

## COMP 327 Assignment 2 User Guide

### Instruction:

- When first start the App, App will first check the internet connection. If the network is available, App will load image and data online. Otherwise, App will load an empty map with empty table showing “No internet”
- When starting the app second time, App will check the internet connection. If the internet is available, then the internet will carry on running with a user prompt “Read to use”. If the internet is not available, App will load the previous data from core data without updating. However, the app will give a user prompt “Data are previous data”.
- When loading the data or doing synchronization, the user needs to wait until the closure is finished.
- When the user is in the App, clicking on the annotation a CalloutAccessoryView will show up. Clicking on the CalloutAccessoryView, App will navigate user into the artwork in the same building.
- TableView below on the main page shows the image and some key information about the artwork. Clicking on the cell will present the user a detailed artwork information including the image in another table view (shown in Figure 3).
- In term of grouping building. The order of section is from the nearest to the farthest building. In the building section table, artworks are in an order as well, from the nearest to farthest.

### Extra feature:

1. The table in the main view is dynamic depending on user’s current location. When testing in London, the nearest location will be Entrance in south campus. (London is on south of Liverpool shown in Figure 1)
2. Customized cell view, including an image and a UITextView. TextView will show the corresponding image information.
3. Customized map CalloutAccessoryView. The left callout view is the image of the artwork on the right-hand side is the name and the building of the artwork.
4. Caching the artwork information (in Core Data) and images
5. Synchronizing the app on startup. This app will check to see if new or modified data is available from the web service using the last update date. The App will change the parameter in the URL link followed as the last update date stored in core data. After that, App will update date in core data based on the new page
6. In the portrait view Map is 40 percent height of the whole view controller safe area. The map is on the top of the table view. In the landscape view Map on the left and table on the right and they share equal width (shown in Figure 1).
7. Customized annotation view glyphText attribute introduced in WWDC17 and the Marker annotationTintColor
8. Customized header for sections. Have a different color and size for the header of section.

Reference:

App Icon from <https://www.flaticon.com>

Artwork image from

[https://cgi.csc.liv.ac.uk/~phil/Teaching/COMP327/artwork\\_images/](https://cgi.csc.liv.ac.uk/~phil/Teaching/COMP327/artwork_images/)

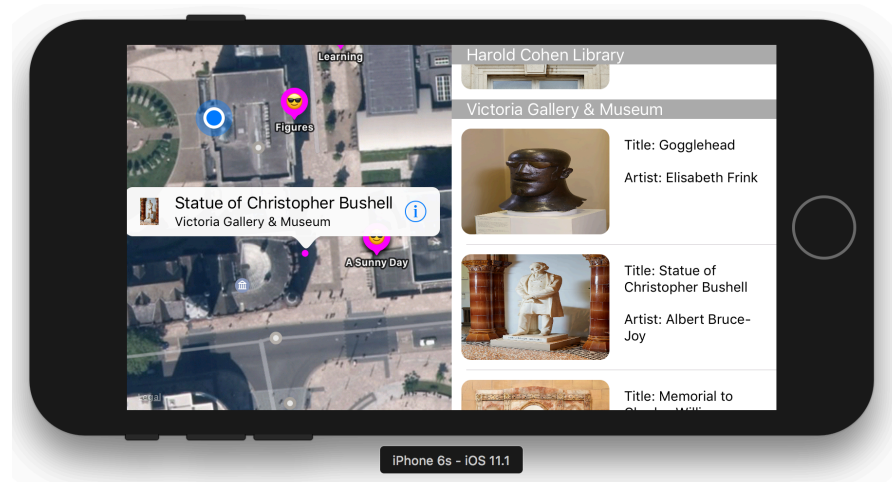


Figure 1

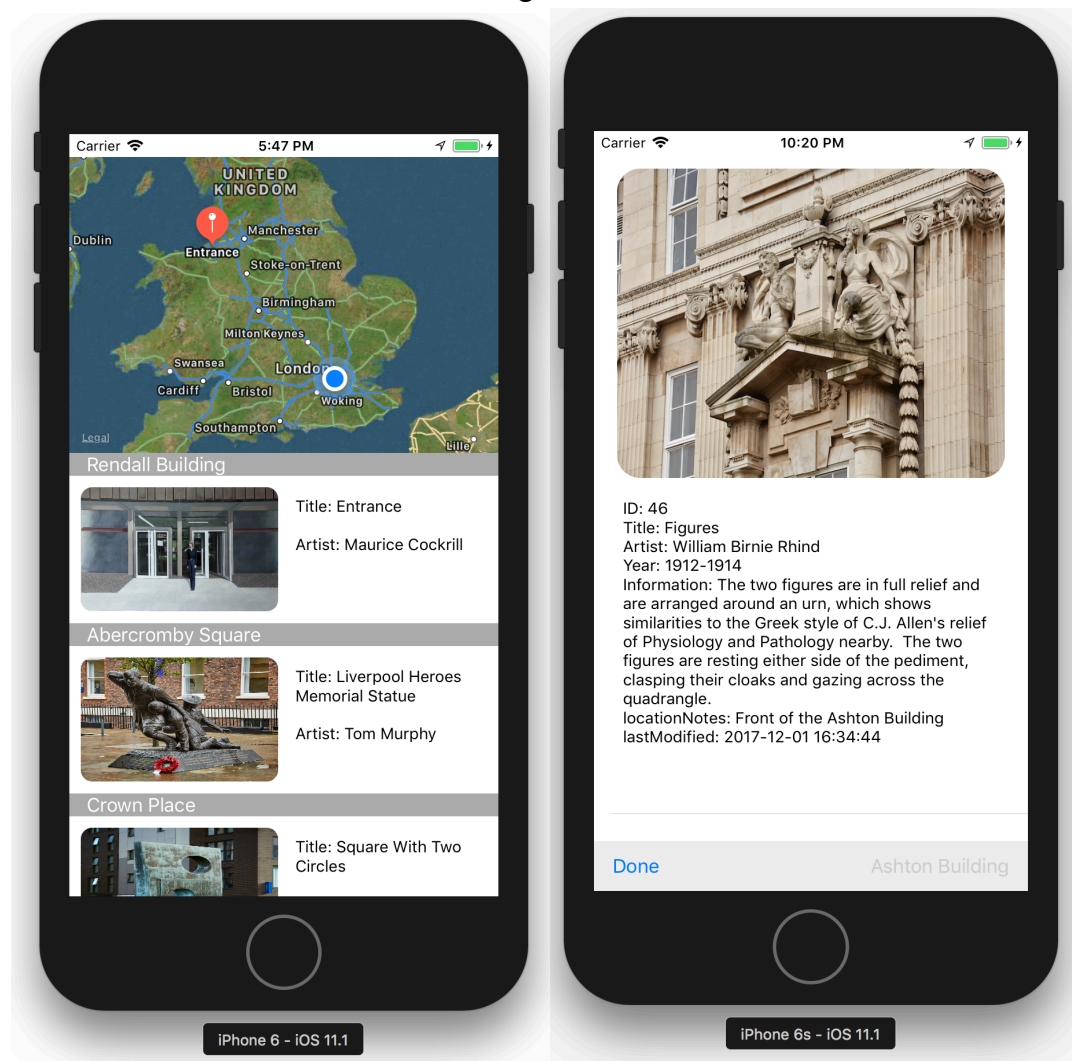


Figure 2

Figure 3