

Software Engineering Group Project

COMP2002 / G52GRP: Final Report

Project information:

Project title: Novel Ways of Using NCC Open Data Resources

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Documentation (links):

Trello board:

- Main Report: <https://trello.com/b/OKBlcCsr/main-report>
- Software Manual: <https://trello.com/b/sqU74ek5/software-manual>
- User Manual: <https://trello.com/b/vqpLg9nZ/user-manual>

Code repository: https://projects.cs.nott.ac.uk/comp2002/2022-2023/team16_project

Document repository: https://projects.cs.nott.ac.uk/comp2002/2022-2023/team16_project/-/tree/main/Documentation

NCC Open Data: <https://www.opendatanottingham.org.uk/>

User Manual

Purpose	4
Audience	4
Scope.....	4
Guide on Main functions	4
Getting Started	4
Normal Mode.....	5
Map	5
Transport Links	8
Light Bulb	9
Favourite	9
Directions.....	10
Places to eat.....	11
Quizzes.....	13
Games	14
Memory Match	14
Update Mode	15
Kids Mode	16
Map	16
Favourite	16
Quizzes.....	17
Games	18
Memory Match	18
Word Search	20
Troubleshooting.....	20
FAQ.....	20
Further help.....	21
Useful links	21

Purpose

This manual is designed to provide instructions, guidance, and information on using our mobile travel app. “Adventurer’s Guide to Nottingham” features a range of travel information, including transportation links, places to eat, and much more. Our app is the perfect travel resource for anyone looking to see Nottingham because it also includes historical and cultural details of the city’s sites. By giving you all the information you need to use our app successfully and efficiently, our user manual aims to help you get the most out of it.

Audience

Adventurer's Guide to Nottingham is an app suitable for all ages. Users can select from two modes when signing up: a normal mode which is catered to more mature audiences, and a kids mode for children under the age of 12.

Additionally, Adventurer's Guide to Nottingham provides information and functionality for both locals and those new to the city.

Scope

The application incorporates various navigation tools, including map and direction pages, to help users find their way around the city. It also allows users to save their favourite landmarks for quick access. Additionally, the app offers a list of restaurants in the city for dining options, and quizzes in normal and kids modes for educational content. The map is also a source of historical information about landmarks. To add to the entertainment factor, the app provides word search and memory match games.

Guide on Main functions

Getting Started

If you already have an account then log in using your email and password.

If you do not have an account then navigate to the sign up screen using the "Create an account" link. From there, enter your preferred email and password along with a mode for the app:

Normal Mode:

Normal mode provides more information about landmarks, more functionality (i.e. transport links, restaurants page, etc.) and more complex quizzes & games.

Normal mode includes:

- Map page - landmark information, transport links, directions
- Restaurants page - find places to eat in Nottingham
- Quizzes page - categories include "Landmarks", "Historical Facts", "Religious Spaces"

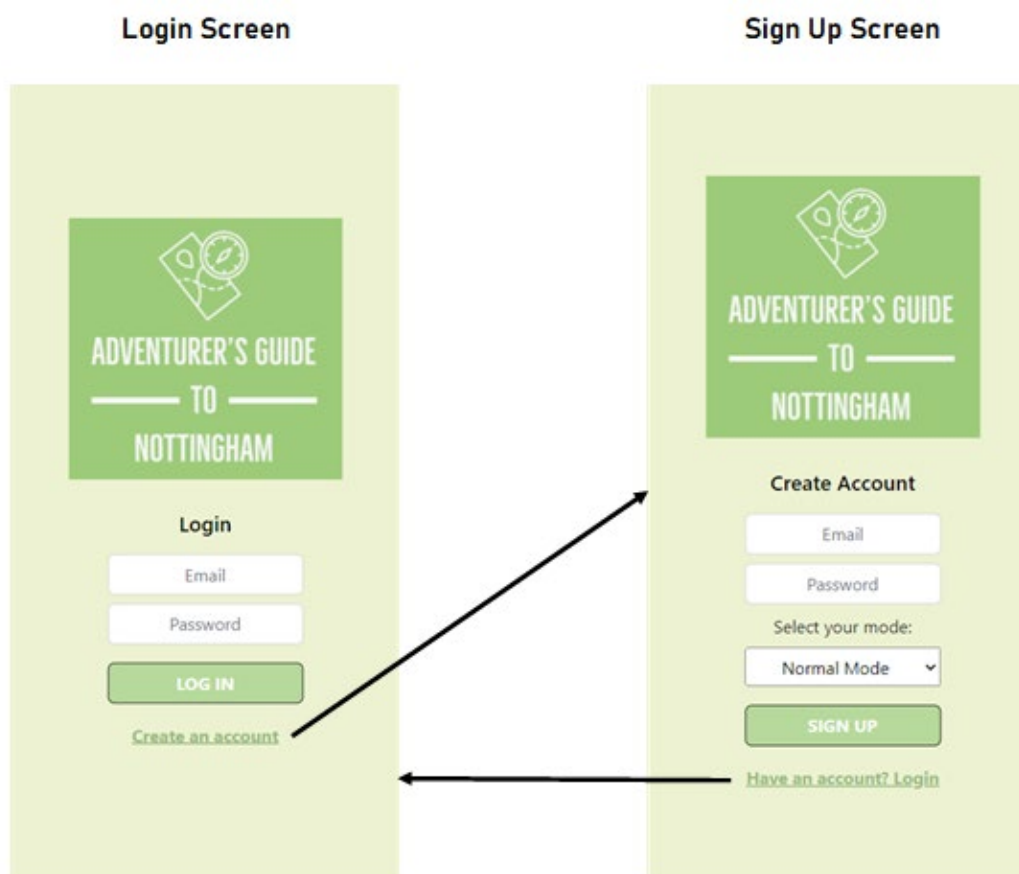
- Games page - word search, memory match

Kids Mode:

Kids mode provides a simpler version of the app compared to normal mode, with a child-friendly appearance and more basic functionality (i.e. fewer map features and easier quizzes & games).

Kids mode includes:

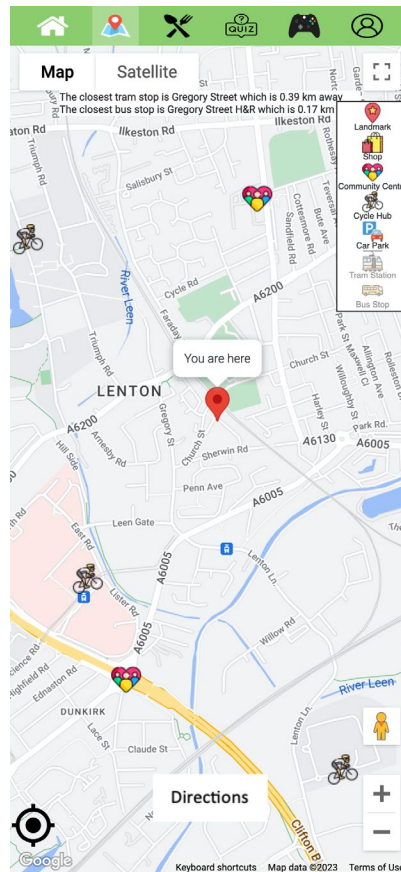
- Map page - landmark information
- Quizzes page - categories include "Landmarks", "Historical Facts", "Religious Spaces"
- Games page - word search, memory match



