




EWB Challenge

By Group 1



A little bit about...

The Team

Problem Identification

The challenge areas are:

Food

- There are many people within Govan who are suffering from poverty
- There are approximately 1000 asylum seekers in Govan, many of which live below the poverty line
- Lots of people rely on charities/food banks for support
- Food banks lack variety and quality food and may not be able to cater for people's cultural dietary requirements (e.g., Halal food)
- People seeking Halal food often must travel into the city center
- There is limited access to fresh and nutritious food
- 11% of people in Glasgow have been affected by food insecurity in the past year
- 60% of adults in Glasgow are overweight or obese

People need to know how they can access nutritious, affordable foods that meet their cultural needs, the importance of maintaining a healthy diet and where they can go if they have health concerns.

Our system

The system we have created is a website that provides information on:

- Food insecurity
- Healthy foods and nutrition
- Statistics related to food and health in Govan
- Local charity organisations such as food banks that the users could access or donate to
- Places where people can access foods that meet their cultural needs
- Online and in-person health services that people can access if they have any health concerns

Analysis of problem domain

- There is limited access to technology in Govan
- Whilst smartphones are commonly available and superfast mobile phone coverage is available in 98% of Govan, many people live in old buildings with thick walls that block mobile and WIFI signals
- Broadband packages can be unaffordable for refugees and asylum seekers
- Some users may have to rely on slow public WIFI to access the system
- Some people lack essential digital skills

The website must have a simplistic and user-friendly design to help communicate information to the users

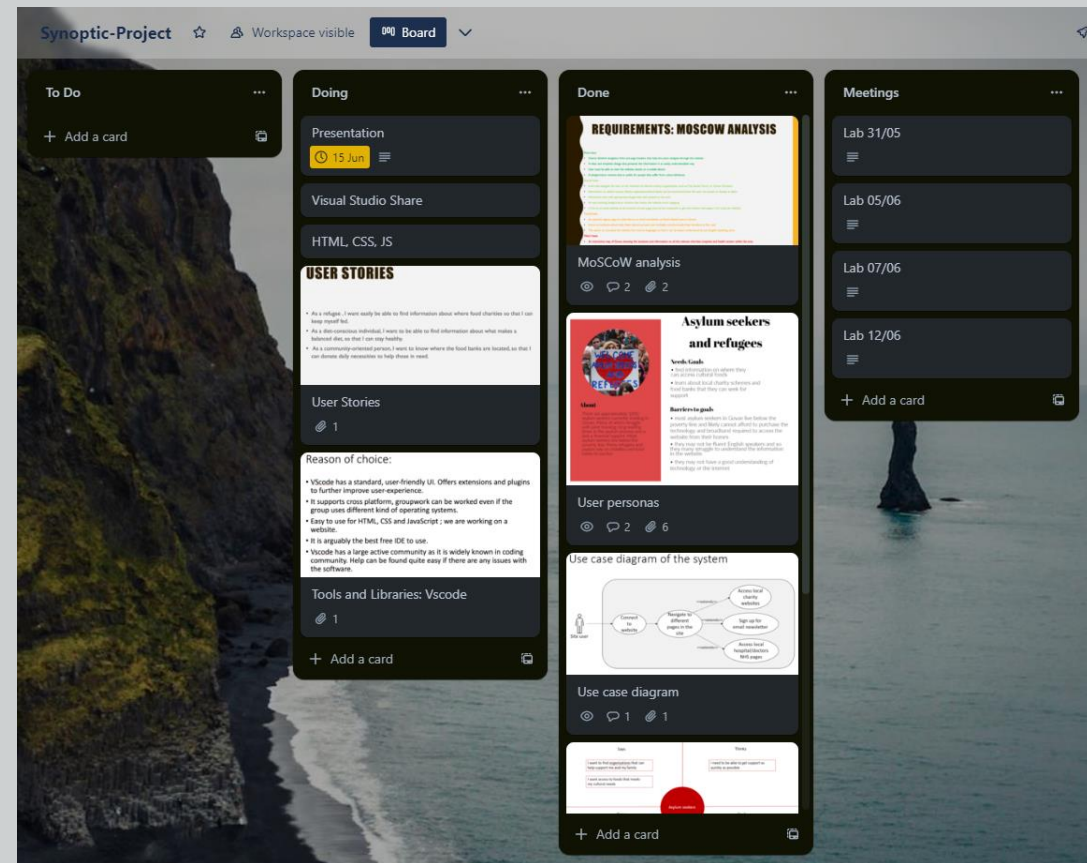
As smartphones are common in Govan, the website must be designed so that it can be clearly viewed and navigated on a mobile view

