

# One Day Intro to XAML - Instructor Outline

The purpose of this document is to provide a the details necessary to guide a classroom of students through a step-by-step lab that creates a UWP app that interacts with a GitHub repository.

## Course Outline

The course is broken into a number of sections:

1. Getting started
  - Discuss
    - Discuss XAML & UWP
    - Where does Xamarin fit in?
      - Code sharing patterns
  - Code
    - Create basic app
2. Implementing Navigation
  - Discuss
    - Design - Fluent
    - Adaptive
    - Styles & Resources
    - OAuth
  - Code
    - Create Shell
    - Update App to launch shell
    - Add nuget:
      - `NavigationView`
    - Implement Simple Pages
      - `HomePage`
      - `CodePage`
      - `IssuesPage`
      - `SettingsPage`
    - Implement basic navigation with `NavigationView`
3. Implementing MVVM, Settings, etc.
  - Discuss
    - MVVM & INPC
    - Services
  - Code
    - Add nuget:
      - `XamlU.Demo.GitHubLibrary`
      - `MVVMLightLibs`
        - Explain differences between the MVVMLight packages
    - Add Services
      - `SettingsService`
      - `GitHubService`
    - Add `HomePageViewModel`
    - Add view model binding to `HomePage.xaml.cs`
    - Move Auth into `HomePageViewModel`
4. Issues, Master/Detail, Pivot for Issues
  - Discuss
    - Libraries
    - Microsoft UWP Community Toolkit
  - Code
    - Complete `IssuesPage`
    - Complete `IssuesPageViewModel`
5. Messaging and Commanding
  - Discuss
    - Messaging
    - Commanding
  - Code
    - Use message to enable/disable navigation when not logged in
    - Context menu / slide control for an issue

We have services here before we discuss them. May need to think about this some more... \* Add Services \* `GitHubService` \* Implement login in code-behind `HomePage.xaml.cs` \* Copy in and explain UI \* Copy in and explain code-behind

Is this still relevant given the changes?

6. Data entry and field/form validation
  - Discuss
    - What is validation and why do we need it?
    - What support for validation ships in UWP?
    - JSON, REST and WebClient

Show the source for the `GitHubClient`? \* Code \* Add `CreateCommentPage` \* Add `CreateCommentPageViewModel` \* Add button to `IssuesPage` to launch the `CreateCommentPage` and hook up navigation > Discuss the system back button...
7. Additional topics
  - Telemetry
  - Deployment

- Regular Store
- Business Store
- Side-loading
- Beta distribution
- Inking
- Composition UI
- Desktop Bridge
- Controls
- Template Studio