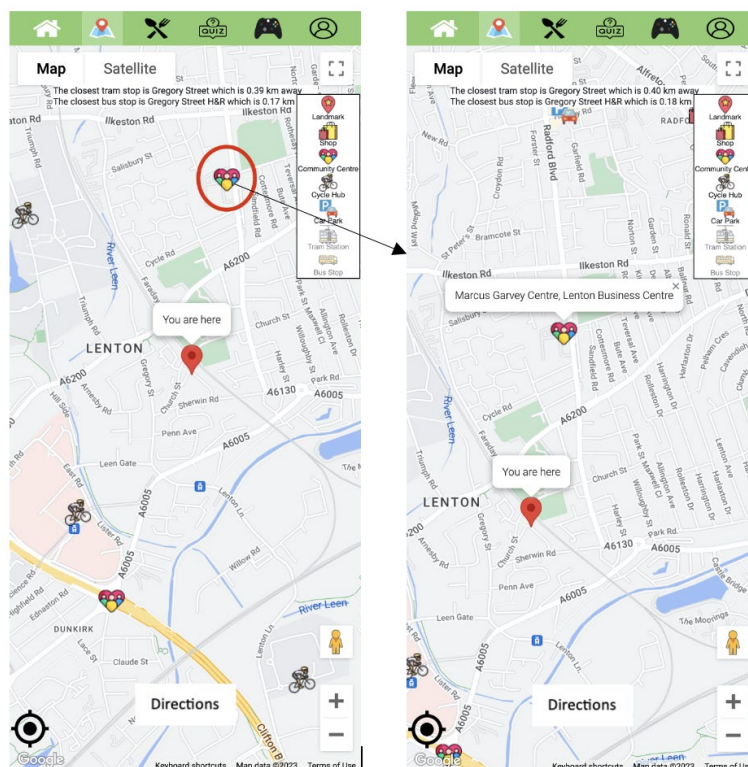
Normal Mode

Map

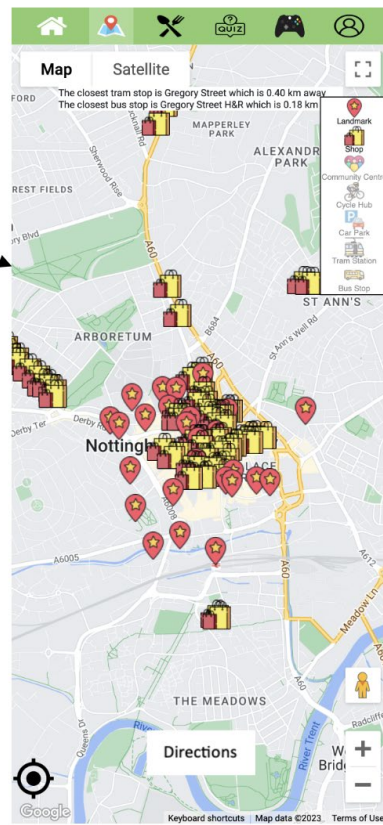
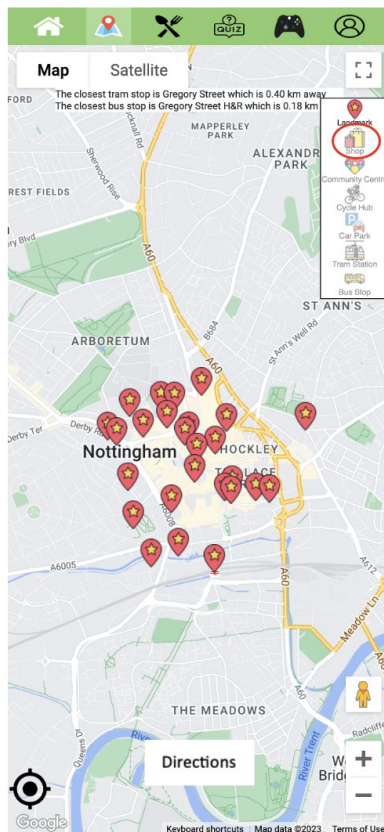
Upon opening the map screen, the user is presented with a screen as shown below.



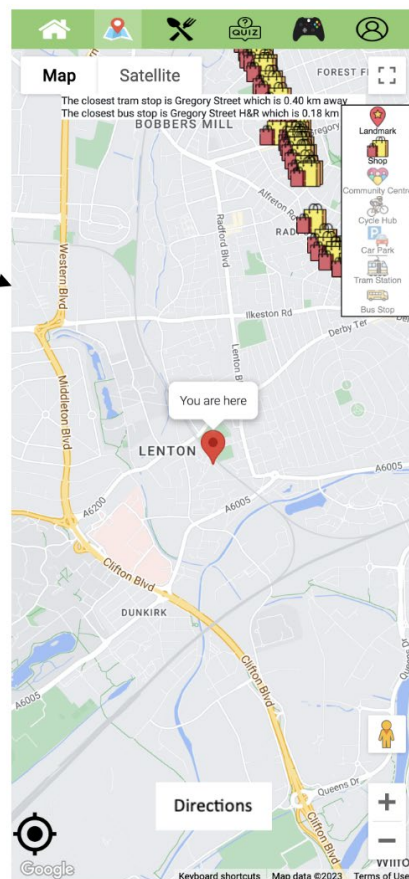
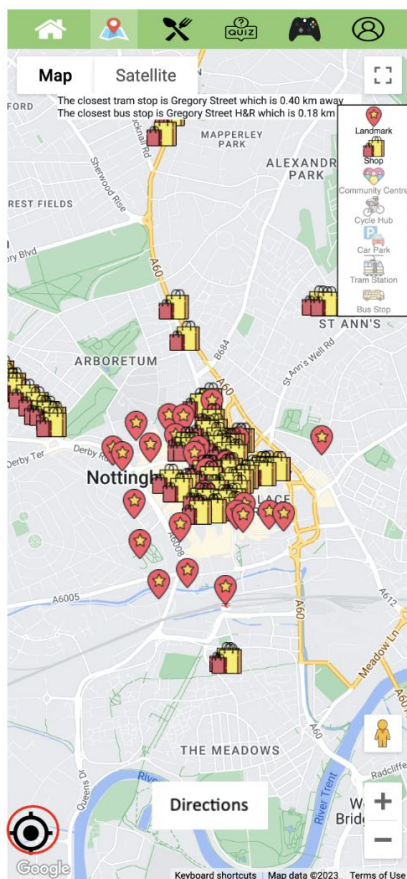
All icons on the map can be clicked to reveal more information



The filter on the right hand side can be used to add / remove types of marker to and from the map

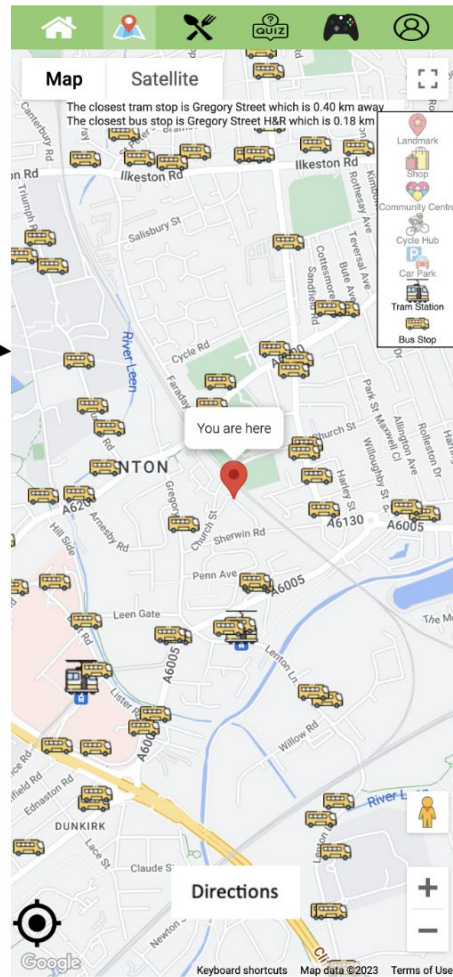
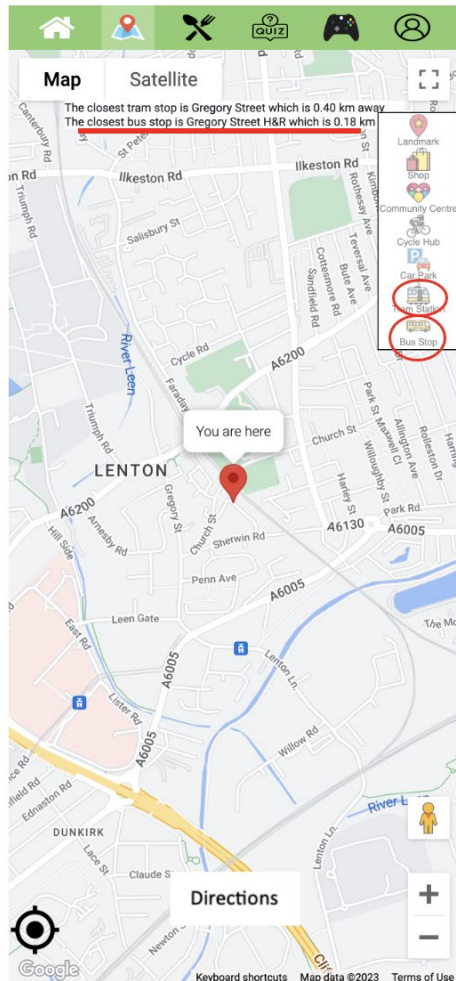


