

1. First install your desired IDE (visual studio code for node.js)
2. Go to gitforwindows.org ... and install. While installing, set your IDE as default editor (you will have an option as visual studio, notepad..etc.).
3. Create a folder where the project will reside. (ex: projects/Soen341) Do not create the Insta-like project folder manually.
4. Open the git Bash (what you just installed).
5. You need to connect to your git account using:

```
$ git config --global user.name "yournamehere"
```

and

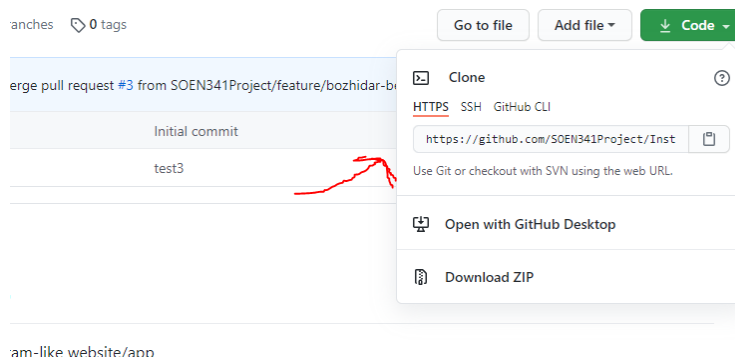
```
$ git config --global user.email "emailhere"
```

It will provide you with a link. Make sure you open the link with chrome (I had trouble with edge) and enter your email and pass.

6. The images at the end are an example of the steps that will follow.
7. Use the command `$ pwd` to find where you are located (if needed).
8. To change your current location, copy the address of your project folder from your address bar and use:

```
$ cd WithYourAddressPastedHere
```

9. Then, you can clone the main branch by going on GitHub and getting the link from:



Then:

```
$ git clone PasteTheLinkHere.
```

10. To list the subfolder of your current location use: `$ ls`
11. `$ cd Insta-like/`
12. To create your own branch use: `$ git checkout -b 'theNameOfYourBranch'`

I suggest using feature/yourFirstName-be for backend or fe for frontend

13. This will also switch you to your branch.
14. Now if you open a file from your branch's folder and change something, you can see the status of your branch changes with: `$ git status`
15. Now you need to add those changes before committing: `$ add TheNameOfTheModifiedFile`

16. `$ git commit -m 'add the message that explains a bit what you did'`
17. Now you need to push the changes to your branch on GitHub use: `$ git push origin TheNameOfYourBranch`
18. This will let you create a merge request to the main on GitHub. To do so go on GitHub and you will see that there is a file available to merge. If you request a merge, you will see the modification in comparison to the current main and if there are conflict and will let you select how to resolve them (which lines to keep and which to override).
19. Before you continue with modifying anything else you ALWAYS HAVE TO BEGIN WITH A NEW FETCH FROM THE MAIN.
20. Switch to your local main by: `$ git checkout main`
21. Fetch the main: `$ git fetch`
22. And pull: `$ git pull`
23. Then switch to you branch: `$ git checkout YourBranchNameHere (local)`
24. And merge the main to your branch (local main to local branch): `$ git merge main` (this means merge the main here, your local branch).
25. There are some other useful features like putting your work temporary on a shelf, then fetching and pulling the main and then taking what was on the shelf and merging it on top of your newly pulled and fetch main then resolve any conflicts. This is used if you start working and notice that your main is not up to date and you want to make it up to date but not lose your work.
26. `$ git stash`
27. `$ git stash pop`
28. It will ask you how to resolve any conflicts.
29. IMPORTANT if you stash something on top of your stash, it will override it.

```

1@DESKTOP-VG1PK56 MINGW64 /usr
$ cd ~

1@DESKTOP-VG1PK56 MINGW64 ~
$ twd
bash: twd: command not found

1@DESKTOP-VG1PK56 MINGW64 ~
$ pwd
/c/Users/bgtou

1@DESKTOP-VG1PK56 MINGW64 ~
$ cd /e/Programs/project/SOEN341

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341
$ pdw
bash: pdw: command not found

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341
$ pwd
/e/Programs/project/SOEN341

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341
$ git clone https://github.com/SOEN341Project/Insta-like.git
Cloning into 'Insta-like'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341
$ ls
Insta-like/

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341
$ cd Insta-like/

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (main)
$ git checkout -b 'feature/bozhidar-be'
Switched to a new branch 'feature/bozhidar-be'

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git status
On branch feature/bozhidar-be
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git add README.md

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git status
On branch feature/bozhidar-be
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git commit -m 'modified readme for testing'
[feature/bozhidar-be 08f02b0] modified readme for testing
1 file changed, 2 insertions(+)

```

30.

```

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341
$ ls
Insta-like/

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341
$ cd Insta-like/

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (main)
$ git checkout -b 'feature/bozhidar-be'
Switched to a new branch 'feature/bozhidar-be'

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git status
On branch feature/bozhidar-be
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git add README.md

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git status
On branch feature/bozhidar-be
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git commit -m 'modified readme for testing'
[feature/bozhidar-be 08f02b0] modified readme for testing
1 file changed, 2 insertions(+)

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git status
On branch feature/bozhidar-be
nothing to commit, working tree clean

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git push
fatal: The current branch feature/bozhidar-be has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature/bozhidar-be

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git push origin ^C

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git push origin feature/bozhidar-be
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 385 bytes | 385.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature/bozhidar-be' on GitHub by visiting:
remote:   https://github.com/SOEN341Project/Insta-like/pull/new/feature/bozhidar-be
remote:
To https://github.com/SOEN341Project/Insta-like.git
 * [new branch]      feature/bozhidar-be -> feature/bozhidar-be

1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ |

```

```
$ history
1 git
2 git config --global user.name "BozhidarLeshev"
3 git config --global user.email "bozhidar.leshev@gmail.com"
4 git clone https://github.com/SOEN341Project/Insta-like.git
5 pwd
6 ls -l
7 cd ../..
8 cd ..
9 ls -l
10 cd usr
11 ls -l
12 cd ~
13 twd
14 pwd
15 cd /e/Programs/project/SOEN341
16 pwd
17 pwd
18 git clone https://github.com/SOEN341Project/Insta-like.git
19 ls
20 cd Insta-like/
21 git checkout -b 'feature/bozhidar-be'
22 git status
23 git add README.md
24 git status
25 git commit -m 'modified readme for testing'
26 git status
27 git push
28 git push origin feature/bozhidar-be
29 history
```

```
1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ history | grep 'checkout'
21 git checkout -b 'feature/bozhidar-be'
30 history | grep 'checkout'
```

```
1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (main)
$ git fetch
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 652 bytes | 130.00 KiB/s, done.
From https://github.com/SOEN341Project/Insta-like
e89b086..05016c7 main -> origin/main
```

```
1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (main)
$ git pull
Updating e89b086..05016c7
Fast-forward
 README.md | 2 ++
1 file changed, 2 insertions(+)
```

```
1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (main)
$ git checkout feature/bozhidar-be
Switched to branch 'feature/bozhidar-be'
```

```
1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ git merge main
Updating 08f02b0..05016c7
Fast-forward
```

```
1@DESKTOP-VG1PK56 MINGW64 /e/Programs/project/SOEN341/Insta-like (feature/bozhidar-be)
$ |
```