



# GITHUB

SOCIAL CODING

## ABSTRACT

**GitHub** is a web-based Git repository hosting service, which offers all of the Distributed revision control and source code management (SCM) functionality of Git as well as adding its own features. Unlike Git, which is strictly a command-line tool, GitHub provides a web-based graphical interface and desktop as well as mobile integration. It also provides access control and several collaboration features such as wikis, task management, and bug tracking and feature requests for every project.

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**Phanindhar Repala - 12414**

**Rohini Mukkala - 10517**

**CS595(A) - Computer Science Capstone Course**

## What is Git?

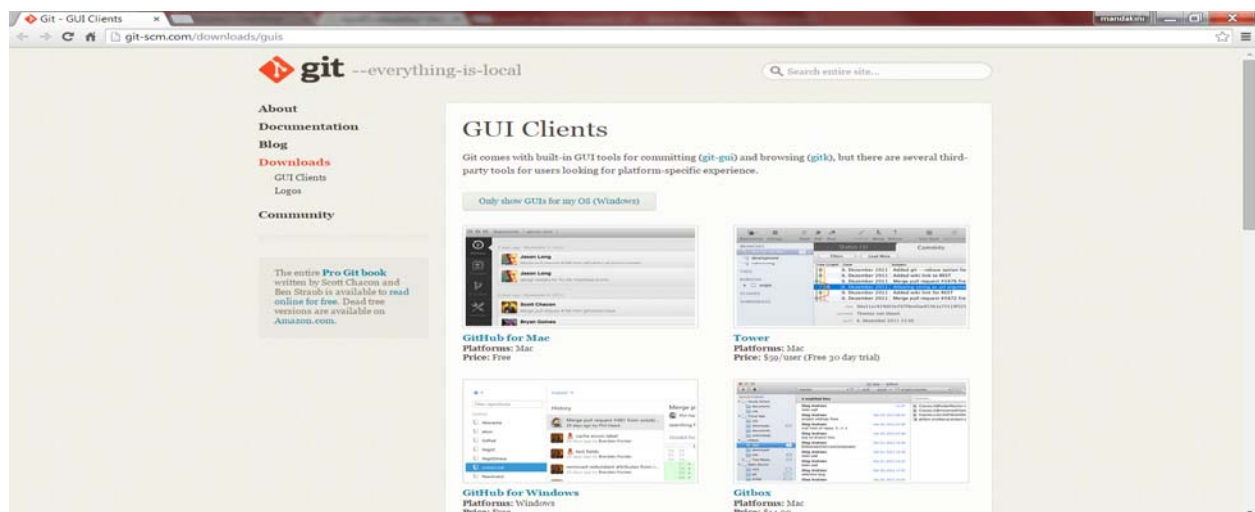


## What is GitHub?

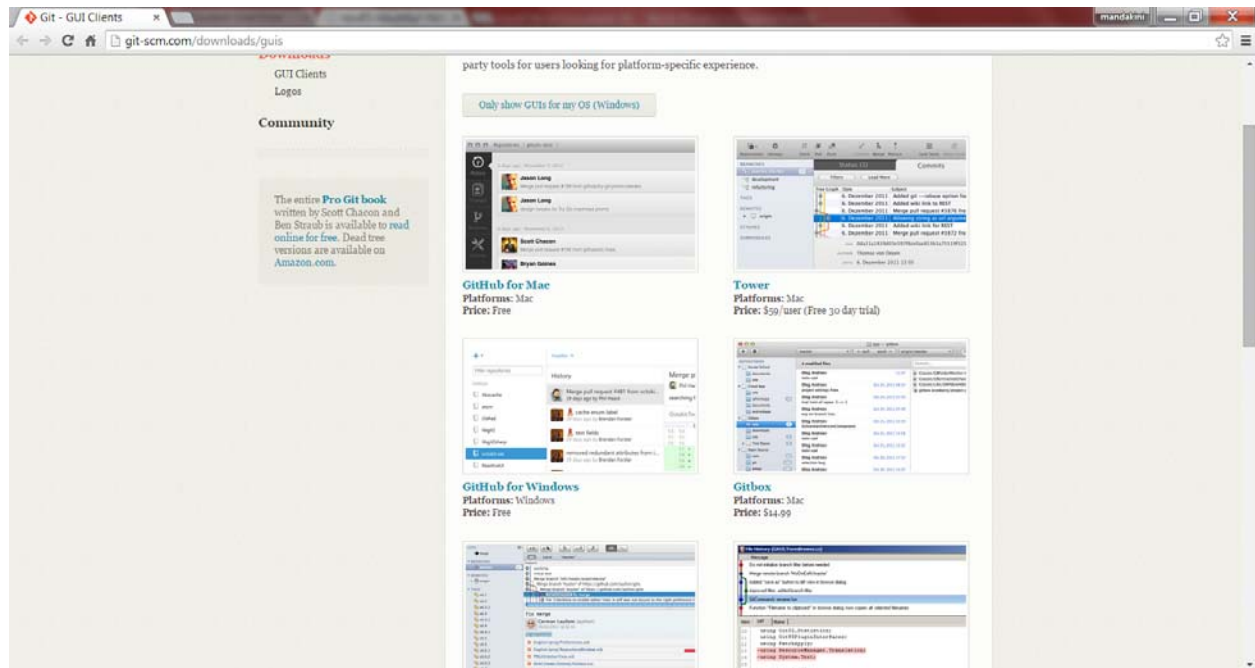
**GitHub** is a web-based Git repository hosting service, which offers all of the distributed revision control and source code management (SCM) functionality of Git as well as adding its own features.