To keep the loading times fast, each webpage should not contain unnecessary content such as pop-up ads or animations

There will be an email address at the bottom of each page that the users can contact to get help and support for using the website

Agile methodology

- To produce our system, we have used a Kanban style approach using the website Trello
- We organised the tasks we needed to complete into three lists, To do, Doing and Done and had another list for keeping a record of our meetings
- In the meetings we discussed who would work on what task, presented the work we had completed so far and gave feedback to each other



Requirements: MoSCoW analysis

Must have:

- Clearly labelled navigation links and page headers that help the users navigate through the website
- A clear and simplistic design that presents the information in an easily understandable way
- User must be able to view the website clearly on a mobile device
- A colour scheme that is usable for people that suffer from colour-blindness

Should have:

- Links that navigate the user to the websites of relevant charity organisations such as The Govan Pantry or Trussle Trust food banks
- Information on where various charities and food banks can be located and how the user can access or donate to them
- An eye-catching design that makes the website more engaging
- A link to an email address at the bottom of each page that can be contacted to get information and support for using the website

Could have:

- An optional signup page to subscribe to an email newsletter on food-related news in Govan
- Icons on buttons which help them stand out and non-verbally communicate their function to the user
- The option to translate the website into various languages so that it can be better understood by non-English speaking users

Won't have:

- An interactive map of Govan showing the locations and information on all the relevant charities, hospitals and health centers within the area

User persona



About

There are many asylum seekers and living in Govan, most of which are below the poverty line. Many rely on charities and food banks to survive. They struggle with issues such as:

- Poor housing
- Long waiting times in asylum process
- Limited financial support

Asylum seekers and refugees

Needs/Goals

- find information on where they can access nutritious and/or cultural foods
- learn about local charities schemes and food banks they can contact for support
- discover where they can go for support for health issues

Barriers to goals

- may not be able to afford the technology and broadband required to access the website from their homes
- may not be fluent English speaker so might struggle to understand the content on the website
- may not have a good understanding of technology/the internet

User persona



About

People in Govan have limited access to fresh food and a high percentage of people are obese or overweight.

People concerned about their health

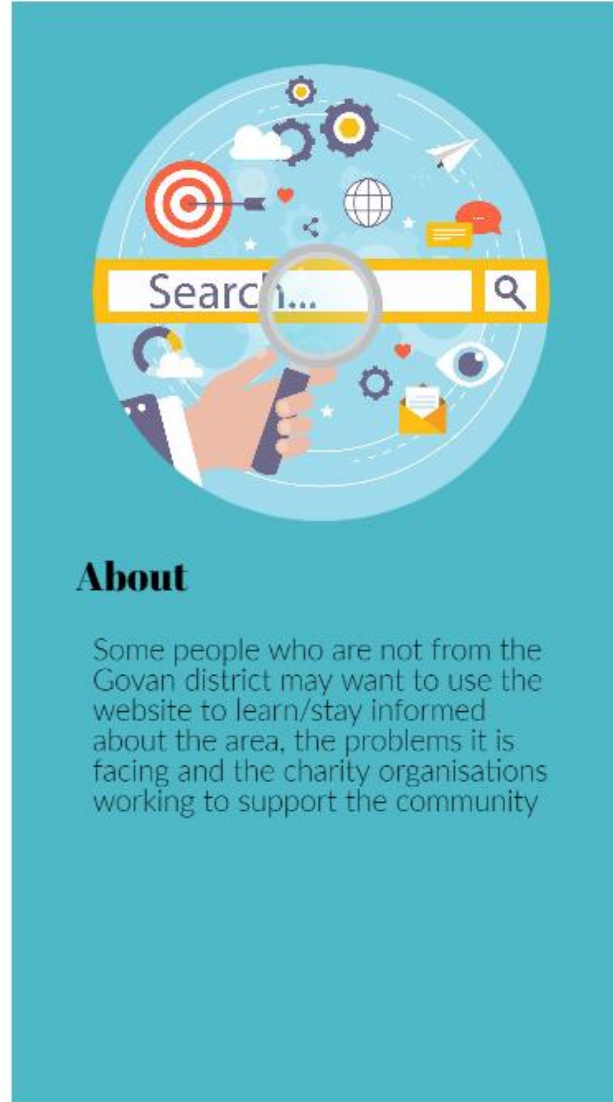
Needs/Goals

- learn about food nutrition and how they can improve their diet
- learn about the physical and psychological benefits of eating a varied, nutritious diet
- find information on health services they can contact if they have health concern

Barriers to goals

- may have limited access to technology and the internet as many live in old buildings with thick walls that block signals
- may not have the technology needed to access the website within their homes
- may not have a good understanding of technology/the internet

User persona



About

Some people who are not from the Govan district may want to use the website to learn/stay informed about the area, the problems it is facing and the charity organisations working to support the community