To view your current location, click the button in the bottom left



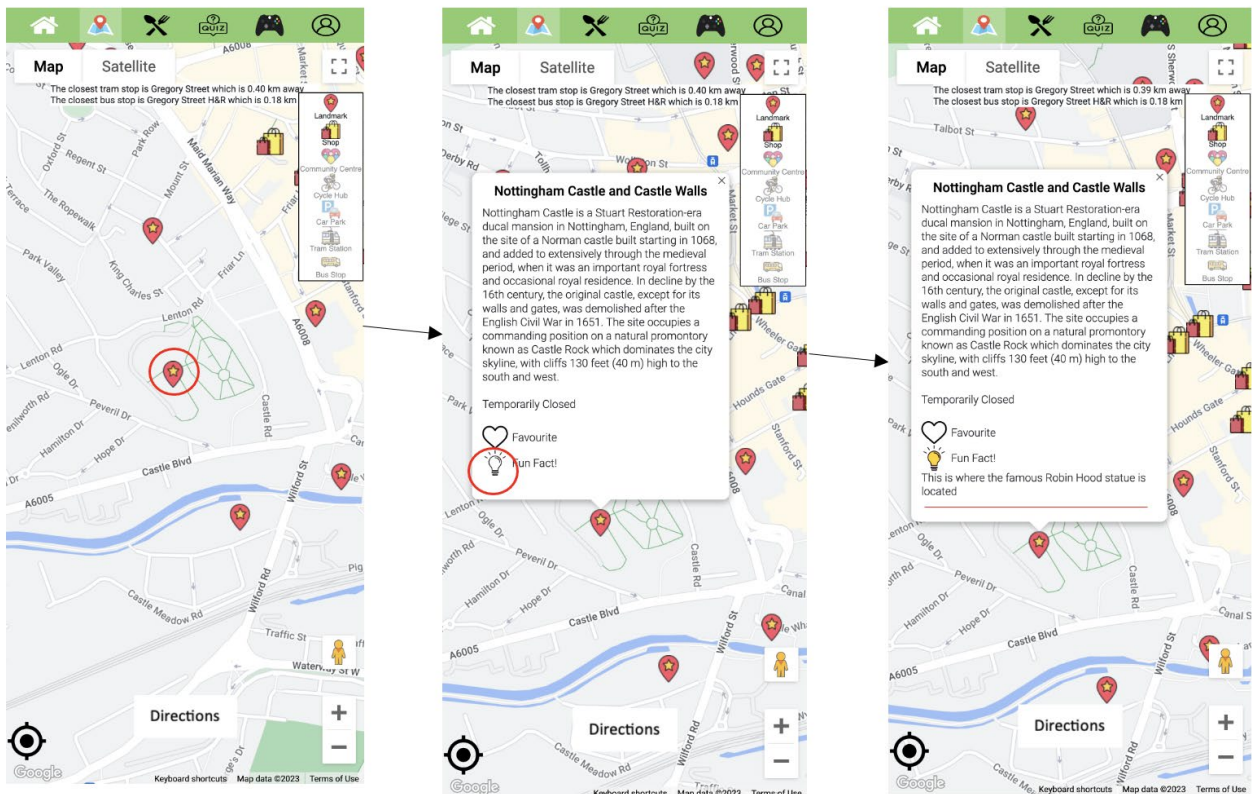
Transport Links

Distances for the closest transport links can be seen at the top of the screen. Pins for buses and trams can be selected via the filter on the right hand side



Light Bulb

Select a landmark pin on the map to open the landmark's information popup. Then select the light bulb icon to view a fun fact.



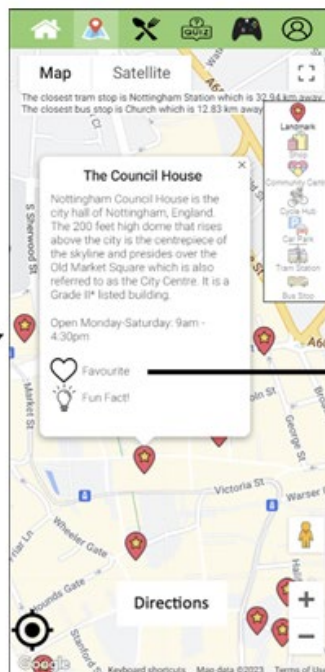
Favourite

Select a Landmark pin on the map to open the landmark's information popup. Then select the heart icon to place this landmark in your favourites list.

