# MediClip

MediClip fills a need in the Health digital market to bridge the gap were hospital systems are mainly terminal based which creates a gap when it comes to the patients that are in beds. Having doctors and nurses being able to view information and add notes to a patients files in the moment with the patient allows for a seamless journey of information around a hospital. The system currently in place can cause lost or inaccurate data because information has to be written down and then converted to the a digital form which creates more work for hospital staff.

# Reference List

## A1

Xamarin Help Website, Adam Pedley, <https://xamarinhelp.com/use-camera-take-photo-xamarin-forms/>, Explanation of how to use the Xam.Plugin.Media package, to have our app use the camera to take photos and store the photos. We modified the provided algorithms to work with our code and had to install various nuget packages to allow for camera permissions.

## A2

Github Repository, James Montemagno, <https://github.com/jamesmontemagno/MediaPlugin>, Algorithms and an explanation of how to use them inside your code to obtain camera functionality. Had to change permission settings so that the application could access the device’s camera and other media. Changed where photos are stored and how their file names are generated.

## A3

Stackoverflow, Jesper Christensen, <https://stackoverflow.com/questions/35862657/disabling-back-button-c-sharp-android-xamarin-code-not-responding>, This algorithm was used to disable the android back button when the user is on the home page, so they don’t accidentally go back to the login page. No adaptions were needed as this was a simple algorithm.

## B1

Author unknown, Lecture slides and lab material, Explanation and pre written algorithms for getting information from an external database using JSON queries through a web API. Had to make changes to the algorithms to work with the API we created, we also changed different aspects to further work with our application e.g. posting and getting lists.

## B2

Stackoverflow, Ademar, <https://stackoverflow.com/questions/9145667/how-to-post-json-to-a-server-using-c>, Explanation and algorithms on how to POST information to our API. We had to make changes adapting the algorithm to work with our API.

## C1

Lab Material, David Cornforth, Week 5 Lab, Explanation and algorithms that allow the application to activate the accelerometer sensor and obtain readings from the sensor. We added a method to the algorithm that would clear a text field when the accelerometers shake reading returned true.

## C2

Source: W3 Schools <https://www.w3.org/TR/accelerometer/>

Below code was adapted from a similar shake check but code had higher values and checked each value individually and returned values instead of bools.

## C3

Source: Xamarin Forum <https://forums.xamarin.com/discussion/25375/datetime-tolocaltime>

Had to create a variable that to call date and time to Name the photo so each photo has a different name dictated by the date and time the photo was taken and the PatientID