## Git Downloads

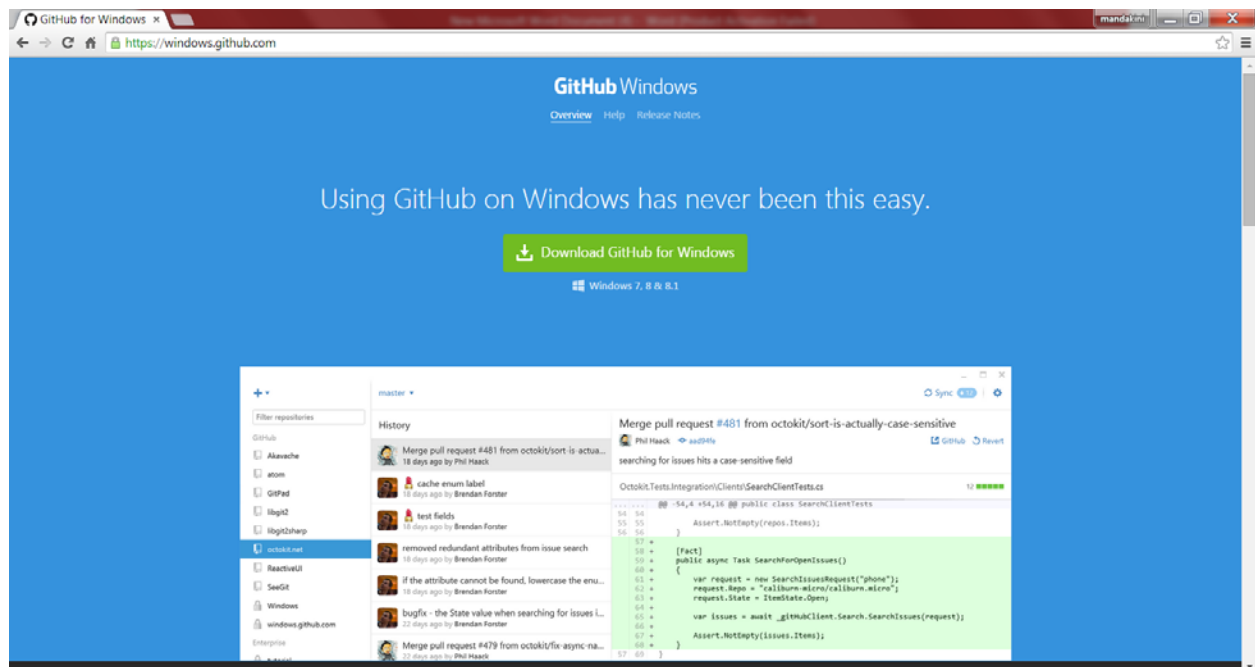
<http://git-scm.com/downloads/guis>



