

Given I am the 'Plan' page

When I click under 'My Trip Playlist' where the music icon is found **Then** I am linked to a page where I can remove a playlist for that trip

When I click on the 'Remove playlist' button **Then** the playlist is removed from my trip plan

Feature: Login

As a user

So that I can access the features of the website, such as my saved trips and trip playlist I want to be able to login to my account

Scenario: Login via the 'Sign up/Login' Link

Given I am on the Home Page

When I click on 'Sign up / Login' at the header

Then I click on the 'Login' hyperlink from the 'Sign up' pop up

And I filled in my login details in the give white spaces (email and password) and I click on 'Login'

Then I am able to login to my account and access the features of the website

Scenario: Login via the 'Try Geographically today' button

Given I am on the Home Page

When I click on 'Try Geographically today' button

Then I click on the 'Login' hyperlink from the 'Sign up' pop up

And I filled in my login details in the give white spaces (email and password) and I click on 'Login'

Then I am able to login to my account and access the features of the website

Feature: Log out

As a user

So that I can leave my website

I want to be able to log out of my account

Scenario: Log out

Given I am logged in on any page (except for the Home Page where the 'Try Geographically today' button is found)

When I click the door icon where 'logout' is read on my toolbar

Then I am able to log out of my account

Feature: Sign up

As a user

So that I can login and access the features of the website, such as my saved trips and trip playlist I want to be able to sign up for a new account

Scenario: Sign up via the 'Sign up/Login' Link

Given I am on the Home Page

When I click on 'Sign up / Login' at the header

Then I fill in my detail in the given white spaces

And I click the 'Sign up' button

Then I am able to create an account and be read as logged in such that I am able to access features of the website

Feature: Change personal details in 'My Profile' page

As a user

So that I can change my author name for my blog and/or home location which is used when I plan for my trips

I want to be able to change my name and/or home location

Scenario: Change personal details in 'My Profile' page

Given I am on 'My Profile' Page

When I click on the pencil icon near the heading 'My Profile'

Then I edit my name and/or my location in the given white spaces

And I click the save button

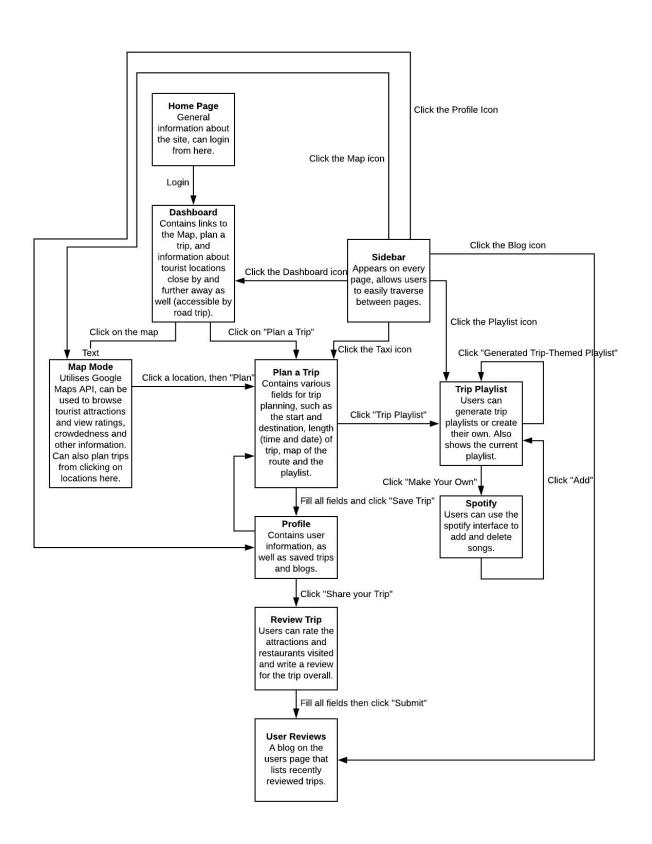
Then I have changed my personal details on my account

Low Fidelity Prototypes

Storyboard interaction graph

The storyboard interaction sketches were a great first step to lay down the foundation of the UI of the site, providing a succinct description of each page and its functions, as well as how each page connects to each other. The storyboard sketches were the first to be discussed in group meetings, with each member providing their own input and ideas in order to create the final graph.