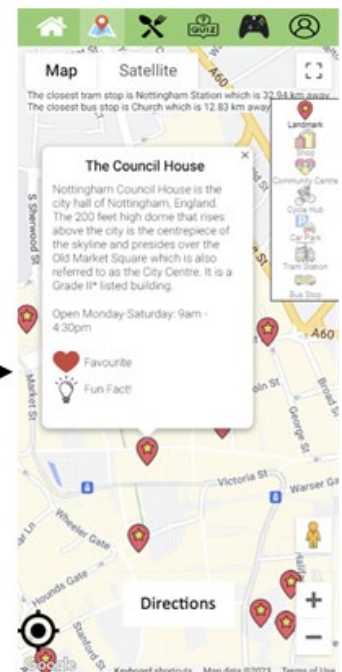
Map Screen



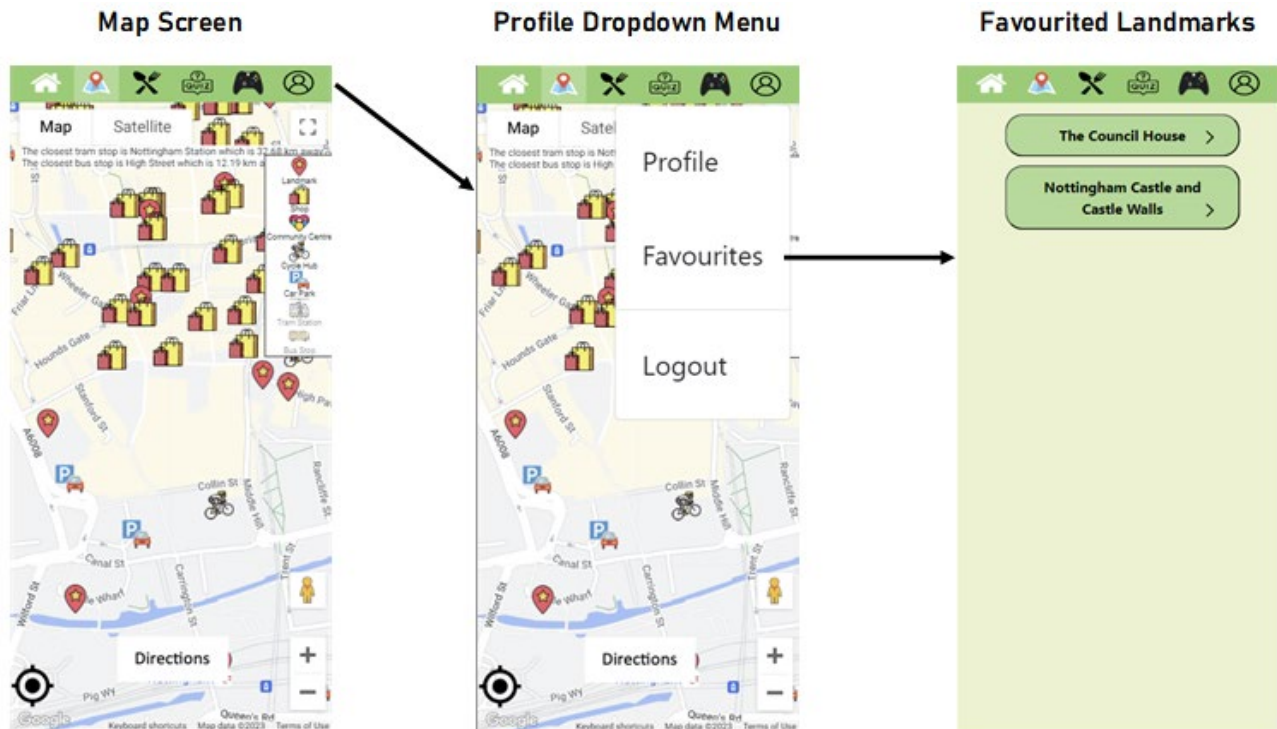
Landmark Information



Favourite Landmark

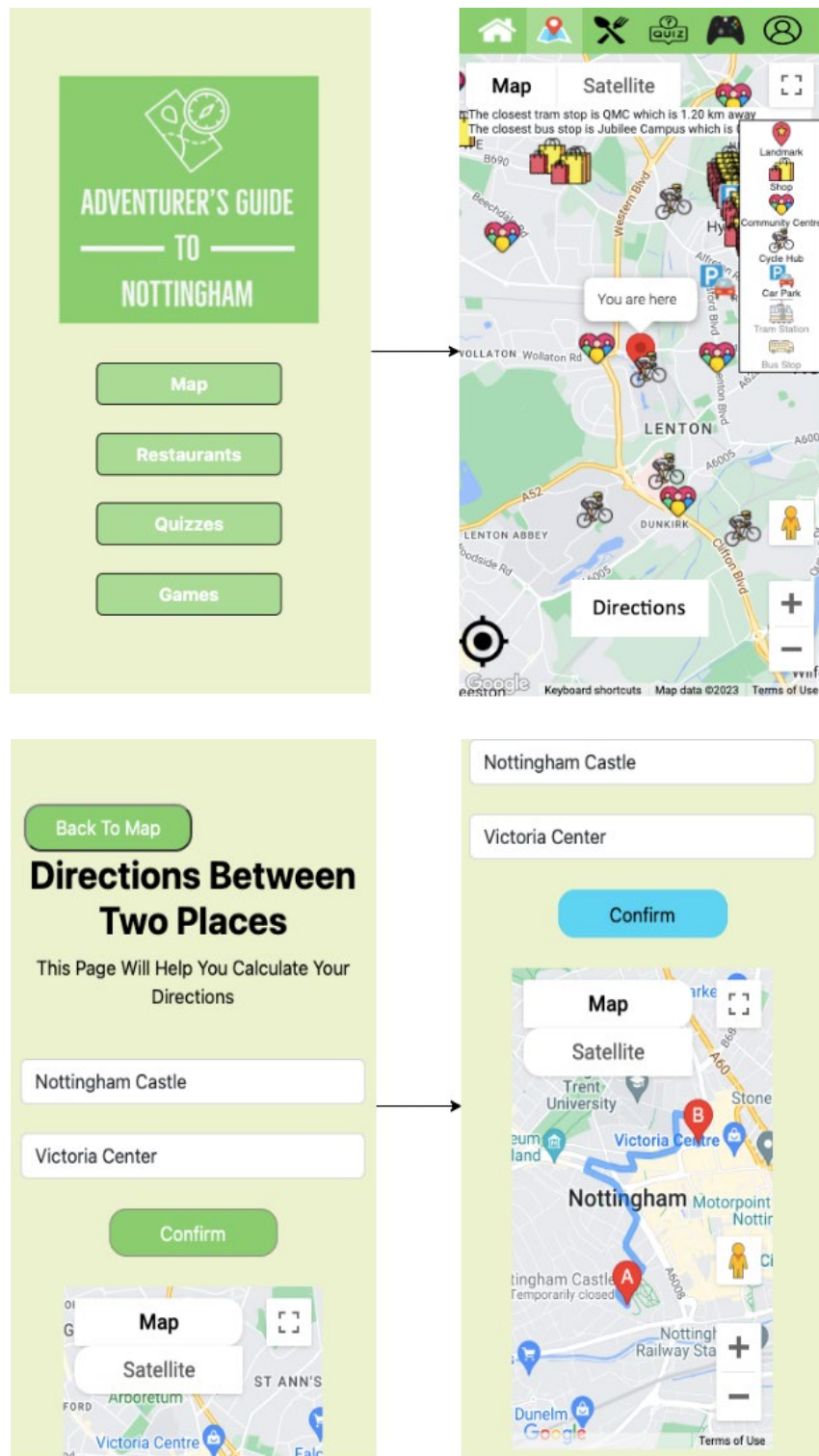


To view your favourite landmarks press the user icon in the navbar and select “Favourites” in the dropdown menu.



Directions

Assuming that the user has already signed up and logged in, Click on the “Map” button on the home page. Post redirection, a map will open in a window with a button “Directions” situated in the centre, at the bottom of the page. Upon click, it will redirect to a new window which consists of 2 text boxes for the user to enter their origin and destination respectively. Then, click on the confirm button to observe 2 markers placed on the map below the confirm button and a blue highlight for the route.

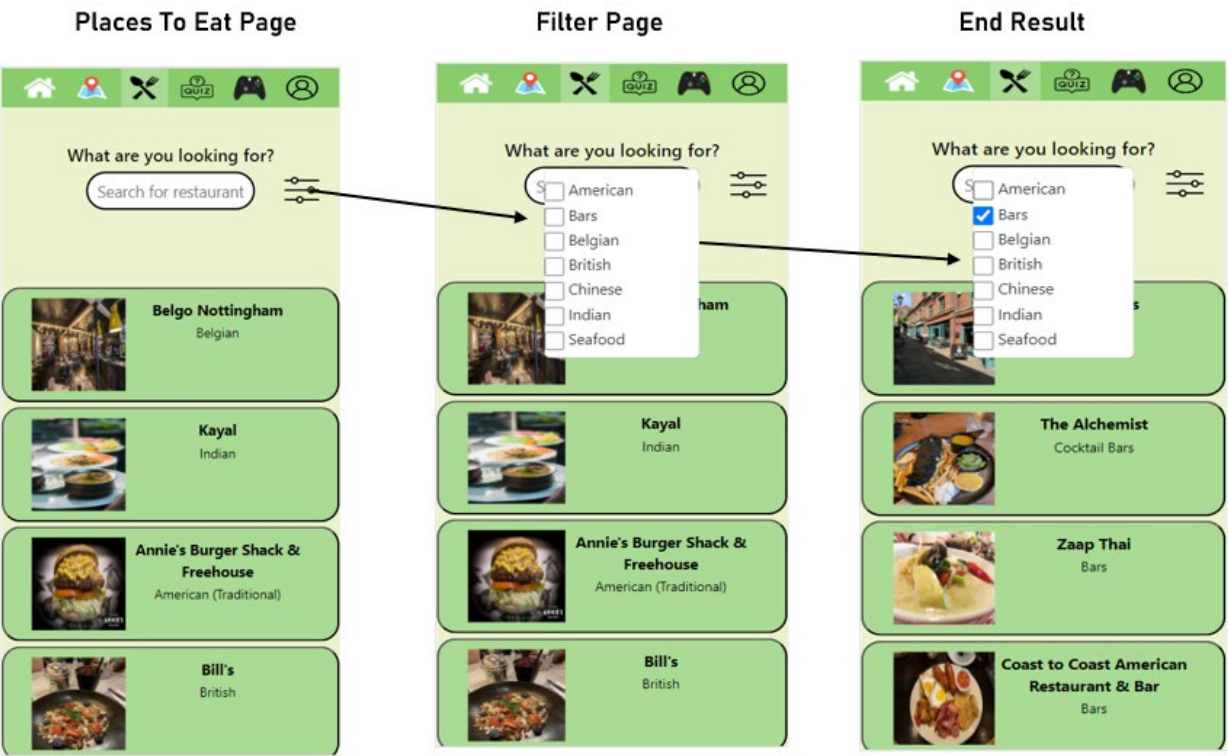


(Note: the directions page does not contain a navigation bar, therefore, to access any other feature of the app, the user must click on the “Back to Map” button placed at the top left of the page)