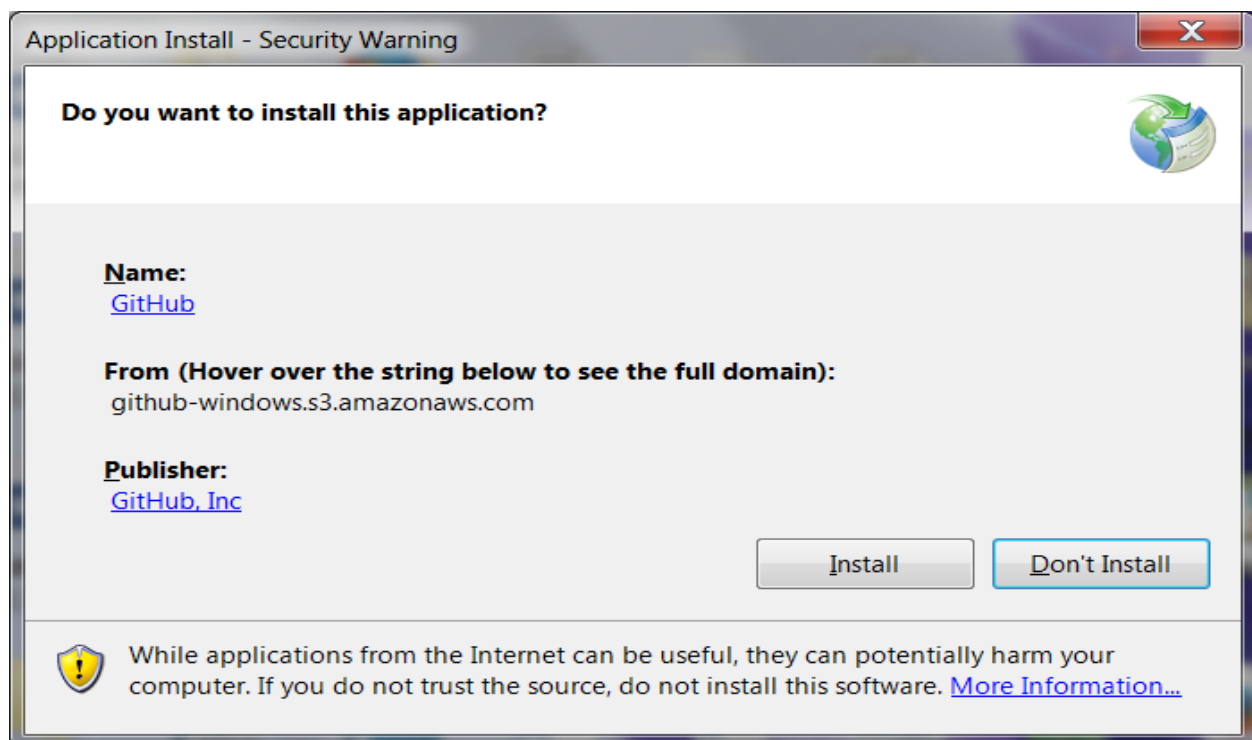
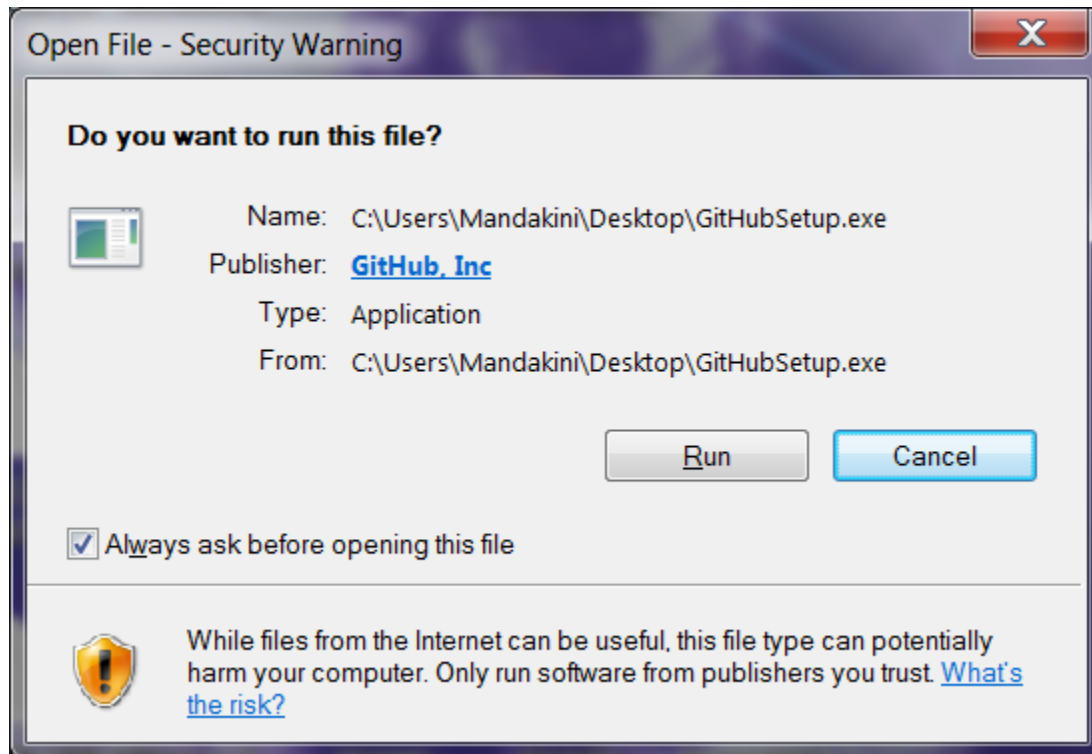
## GitHub for Windows:

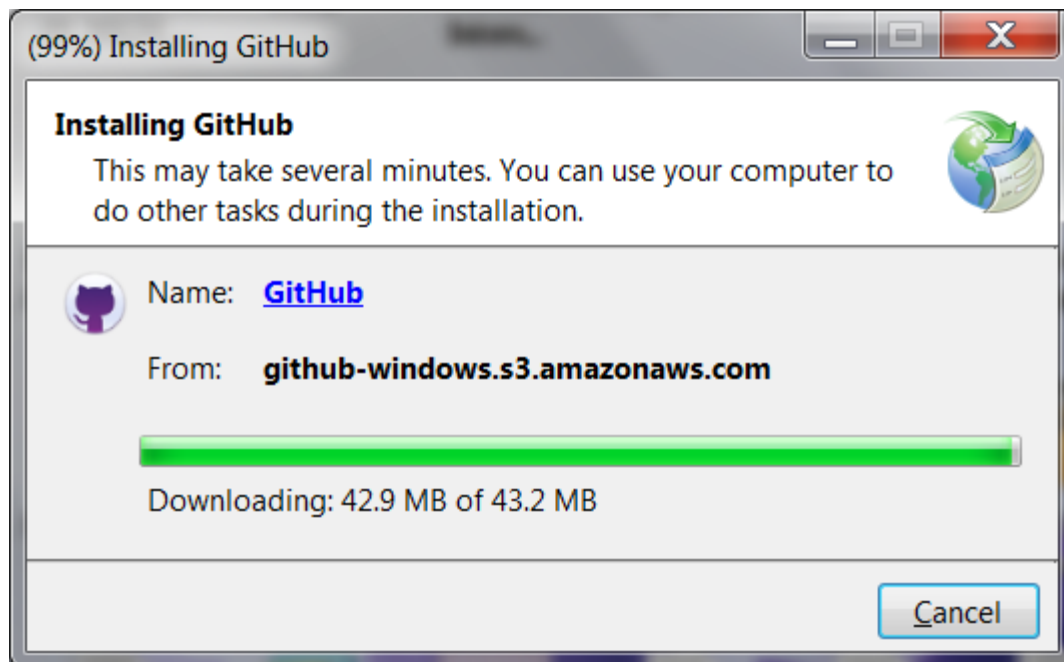


<https://windows.github.com/>



## GitHub Setup





## Sign up to GitHub

GitHub - Build software better... x

GitHub, Inc. (US) | https://github.com/pricing

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GitHub Search GitHub Explore Features Enterprise Blog Sign up Sign in

### Plans and pricing

GitHub is free to use for public projects. Collaborate on private repositories with any of our paid plans.

Sign up now

#### Personal plans

For individuals looking to share their own projects and collaborate with others.

	Free \$0/month	Micro \$7/month	Small \$12/month	Medium \$22/month	Large \$50/month
Collaborators	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Public repositories	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Private repositories	0	5	10	20	50

Join GitHub · GitHub


GitHub, Inc. (US) | <https://github.com/join>


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**GitHub** Explore Features Enterprise Blog [Sign in](#)

# Join GitHub

The best way to design, build, and ship software.

 **Step 1:**  
Set up a personal account

 **Step 2:**  
Choose your plan

 **Step 3:**  
Go to your dashboard

## Create your personal account

**Username**

CS595A-Team2 ✓

This will be your username — you can enter your organization's username next.

**Email Address**

mandakini.saranu@gmail.com ✓

You will occasionally receive account related emails. We promise not to share your email with anyone.

**Password**

**You'll love GitHub**

- Unlimited collaborators
- Unlimited public repositories
- ✓ Great communication
- ✓ Friction-less development
- ✓ Open source community

Join GitHub · GitHub

GitHub, Inc. (US) | <https://github.com/join>

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**Email Address**

mandakini.saranu@gmail.com ✓

You will occasionally receive account related emails. We promise not to share your email with anyone.

**Password**

•••••••• ✓

Use at least one lowercase letter, one numeral, and seven characters.

**Confirm your password**

••••••••

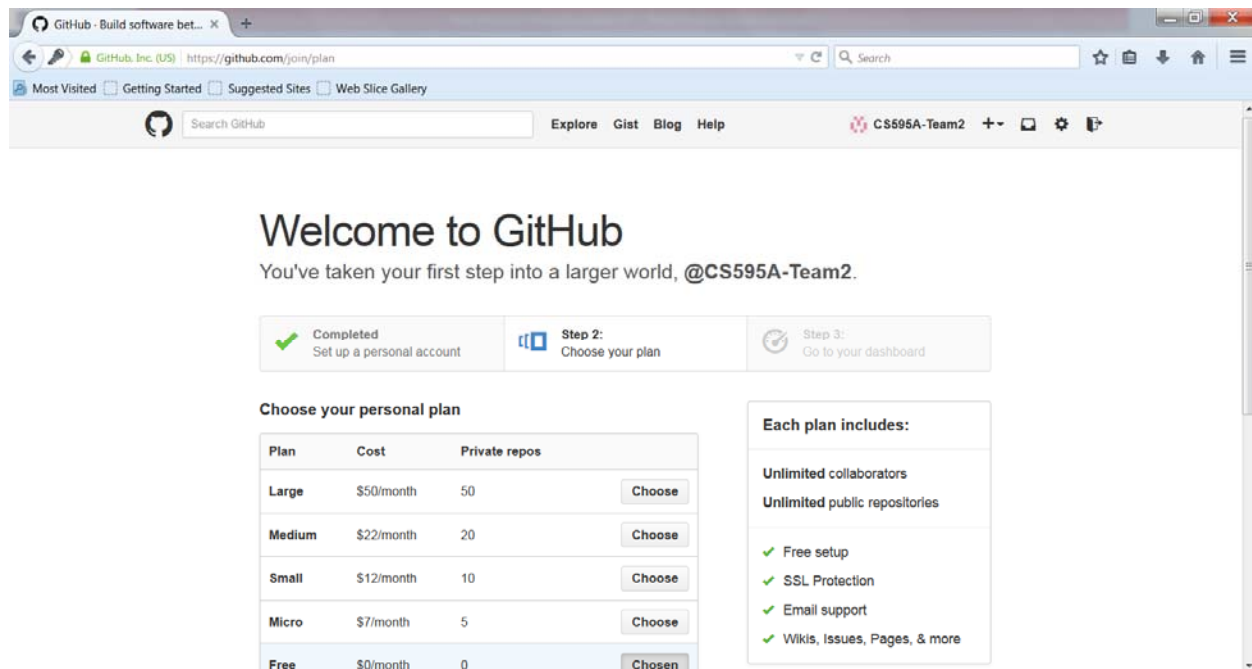
By clicking on "Create an account" below, you are agreeing to the [Terms of Service](#) and the [Privacy Policy](#).