The final storyboard interaction graph was then devised on paper and edited by all members before being finalised on Lucidchart.



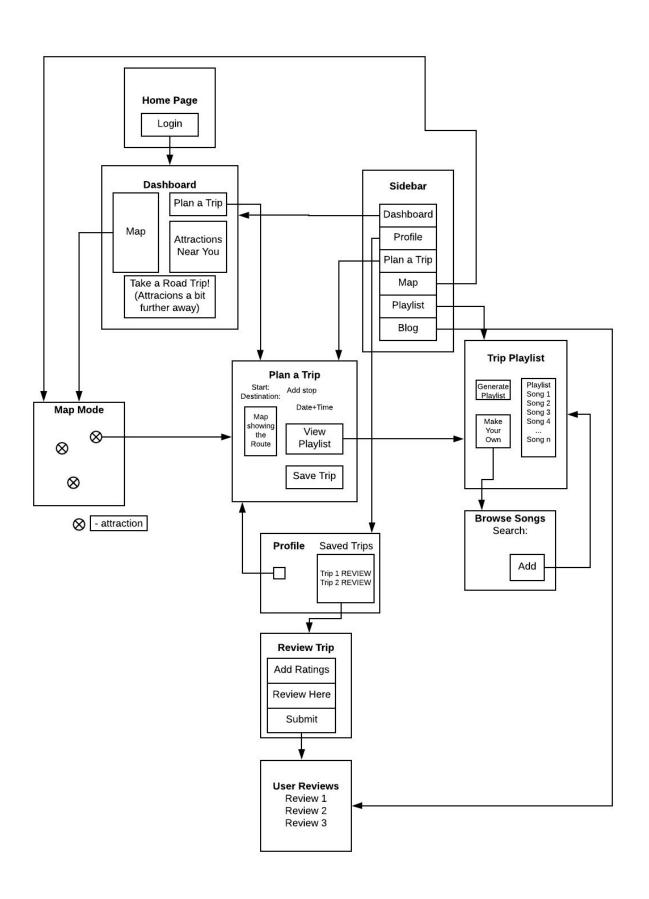
UI Component Sketches

The UI component sketches were a great way to understand each other's thoughts and opinions on the UI design. We all had several sketches we drew in group meetings and collaborated, then after agreeing on a rough design it was prototyped.

Prototyping or UI was done in Lucid Charts whilst discussion & collaboration was happening in order to help everyone understand each other's points. It was then rendered more realisitcally in Figma to show the UI style. Feel free to check this out <u>directly through Figma</u>

Note: The UI Component Sketches & Combined (Storyboard interaction + UI Component Sketches) are combines into one Figma document.

Note: Due to limitations with the PDF format & report, some text is incredibly small. Please feel free to inspect <u>directly through Figma</u>

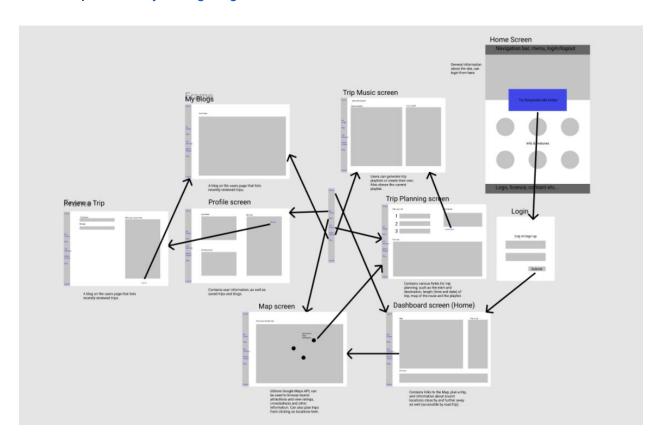


Storyboard interactions + UI Component Sketches

The storyboard interactions + UI component sketches further aided in the development of this system. As we step higher up in fidelity and abstraction we have refined our thoughts, aim and design for this project. Feel free to check this out <u>directly through Figma</u>

