**Student Number: x00079931**

**Course: Higher Diploma in Science and Computing**

**Module: Individual Project**

**Iteration 1 Deliverable:**

Pre-iteration:

The objectives for this iteration were as follows:

1. Achieve a solid understanding of the Windows Phone project templates and XAML/code behind framework and MVVM.
2. Build a windows phone application that allows a user to select a key signature and see a list of songs corresponding to their selection
3. Configure the XAML to allow the user to toggle between major and minor key selections using the FlipView tool in the XAML framework. Add appropriate unit tests.

Post-iteration:

Objectives 1 and 2 were achieved.

The user to select a key signature at wish and view a corresponding set of song objects and their corresponding information.

The functionality delivered did not fully meet my pre-iteration goals. Whilst, a user can select a key signature and see its corresponding set of song objects for that key signature, the data had to be hard-coded in a Json file instead of using an Azure mobile service for my data retrieval. For this iteration I managed to source the relevant API needed to complete the final version of my app however I have not begun the process of implementing it into my project.

A lot of time was spent on this iteration coming to terms with the different types of projects and in particular the different elements of the hub app template and the data binding process, static resources, data templates and hub sections to name but a few. While at first my project began using a blank app template, I later changed this to an Azure Mobile Service which allowed me to create a universal app project with a shared folder. However in this iteration, my project is in the form of a hub app template. This was chosen as I felt the template closely matched my app idea’s basic functionality requirements, in terms of the fact that it had individual objects encapsulated into groups identified by a key or in my case a unique key signature. No unit tests have been conducted to date but these will be delivered in the second iteration of the project. I also began looking at using at a backend service that uses table storage instead of an SQL database. This is because I only have current need for one table of non-relational data and thus an SQL database does not seem necessary for my project at this point.