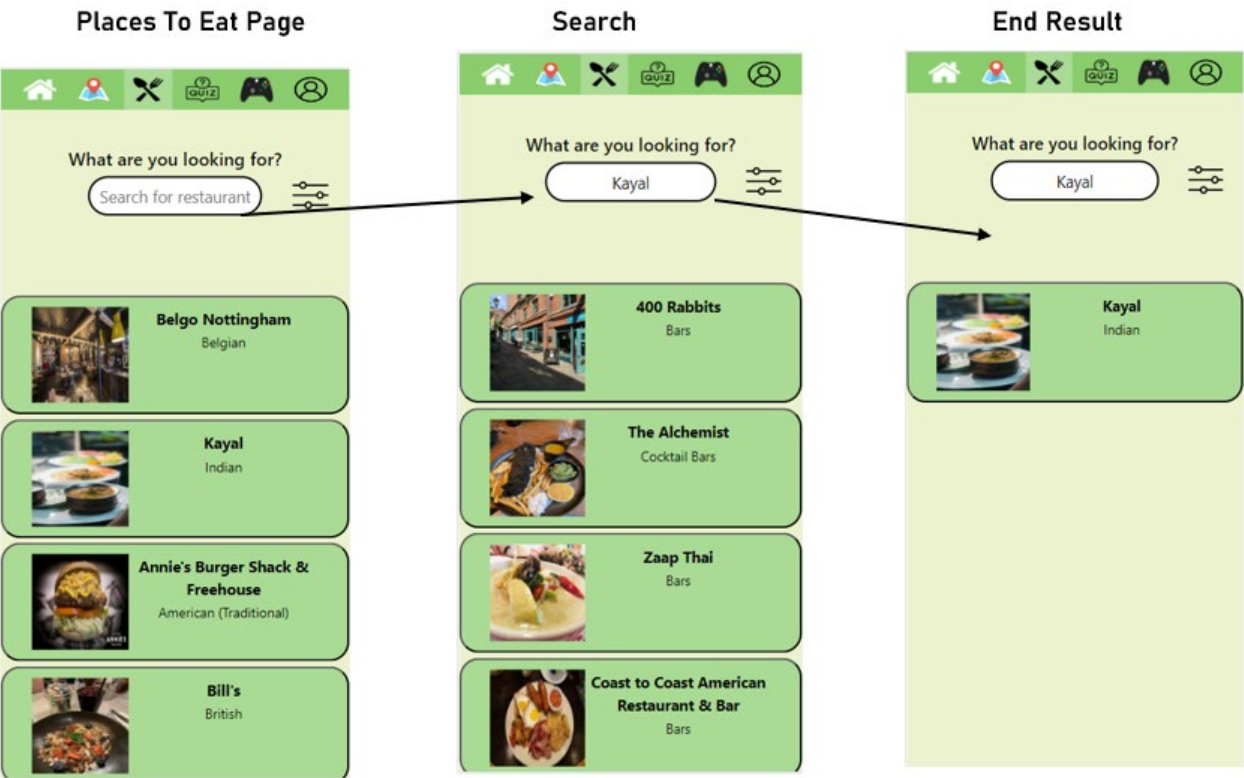
Places to eat

On the "Places to Eat" page, users in normal mode can browse through a range of dining options available in Nottingham. They have the ability to search for specific restaurants by name or apply

filters based on cuisine to refine their options. To go through options there are two paths, we can either apply a filter on the list of restaurants or we alternatively search for an option.



The user has the ability to click on a filter option as listed above in order to produce a list of restaurants to their liking.



The user is also able to search for any restaurant or cuisine alternatively as shown above, the method is quite straightforward and intuitive. The user just has to click on the search bar, type their end result and press enter.

Quizzes

From the quiz menu select from three categories of quizzes: "Landmarks", "Historical Facts", and "Religious Spaces".

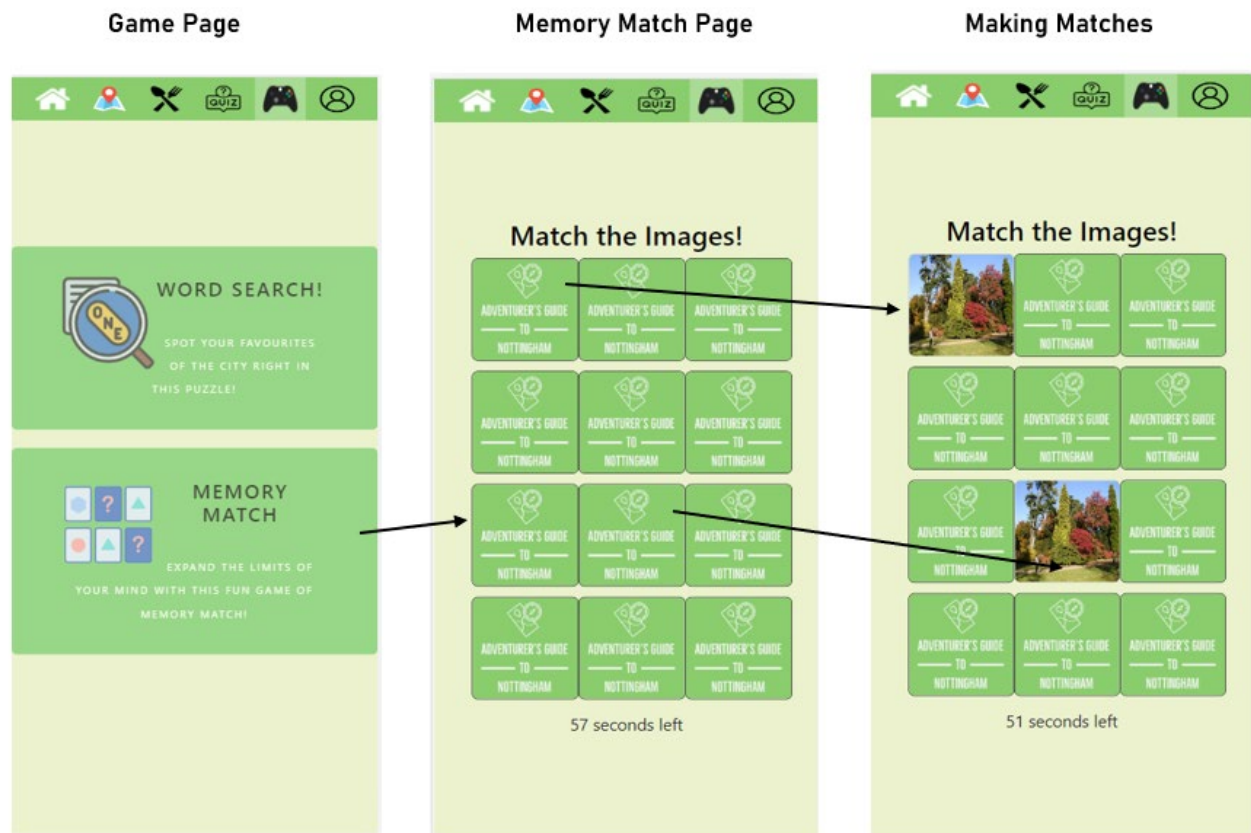


Answer the question within the time limit provided (shown at the bottom of the screen). If the answer selected is correct your score will increase. The timer resets for each question.

Games

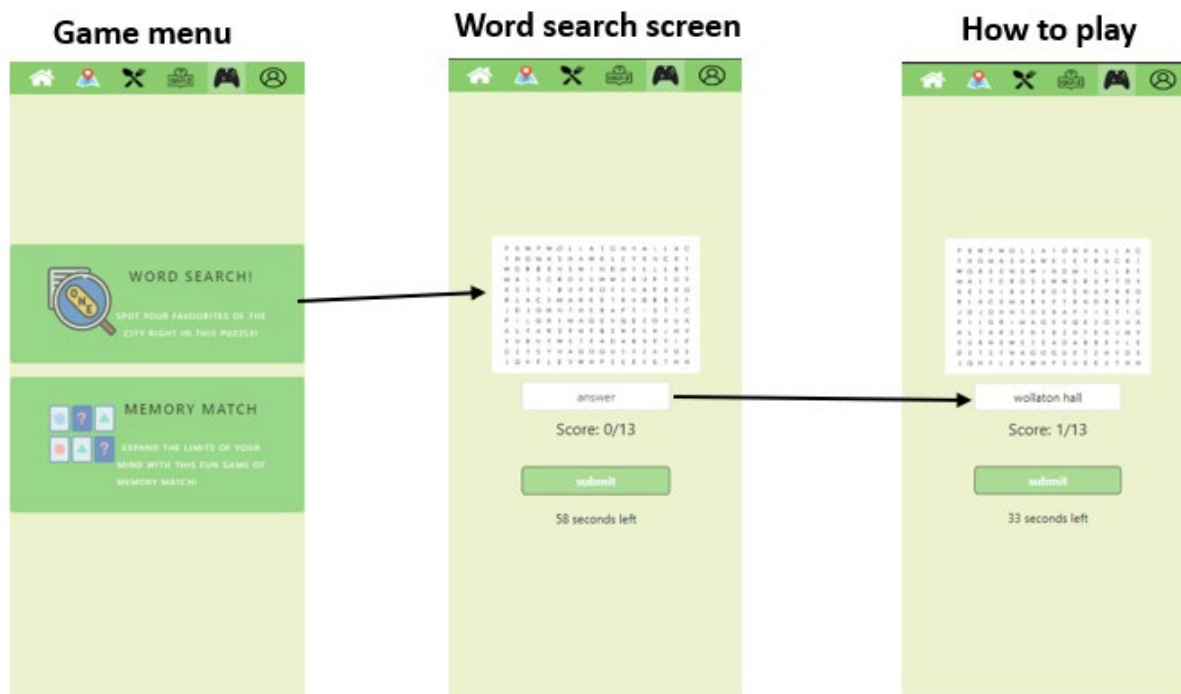
Memory Match

Memory match is a classic card game where the main objective is to find as many matching pairs as possible under a time constraint. Of course, our version has a nottingham twist, with each card labelled with a unique landmark of the city.



As seen above, the user should click on the cards until a matching pair is found. The game is over either when time runs out or all matches are made. So you better be quick!. Do you find those landmarks familiar to look at?

Word Search

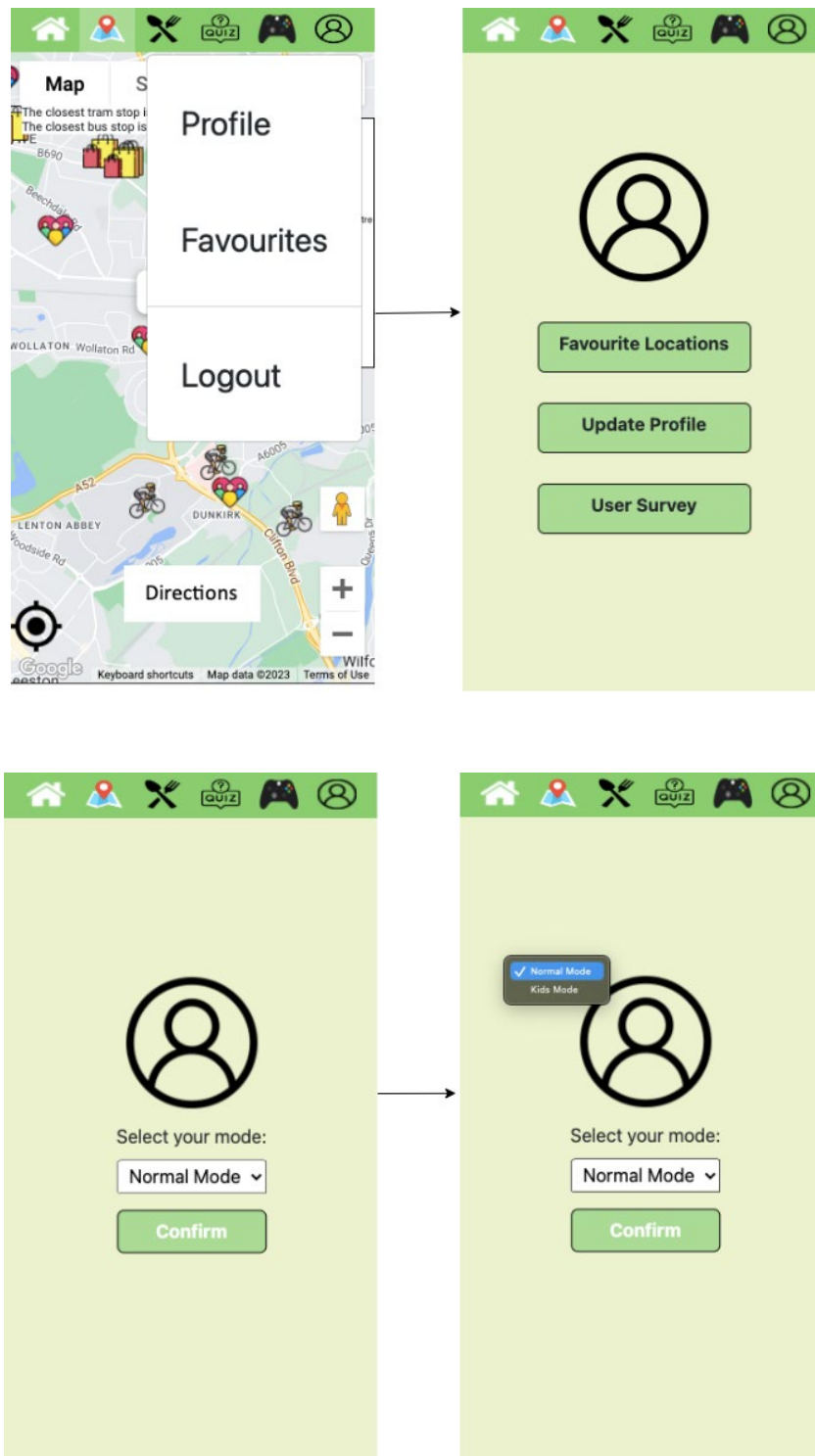


A word search game involves finding words hidden in a grid of letters. The words can be arranged horizontally, vertically, or diagonally. To play the game, look through the grid and try to find words or phrases related to Nottingham's landmarks, history or religion!

Hint: you might have seen them in our quizzes...

Update Mode

Assuming that the user has already signed up and logged in. Click on any button displayed on the home screen which will redirect the user to the corresponding window. Each window has a navigation bar on top consisting of a few options. Click on the first icon from the right (profile) to access profile information. In this dropdown, click on "Profile". Upon click, it will open a new window with the following options : "Favorite Locations", "Update Profile" and "User Survey". Click on "Update Profile" and change the mode using the dropdown menu and confirm button in the new window.

