

# iOS Exercise C4 *Senior (Time: 2.5 hours)*

## **User story (20 points)**

Create an Application which loads images data (title, lat/long, url) from a JSON file embedded in the bundle. Download asynchronously and show them in a grid, using a collection view and allow the user to sort by title or distance by the user. It must also be possible to delete records via a long press.

Tapping on an image should open the image full screen, using a separate controller with a custom animation (the tapping image expanding itself).

## **Web content handling (10 points)**

The fullscreen image page should be a webpage (UIWebView), containing:

- the image title;
- a link to the image URL (should open in external safari);
- the image itself (the downloaded local copy);
- an embedded tweet of your choice, as in <https://dev.twitter.com/web/embedded-tweets>
- an embedded iFrame with a vimeo video: <http://vimeo.com/help/faq/sharing-videos/embedding-videos>
- The title should be displayed in bold, and red, using a css file.

## **Quality of Services (10 points)**

Structure the application using the MVC design pattern;  
Include functional tests using the KIF framework

## **Non functional requirements (10 points)**

1. The code must be well documented;
2. The code must run on iOS 8.0 and above;
3. The development language is English;
4. The app must have the version number 2.0.1;
5. All text used in app must be read from localized file (except image records);
6. The app must work in landscape and portrait mode;
7. Do not use a framework or other classes you have created before this test or downloaded from internet;
8. Use at least 10 test images.