Note: The UI Component Sketches & Combined (Storyboard interaction + UI Component Sketches) are combines into one Figma document.

Note: Due to limitations with the PDF format & report, some text is incredibly small. Please feel free to inspect <u>directly through Figma</u>.

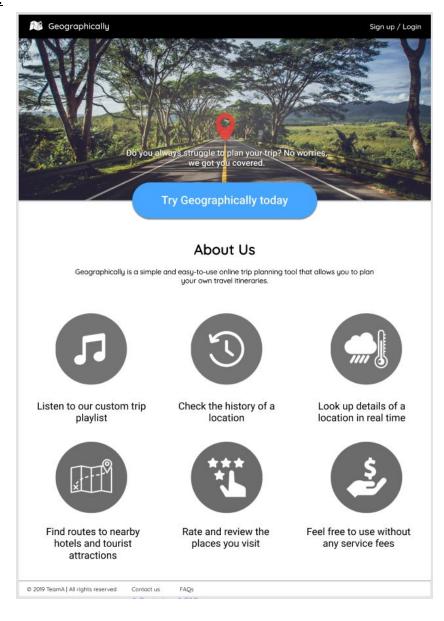


High Fidelity Prototypes

The high fidelity mockup of Geographically was done through Figma, an online UI builder that has many high quality features. Some features of Figma allow the use of links and buttons within a presentation mode, which has been implemented to further aid in the user experience and design of the application.

While we do have screenshots posted below which will cover most of the prototype, please feel free to assess and inspect through this link: Figma High Fidelity Prototype

Home Page:



