Machine and Environment Setup

.NET CORE

“Failure is central to engineering. Every single calculation that an engineer makes is a failure calculation. Successful engineering is all about understanding how things break or fail”

– Henry Petroski

Contents

Chat Platform – Slack. This is where we will collaborate and organize.

Code Editor – Visual Studio Code and Visual Studio. This is where we will create and test code.

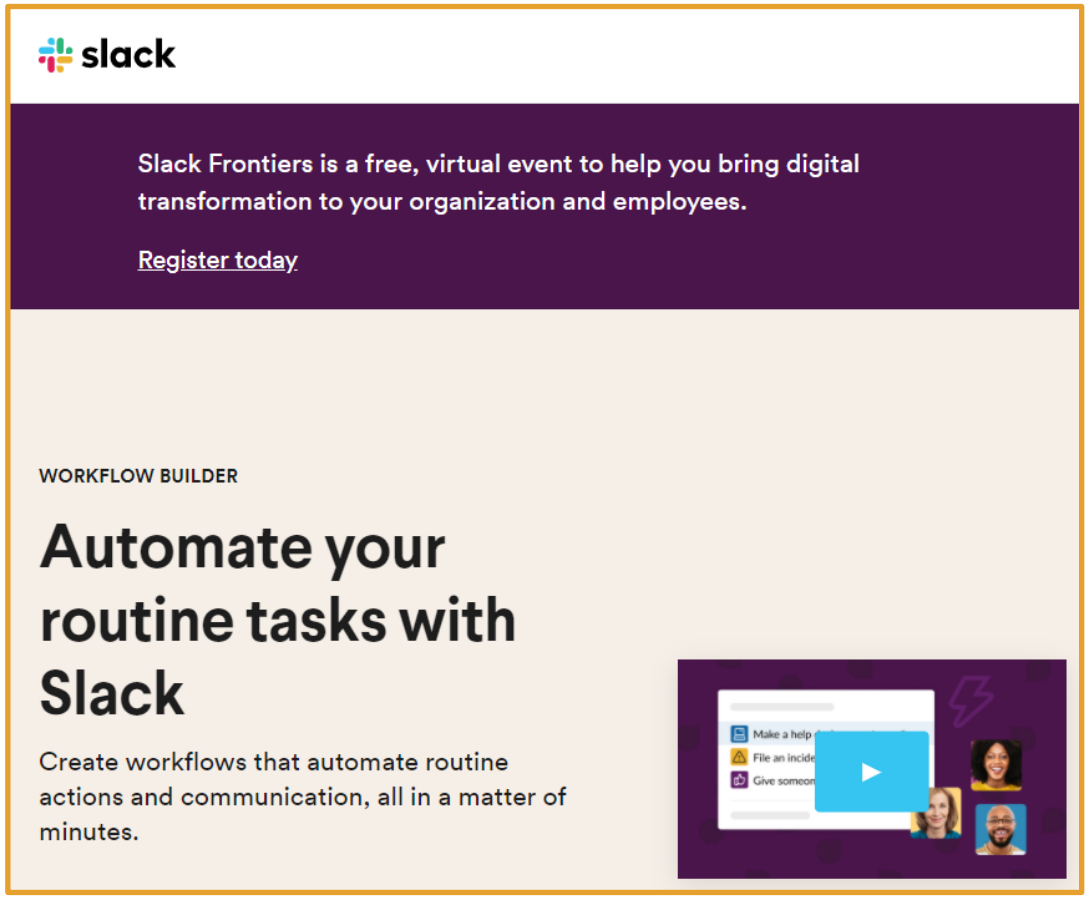
SDK (Software Development Kit) – This is the suite of programs that we download that enables us to create, edit, and test code.

Version Control – GitHub. This is where we wi ll store our documents and code, record changes, and control which version of our code we use.

Chat Platform – Slack

https://slack.com/

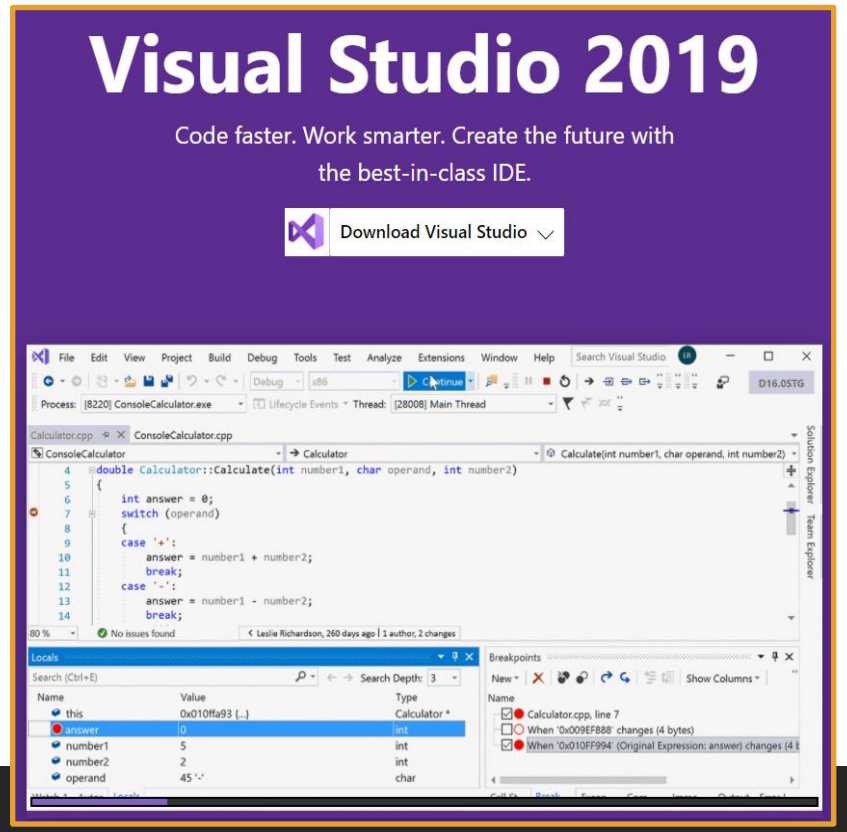
1. Download Slack to PC and phone
2. Each associate is responsible for maintaining contact and being up to date on messages on Slack. Especially during 9-5 (CST) hours.
3. Get everyone into the Class workspace. Messages disappear after a few days so copy/download what you want to keep.



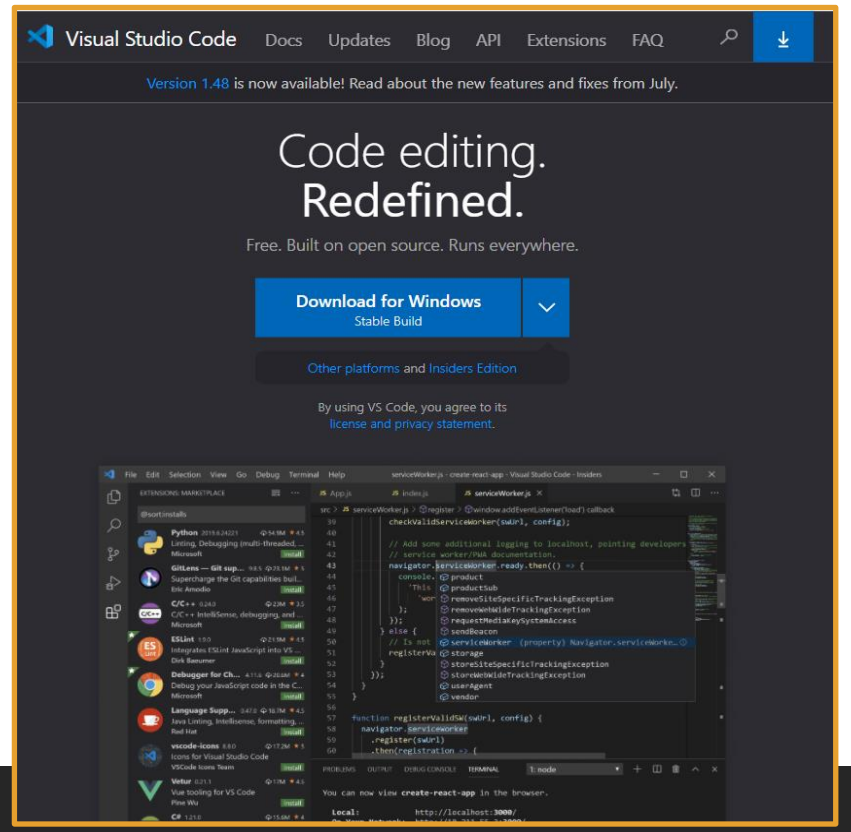
Code Editor – Visual Studio

https://visualstudio.microsoft.com/vs/
https://dotnet.microsoft.com/download
https://code.visualstudio.com/

Visual Studio



VS Code



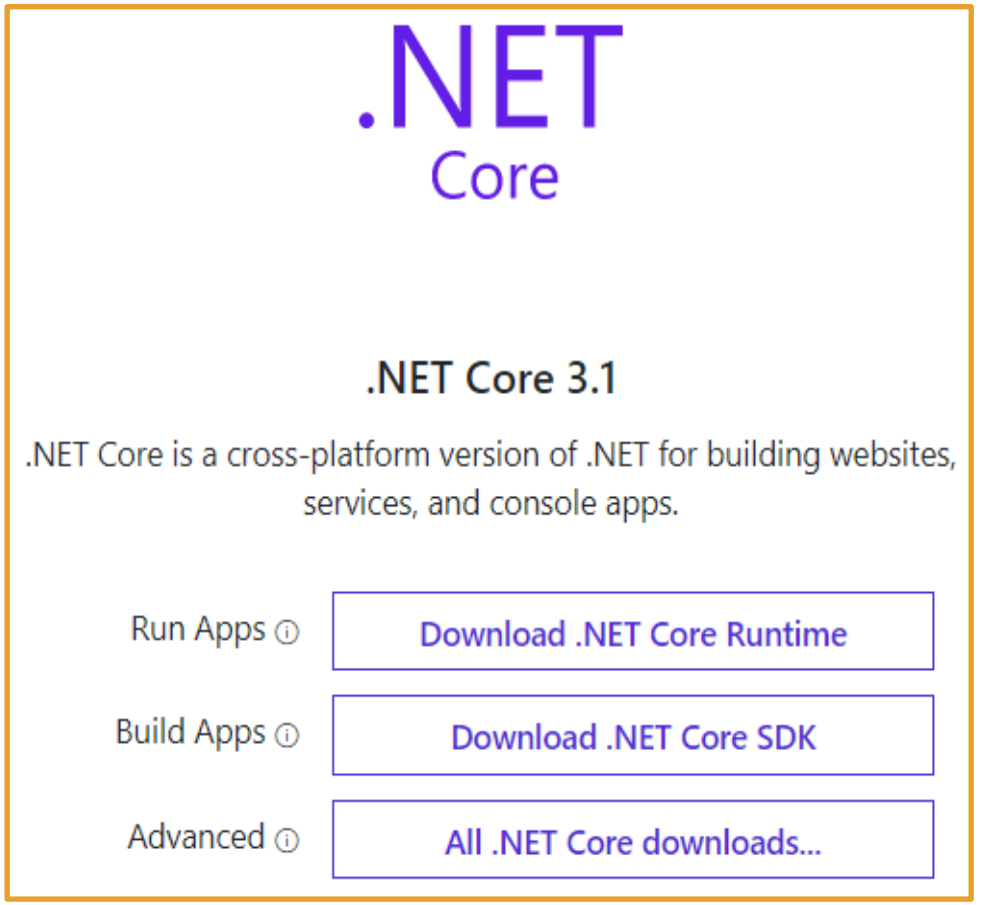
SDK (Software Development Kit)

https://en.wikipedia.org/wiki/Software_development_kit#:~:text=

A ***Software Development Kit*** *(**SDK**)* is a collection of software development tools in one installable package. They have compiler, debugger and perhaps a software framework. They are normally specific to a hardware platform and operating system combination.

- An ***SDK*** is required for developing a platform-specific app.
- The development of an Android app on Java platform requires a Java Development Kit.
- For iOS applications (apps) the iOS SDK is required.
- For Universal Windows Platform (UWP) the .NET Framework SDK is used.

Some ***SDK***s add additional features and can be installed in apps to provide analytics, data about application activity, and monetization options.



gitBash

https://gitforwindows.org/

1. ***Git for Windows*** focuses on offering a lightweight, native set of tools that bring the full feature set of the Git SCM to Windows while providing appropriate user interfaces for experienced Git users and novices alike.
2. Go to https://gitforwindows.org/

Version Control – GITHUB.COM

https://gitforwindows.org/

1. Open Command Line (Terminal). Run 'git –version'.
2. Accept your invite to the class repo.
3. On the class repo, create a personal Repo of the format 'MooreMark'.
4. Clone your remote repo from your local gitBash.
5. Create a text doc in your cloned repo folder.
6. Push a simple text doc.
   - git add .
   - git commit –m "message to self"
   - git push
   - Create new upstream branch, if necessary.
   - Verify it worked by looking at your account online.

Basic Git Life Cycle

https://education.github.com/git-cheat-sheet-education.pdf

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1. git clone [url] or git pull from master branch.
2. git checkout –b [branchName] (Create a new “feature” branch and switch to it.)
3. Make changes to add a feature.
4. git add . (Add all changes made to tracking)
5. git commit –m “This message tells what the changes are” (Add to staging)
6. git pull (to be 100% sure no changes were made to the master branch while you were working)
7. git push
8. Go online and make a pull request (PR) to master.

Simple (NO-CONFLICTS) Github Workflow