# Learning Outcomes

This project will test your understanding of the following learning outcomes:

1. Interact and use a variety of hardware and software services provided by the mobile platform such as notification services, location services, sharing services, etc.
2. Implement mobile-based software solutions that interact with a variety of data sources and public APIs
3. Code, run, test, and debug mobile applications

# The app case study: Exploring Image Galley

You are required to create an iPhone app that will allow users to search and store random images from Flickr (<https://www.flickr.com/>). Flickr is a popular photo-sharing and hosting service where people share and explore each other’s photos. Currently, there are around 13 billion photos hosted on Flickr. You need to explore the Flickr API (<https://www.flickr.com/services/api/>) to find a suitable method to achieve following functionality.

The app should allow users to:

* Search any random image of your favourite location or place such as Eiffel Tower, Great Pyramid, Sydney Opera House etc.
* Filter the search results by any keyword such as “picture of a cute dog taken from Eiffel Tower” along with the location.
* Save the selected images with other information: image title and description to local database.
* Display the stored images using UITableViewController.

Note: You are required to use swift inbuilt components such as UIAlertViewController to show the confirmation/acknowledgement to user and UIImageViewController to display images.

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| Criteria | Specification |
| ***Search Image Screen:***  Search a random image from Flickr and display it with its title on the screen. | It searches and displays a random image from Flickr API based on the search criteria entered by a user. It prompts user to enter searching criteria, if the user left any required field empty. The image displays in imageView component.  Use asynchronous task for fast downloading images from flickr api. |
| ***Store Images:***  The app should store following details of a random image searched from Flickr:   * Title * Description * Image | It stores image details to local database with fields: Title, Description and image. |
| ***Exploring saved image information:***  The app should display the stored image information in a tableview component. | The app allows user to display the stored images in tableview format. Each table view cell displays image in image view component and photo title, description in either labels or other suitable components. |