Requirements

Stakeholders

End user

o Visitors of the museum using the website.

Admin

o Museum curators and other people managing the software.

Important User Stories

End User:

- 1. As a user I want to view objects by their popularity so that I can find the most interesting objects.
- 2. As a user I want to view information about each object so that I can learn about it.
- 3. As a user I want to view trails between objects within a region so that I can visit the places.

Admin:

- 1. As an admin I want to modify items in collection so that I can add, delete or update information about each object.
- 2. As an admin I want to view stats about objects in the collection so that I can understand which objects are of most interest to the users.
- 3. As an admin I want to add trails for each object which shows the navigation of where it was from.

User Story Flows

(End user 1) As a user I want to view objects by their popularity so that I can find the most interesting objects.

- 1. Consider list of regions
- 2. Select a region
- 3. Objects from that region displayed descending order by most viewed

(End user 2) As a user I want to view information about each object so that I can learn about it.

- 1. Consider list of regions
- 2. Select a region
- 3. Consider list of objects from the selected region
- 4. Select an object
- 5. Select the type of information to view (Images, Stories, General Information)
- 6. Display the selected information

Atomic Requirements and Functional Requirements

- 1. User must see a map of Bristol with pins (where objects are from) on it
- 2. User must be able to choose and filter the pins by region
- 3. User must be presented a list of objects from the selected region
- 4. User must be able to select an object and read information about it
- 5. Admins need a login system to prevent unauthorised access
- 6. There needs to be an "About Us" page

Non-functional Requirements

- 7. Since the web application is mainly for visitors with a mobile device, the information displayed must be large and clear
- 8. Have a colour blind mode available for colour blind users
- 9. The web server has to take on a large number of requests sent by the visitors and admin in a short period of time
- 10. Login system has to be secure (e.g. login details stored in somewhere safe)
- 11. Map start-up time should be no greater than 5 seconds.

(End user 3) As a user I want to view trails between objects within a region so that I can visit the places.

- 1. Consider list of regions
- 2. Select a region
- 3. View trails within region
- 4. Select a trail
- 5. Navigate route

Alternative flow:

- 1. Consider list of regions
- 2. Select a region
- 3. Consider list of objects from the selected region
- 4. Select an object
- 5. View trails associated with said object
- 6. Select a trail
- 7. Navigate route

(Admin 1) As an admin I want to modify items in collection so that I can add, delete or update information about each object.

- 1. Login as admin
- 2. Choose add, delete or update
- 3. For add:
- a. Input the details of the new object
- b. Add the object into the database
 - 4. For delete:
 - Select the object that you want to delete by key
- a. Remove the object from database

- 5. For update:
- Select the object you want to update by key
- a. A form with all the object's detail should popup
- b. Edit details
- c. Submit and update the database

Exceptional flow:

- 1. Update:
- a. Choose update
- b. Select the object you want to update
- c. A form with all the object's detail should popup
- d. Edit the form with information that is the wrong type for that specific field
- e. An error message should popup saying "invalid type"
 - 2. Add:
 - Choose add
- a. Leave empty a required field
- b. Submit form
- c. An error message should tell you that field must be filled in
 - 3. Delete:
- Choose delete
- a. Type in a key that doesn't exist
- b. An error message should tell you that object couldn't be found and try again

(Admin 2) As an admin I want to view stats about objects in the collection so that I can understand which objects are of most interest to the users.

- 1. Login as admin
- 2. Select a region
- 3. Sort objects from that region descending by number of views
- 4. Select an object
- 5. Display stats about the object (Number of views, Number of trails it's a part of)

(Admin 3) As an admin I want to add trails for each object which shows the navigation of where it was from.

- 1. Login as admin
- 2. Open the new trial form
- 3. Select a region
- 4. Select the objects that are going to be included in the trail
- 5. Enter a name for the trail
- 6. Submit form
- 7. Add new trail to database