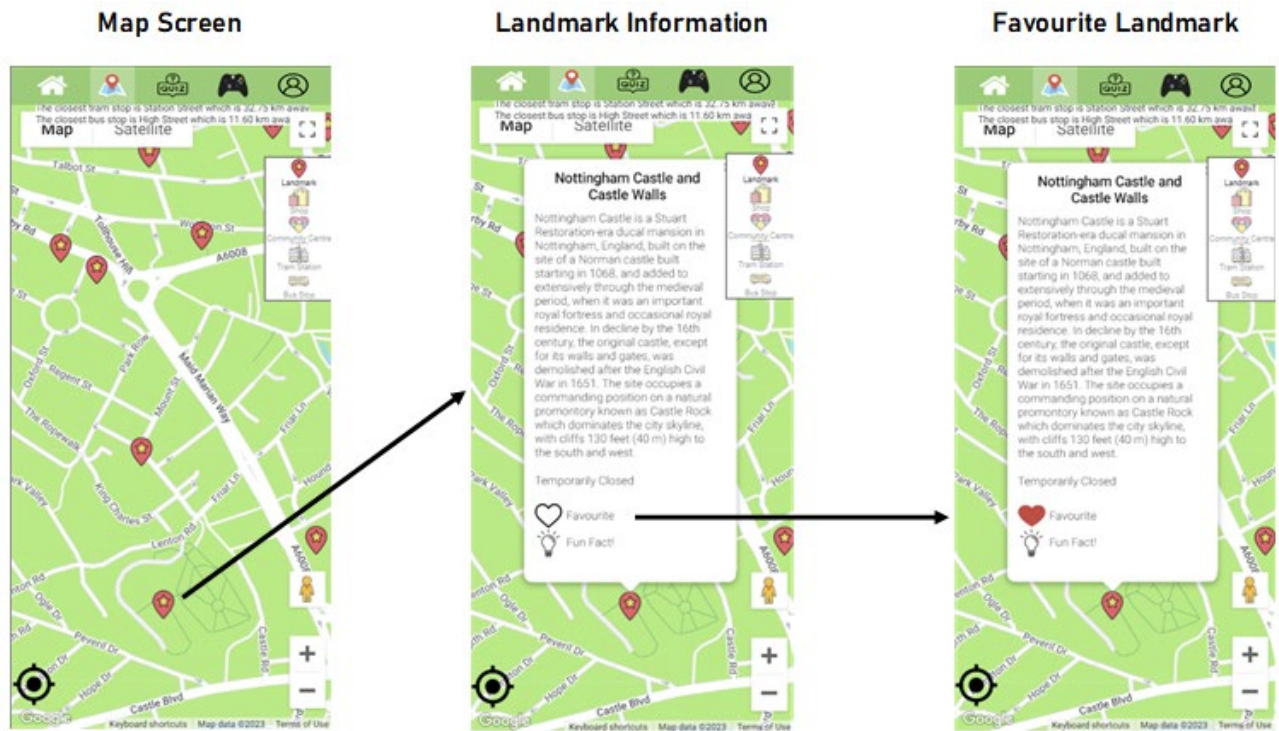


Kids Mode

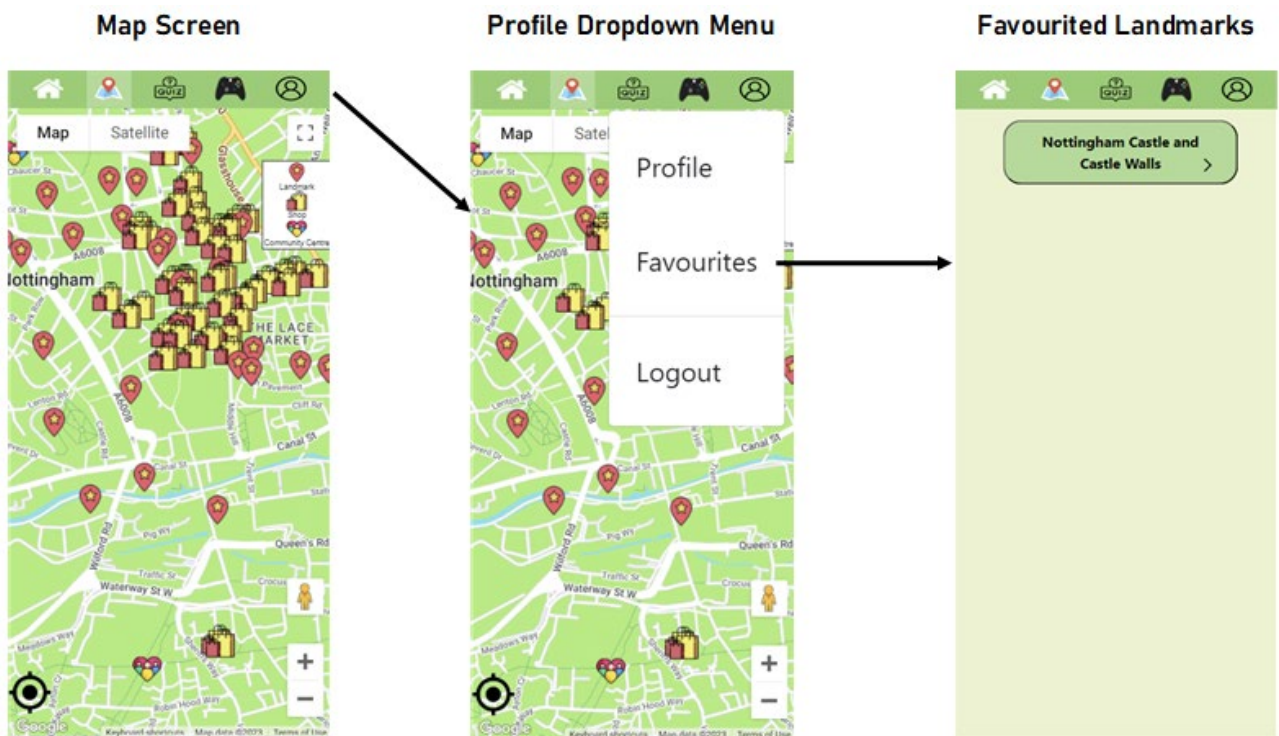
Map

Favourite

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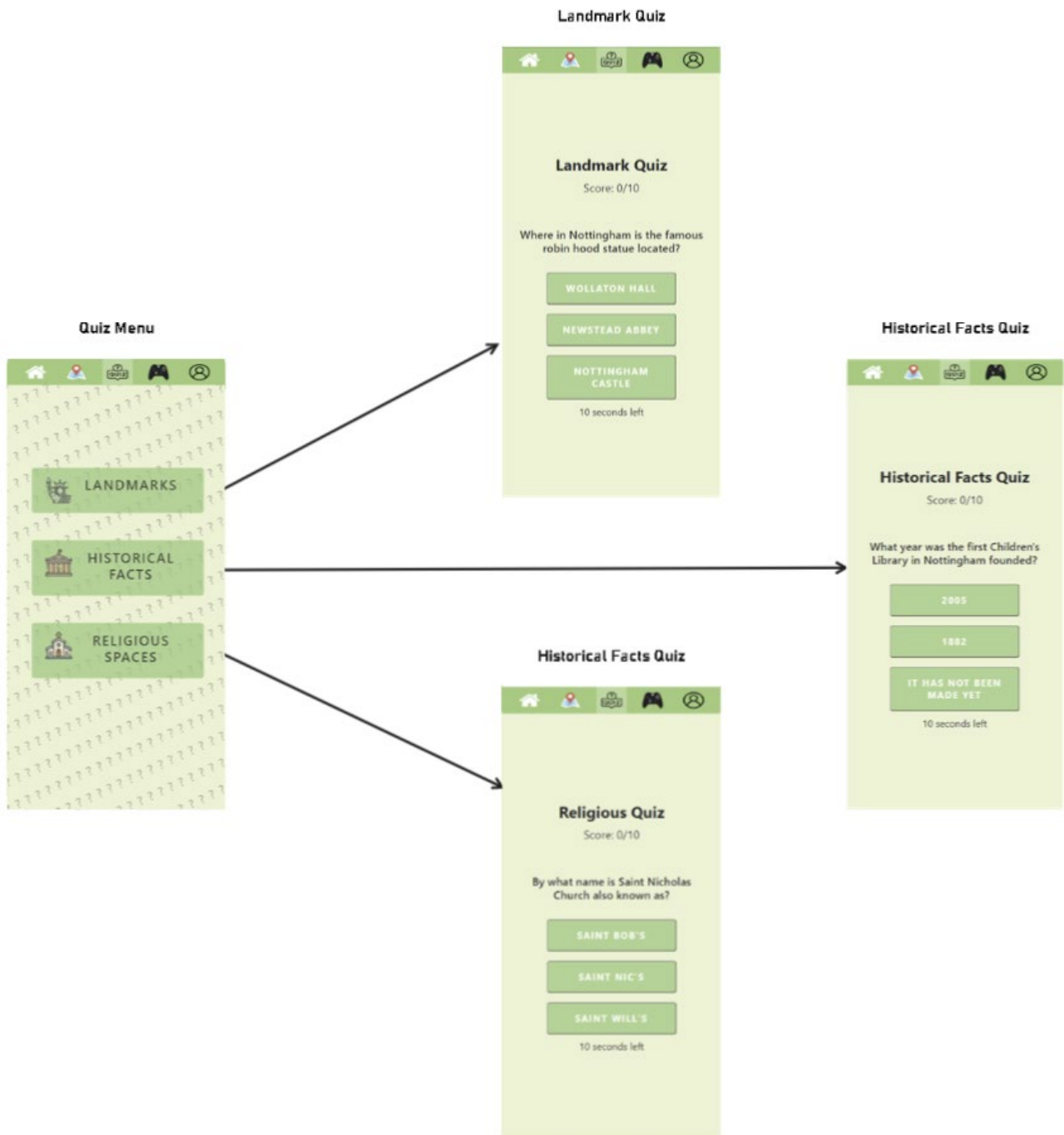


To view your favourite landmarks press the user icon in the navbar and select "Favourites" in the dropdown menu.