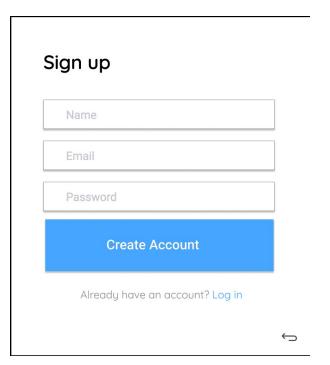
Login

Email

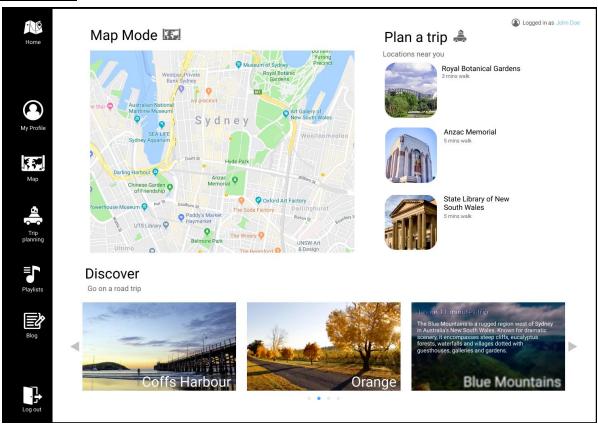
Password

Login

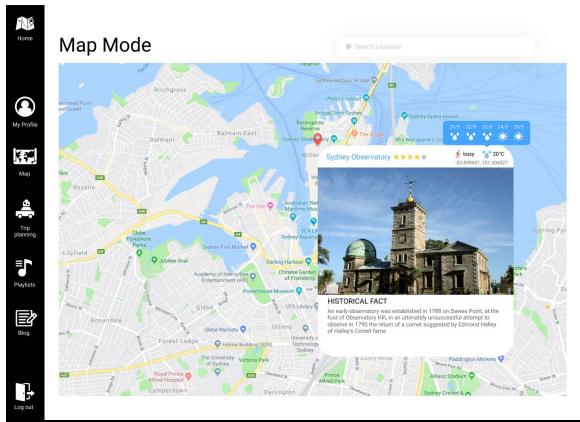
No account? Create an account



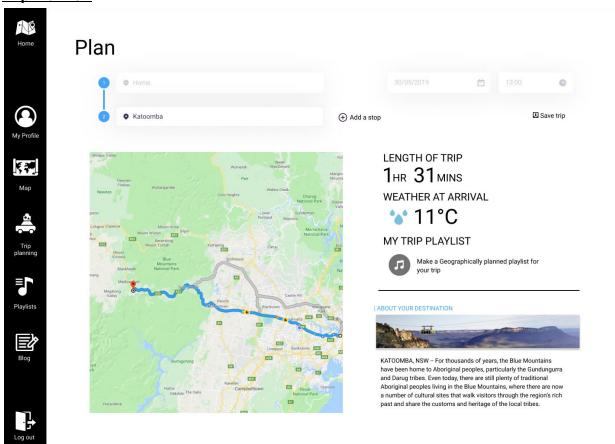
Dashboard:

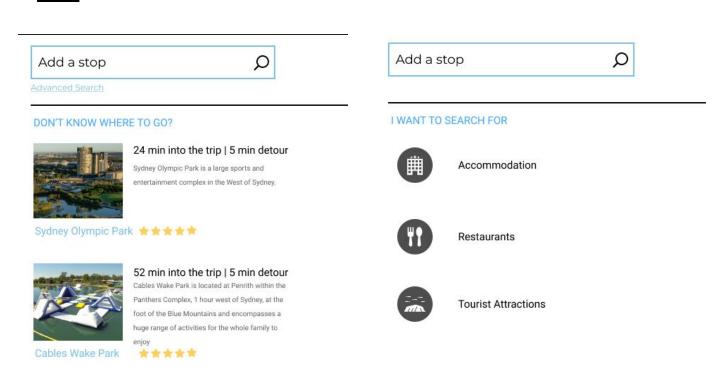


Map Mode:

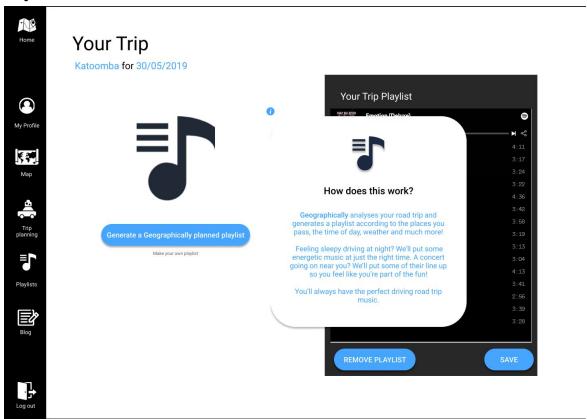


Trip Planner:

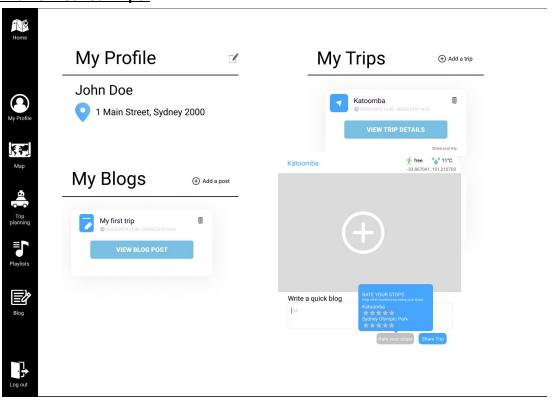




Playlist Generator:



Profile + Saved Trips:



Blog Posts:

