**FantaCode Internship**

**WEEK 5:Report**

**Date: 16/12/2017**

**Tasks**

**Xamarin Forms Styles & Introduction to MVVM in Xamarin Forms**

* Xamarin Forms Styles - <https://www.youtube.com/watch?list=PLpbcUe4chE7-5t2mlamz6yB0qzAfO5Yln&v=yaC0-C942wk>
* MVVM DataBinding - <https://www.youtube.com/watch?list=PLpbcUe4chE7-5t2mlamz6yB0qzAfO5Yln&v=uEn9FlLL5wo>
* MVVM Commands - <https://www.youtube.com/watch?list=PLpbcUe4chE7-5t2mlamz6yB0qzAfO5Yln&v=wmOrD7AcdCY>

Convert the To-Do app created in Week 4 to MVVM pattern.

**Tasks done:**

* Styles- Implemented styles in MainPage.xaml
* Learnt about using MVVM concept through videos by Houssem Dellai and Xamarin forums (MVVM is useful when unit testing needs to be done)

Model - data

View - UI

View model - Logic (should be made public)

Learnt about using commands in MVVM

Learnt about navigating from one page to another using MVVM

* Implemented MVVM concept in the app made in Week 4 (To Do List Application)
* Models : TaskModel
* ViewModels : TaskViewModel and ListViewModel
* Views : MainPage.xaml and ListPageView.xaml
* Uploaded the applications to my git repository :

<https://github.com/liyanafzl/TasksFantacode/tree/master/Week5>

**Problem encountered:**

* <https://forums.xamarin.com/discussion/113218/trouble-while-creating-a-xaml-file-and-not-able-to-compile-project-due-to-that-xaml-file>

Solved: It seems that version 15.5.1 of visual studio 2017 has a lot of issues.

Solved by updating to version 15.5.2

* Tried using same view model for two views.
  + Error : The given key was not present in the dictionary.
  + It worked after using different view models for each view.
* Exceptions occurred:
* When the below line was not included when including navigation from one page to another.

MainPage = new NavigationPage(new MainPage())

* Problems occur when the name using for binding data in view is different from that used in the view model.