Quizzes

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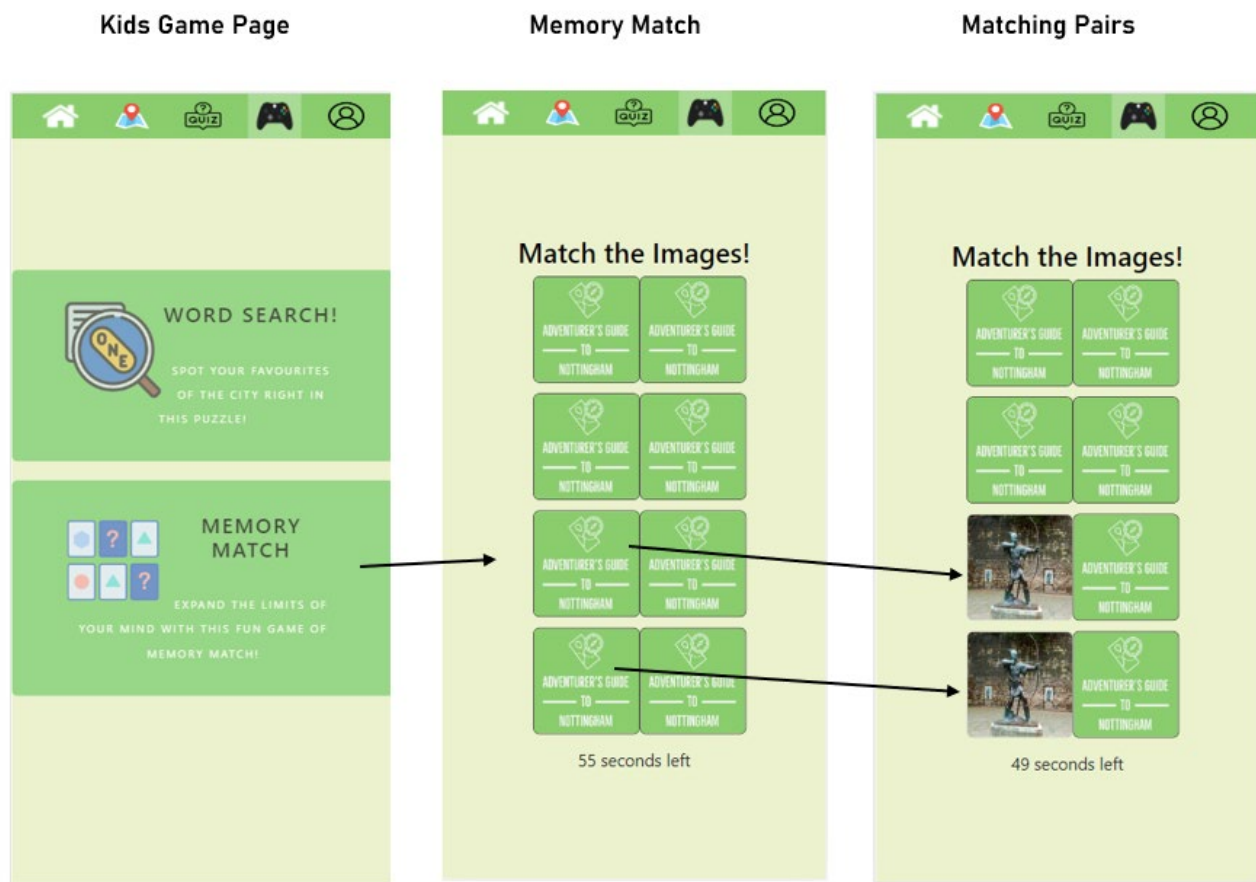


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Games

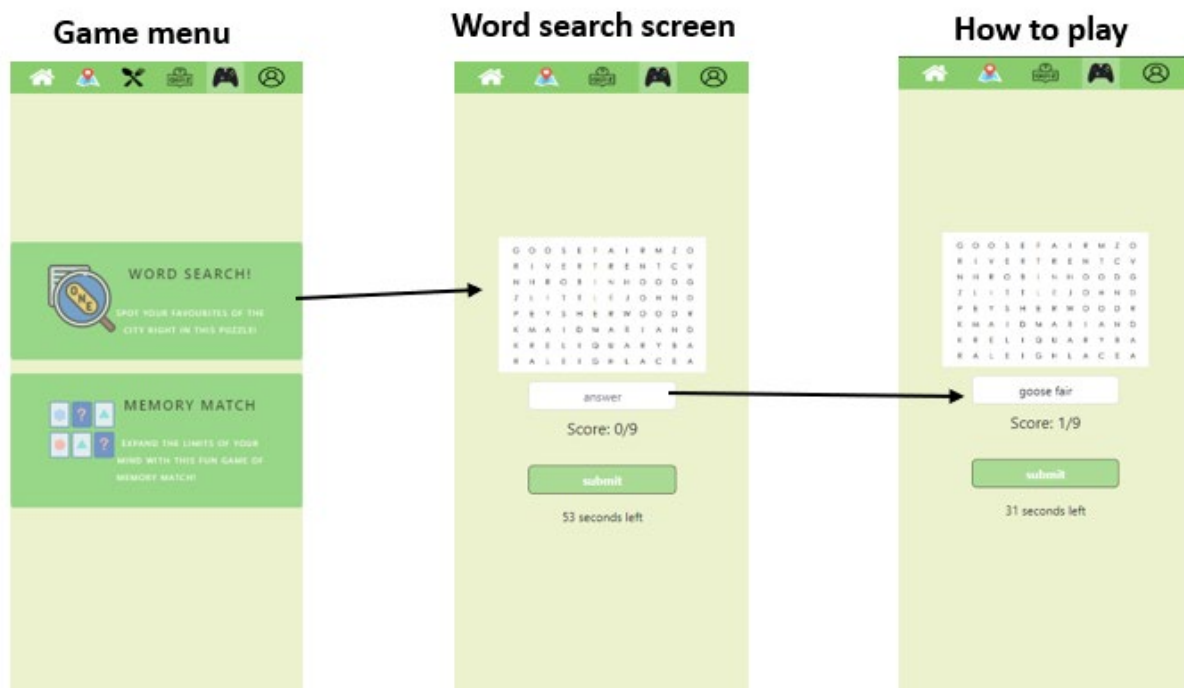
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Word Search



A word search game involves finding words hidden in a grid of letters. The words can be arranged horizontally, vertically, or diagonally. To play the game, look through the grid and try to find words or phrases related to Nottingham's landmarks, history or religion!

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Troubleshooting

The user must be logged in and have their location turned on to use the application as intended.

Ideally, any clicks on the favorited items in the kids mode would redirect the user back to the map. This does not work as intended. It is work-in-progress in the kids mode but works as expected in the normal mode.

FAQ

Q: Does it work outside Nottingham?

A: The app currently does not work outside Nottingham as the user location is integral to its functionality, we hope to expand on this soon.

Q: Can I use it without an account?

A: Not currently, the account is needed in order for the ultimate user experience such as saving mode and adding favourites, however in the future a guest mode will be available.

Q: Can I use the app without the user location turned on?

A: As of the current version of the app, it is not recommended that you turn off the user location. Important features such as the places to eat page and transport links use your current location to establish the closest links. Turning the user location off will make you unable to use these features. We are sorry for the inconvenience this has caused, we hope that in a future version, you will be able to use these features offline.

Q: Do you need any experience to use this app?

A: The application's interface is highly user-friendly, and it currently offers two modes - "kids" and "normal" - that are both straightforward to use.

Q: Is there a version for other cities?

A: As of now, no. Stay tuned for more in the future!

Q: How do I leave a review for this app?

A: You can get in touch via email at nccopendata@gmail.com or you can complete our survey on our app itself.

Q: How do I get help with the app?

A: For technical inquiries please refer to the troubleshooting section of this guide, for any further help please email us at nccopendata@gmail.com

Q: In what languages is the app available in?

A: Currently only English is available, but we are considering adding more languages in the future.

Q: Is this suitable for my child to use?

A: Yes! Our app currently has two modes, a normal mode for older audiences and a kids mode catered to children.

Q: What is the difference between the two modes?

A: The normal mode offers the same features as the kids but more, such as transport links, places to eat and directions between landmarks. The entertainment in the normal mode is more complex than the kids but they are both straightforward to use.

Further help

If you have any questions or encounter any issues while using “Adventurer’s Guide to Nottingham”, please don’t hesitate to contact our customer support team. You can reach us by emailing nccopendata@gmail.com

Can we do better? Let us know how, by completing our [survey](#).

Useful links

Customer support: nccopendata@gmail.com

Feedback survey:

<https://forms.office.com/Pages/ResponsePage.aspx?id=7qe9Z4D970GskTWEGCkKHt13h9QfEU1Fr6JL1ThahOxUM1pEVTVCQTM3UTizVIRBWURaT0JKSVBYUy4u>