	Week 1 Immersion			
Technologies	Concepts	Instruction		
NET Architectural Components	Repo : Repository	git init		
.NET Core	Entity Framework : SQL – Structured Query Language	git add		
.NET Standard	DB – Database	git commit		
.NET Framework	ORM – Object Relational Mapping	git branch		
.NET Runtime	HTML: HyperText MarkUp Language	git remote		
ASP.NET Core : Active Server Pages	CSS: Cascading Style Sheets	git push		
UWP : Universal Windows Platform	JS: JavaScript git pull			
Mono	SDLC: Software Development Life Cycle git clone			
Xamarin	DevOps: Development Operations			
Docker	SDK : Software Development Kit			
Azure Cloud	API: Application Programming Interface			
Apis	SOAP: Simple Object Access Protocol			
TypeScript	REST: Representational State Transfer rm			
Angular	XML: Extended Markup Language	mkdir		
gitBash	JSON: JavaScript Object Notation	touch		
DotNet	microservices /c/			
VIM	orchestration	, 3,		
Nano	Kubernetes			
NuGet	Source Code			
xUnit	IL: Intermediate Language			
XOTIIC	Virtual Machine			
	CLI: Common Language Infrastructure			
	IDE: Integrated Development Environment			
	OOP: Object Oriented Programming'			
	CLR: Common Language Runtime			
	CIL: Common Intermediate Language			
	MSIL: MicroSoft Intermediate Language			
	Compiler (Roslyn C#)			
	Machine Code Native Instructions			
	Absolute Path			
	Relative Path			
	VCS: Version Control System			
	SCM: Source Code Management			
	Interfaces			
	Exception Handling with TryCatchFinallyThrow			
	Struct: User-Defined Structures			
	Polymorphism – 4 Pillars of OOP			
	Inheritance – 4 Pillars of OOP			

Sheet1 Encapsulation – 4 Pillars of OOP Abstraction – 4 Pillars of OOP Abrstract Class Access Modifiers (Public, Private, Protected, Internal, Protected Internal, Private Protected) Parameter Modifiers (Out, Params, In, Ref) Other Modifiers: (Abstract, Const, ReadOnly, Static, Virtual) Single Responsibility Principle (Solid) Open Close Principle (Solid) Liskov Substitution Principle (Solid) Interface Segregation Principle (Solid) Dependency Inversion Principle (Solid) Co-Variance & Contra-Variance MVC: Model, View, Controller & UE: User Experience with UA: User Application Casting Type Conversion Serialization File I/O: Input/Output Logging TDD: Test Driven Development Method Hiding Overloading Overriding Class Instantiation Objects Members Accessibility Local Variables Methods - Static & Instance Class – Value & Reference Parameters Static Void Null Boolean Numbers – Int, Float, Decimal String & string.empty Class – Type Parameters Class – Base Classes DVCS (Distributed VCS)

CVCS (Centralized Version Control System)

Namespaces

Project, Build Assembly, Solution Casting – Up & Down Garbage Collector Stack Неар Queqe Code Blocks Instruction Using Primitive DataTypes Reference Type Enumerators CLS: Common Language Specification CTS: Common Type System JIT: Just In-Time Compiler VES: Virtual Execution System Semantic Code – Comments Type Conversion Implicit Conversion TypeOf Usage Errors, Program Errors, System Failures Custom Exceptions, User-Defined Exceptions Collections (Array, List, Linked List, Map) Adjacent Memory for Collections (Array, List)

Pointer Memory for Collections [{List (Linked), Dictionary – Map (Key/Value Pair)]

Runtime – Breakpoints

Пополитор	Tooks	Deferen	
Resource	Tasks		ce Manuals
Slack.com	gitBash Exercise in Slack	VIM	https://www.openvim.com/
VS Code	C# Hello World in Revature Pro	VIM	https://vimhelp.org/
Visual Studio 2019	GitHub Repository	gitBash	https://www.educative.io/blog/bash-shell-command-cheat-sheet
gitBash	HackerRank https://www.hackerrank.com/2102netnickweek1	gitBash	http://kgarofali.github.io/Pre-MAP//docs/UnixHandout.pdf
GitHub.com	C# Reading of Particular Topics in Slack	DotNet	https://docs.microsoft.com/en-us/dotnet/core/introduction
HackerRank.com	C# Rock, Paper, Scissors	C#	https://docs.microsoft.com/en-us/dotnet/csharp/tutorials/intro-to-csharp/local-en-
Discord.com	Unit Testing Reading in Slack	C#	https://docs.microsoft.com/en-us/dotnet/csharp/tour-of-csharp/
C#	C# RoundTable xUnit Testing	Git	https://learngitbranching.js.org/
		Git	https://stackoverflow.com/questions/1274057/how-to-make-git-forget-about-a-file
		VCS	https://guides.github.com/introduction/git-handbook/
		C#	https://docs.microsoft.com/en-us/dotnet/csharp/properties
		C#	https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/concepts/co
		C#	https://www.youtube.com/watch?v=q1nQILMqAXA
		.NET	https://docs.microsoft.com/en-us/dotnet/core/testing/
		.NET	https://docs.microsoft.com/en-us/dotnet/core/testing/unit-testing-with-dotnet-test
		.NET	https://xunit.net/
		.NET	https://xunit.net/docs/getting-started/netfx/visual-studio
		C#	https://stackoverflow.com/questions/614818/in-c-what-is-the-difference-between
		C#	https://docs.microsoft.com/en-us/dotnet/core/testing/unit-testing-best-practices
		C#	https://www.youtube.com/watch?v=ub3P8c87cwk
		TDD	https://devig.com/practices/test-driven-development
		C#	https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/concepts/co

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