

WinPlex

B.Sc. - Bachelor of Science

Contents

Subject
Grading Scale

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1. WinPlex

1.1. Context

This Coursework is based on a case study:

You are working for a created company based in France called Winplex, a software-development company. They've been developing iPhone and Android applications for years, but now they want to also develop Windows 10 Universal Applications.

For an upcoming salon, the company wants to showcase their talent at creating cool and innovative apps for the Windows 10 platform and has challenged all employees including YOU! You need to create a showcase app and the best apps will be selected for the salon. The employees who got their app selected will be rewarded.

1.2. What's expected

Winplex wants you to use your imagination and creativity to create an original and innovative Windows Universal Application. You can choose to develop your application with UWP or Xamarin.

Your project will be challenged on five categories:

- Internet: Internet Access, Network Management and Data Serialization
- Mobility: Device orientation, Visual State re-architecture and Device Families
- Persistence: Lifecycle Management and Local /Roaming Data Storage
- Interactivity: Background Tasks, Notifications and Live Tiles
- Geolocation: Location Sensors usage (Magnetometer, Compass, ...), Bing Maps API

For each category, your implementation quality will be based on three criteria:

- Implementation complexity (Were the features hard to develop?) - From 0 to 2 points
- Implementation relevance (Does this features make any sense in the application as a whole?) - From 0 to 1.5 points
- Implementation stability (Does it work?) - From 0 to 1.5 points

Besides these categories, your application will also be considered on:

- UI and UX - From 0 to 1 point
- Code quality and conventions - From 0 to 2 points
- An App description (as in any Application Store) - From 0 to 2 points.



Note

Note: Your description will be delivered as a PDF lying in the root folder of your application.

Your goal is to create an application that embraces one or more of these categories, and is coherent as a whole. Your mark will be the sum of every earned points in all categories. As a result, the maximum obtainable mark is 30/20.

1.3. What you need to do/know

1.3.1. Understand Client Need

Before you start, make sure you've understood the client's needs and have thought the project out. Write stuff down, draw schemas if you need to.

THINK SIMPLE! DO NOT GO OUT OF YOUR WAY IN COMPLEXITY.

1.3.2. A little help

The MSDN is a very well-documented encyclopedia with lots of code and examples.

1.3.3. A Quick Reminder

N.B: Looking something up on Google is not copying and pasting code. Read, understand, and do your own version according to your needs. Copy-pasting will be considered as cheating and stealing.

1.4. Evaluation

1.4.1. No cheating

This is an individual project, therefore you are not allowed to host your project online, use someone else's code, copy and paste code from the internet. If someone is caught cheating, he will receive a 0 mark and be marked as cheater.

1.4.2. Grading Scale

- Internet: Complexity (2 points)
- Internet: Relevance (1.5 points)
- Internet: Stability (1.5 points)
- Mobility: Complexity (2 points)
- Mobility: Relevance (1.5 points)

- Mobility: Stability (1.5 points)
- Persistence: Complexity (2 points)
- Persistence: Relevance (1.5 points)
- Persistence: Stability (1.5 points)
- Interactivity: Complexity (2 points)
- Interactivity: Relevance (1.5 points)
- Interactivity: Stability (1.5 points)
- Geolocation: Complexity (2 points)
- Geolocation: Relevance (1.5 points)
- Geolocation: Stability (1.5 points)
- UI and UX (1 point)
- Code Quality and Conventions (2 point)
- App description (2 point)