People who wish to learn about the area

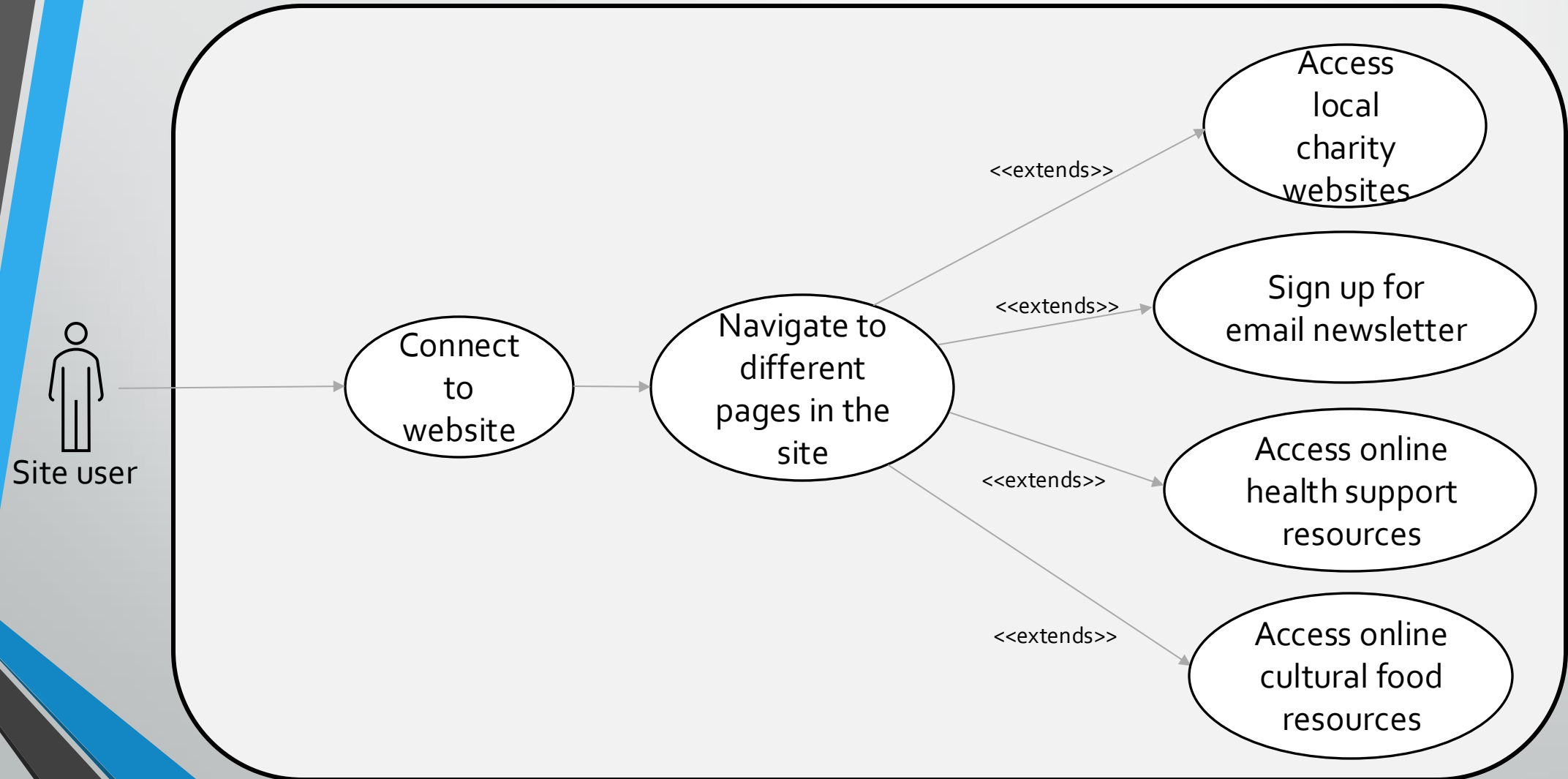
Needs/Goals

- to find information about the various local charity organisations including their purpose, location, and how they can support them if they wish
- to sign up for an email newsletter containing updates and information related to food in Govan

Barriers to goals

- may have limited access to internet and/or broadband
- may not have a good understanding of technology or the internet

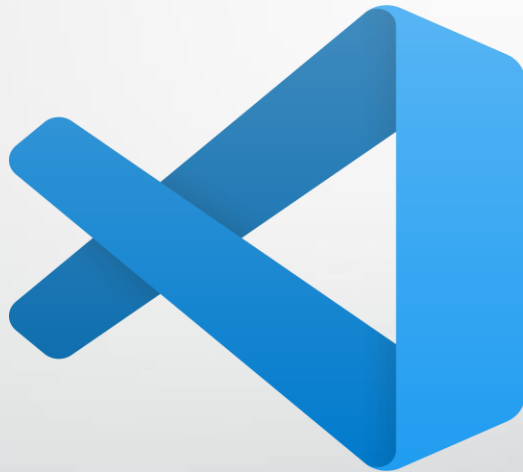
Use case diagram of the system



User Stories

- As a refugee , I want easily be able to find information about where food charities so that I can keep myself fed.
- As a diet-conscious individual, I want to be able to find information about what makes a balanced diet, so that I can stay healthy.
- As a community-oriented person, I want to know where the food banks are located, so that I can donate daily necessities to help those in need.

Tools & Libraries: VScode



Implementation of the Prototype:

- Does the solution scale well?
- Does the software require resources exceeding the capabilities of the local users?
- Does the software require advanced technical knowledge to maintain?
- Does the software require internet access?
- Is the interface easy to use for the target demographic?



Prototype demonstration

User testing

To test the system, we showed the website to 2 different users and recorded their feedback on what they liked, disliked and what they thought we should add to the website

User	Liked	Disliked	What could be added
1	<ul style="list-style-type: none">• The design of the website looks nice and is easy to understand• The option to sign up for a newsletter• The option to email for support	<ul style="list-style-type: none">• The lack of icons used on the website	<ul style="list-style-type: none">• Could add more icons to make buttons stand out
2	<ul style="list-style-type: none">• The design of the mobile version of the nav bar• Found the content to be useful and interesting	<ul style="list-style-type: none">• The lack of images and animations on the website• Thought that the colour scheme should have been brighter	<ul style="list-style-type: none">• A brighter and more colourful design with images and animations to get people's attention

Questions





Thank you for your time,

It has been a pleasure.