[Create an account](#)

**You'll love GitHub**

- Unlimited collaborators
- Unlimited public repositories
- ✓ Great communication
- ✓ Friction-less development
- ✓ Open source community

GitHub offers both paid plans for private repositories and free accounts, which are usually used to host open-source software projects. As of 2014, GitHub reports having over 3.4 million users and with 16.7 million repositories making it the largest code host in the world.



The screenshot shows the GitHub 'Join/Plan' page. At the top, there's a navigation bar with the GitHub logo, a search bar, and links for 'Explore', 'Gist', 'Blog', and 'Help'. Below the navigation bar, the main heading is 'Welcome to GitHub' followed by the message 'You've taken your first step into a larger world, @CS595A-Team2.'.

Below the welcome message, there are three steps in a progress bar:

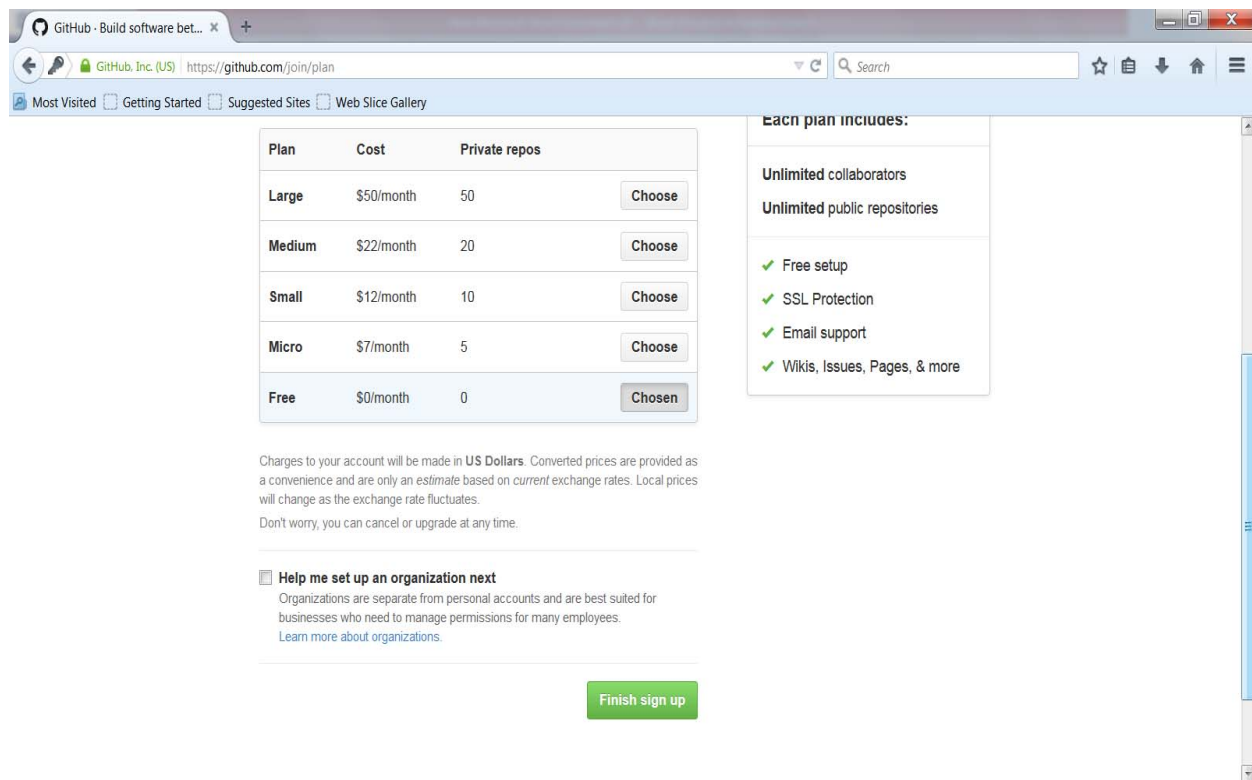
- Step 1: Completed (Set up a personal account)
- Step 2: Choose your plan (Current step)
- Step 3: Go to your dashboard

The 'Choose your personal plan' section features a table with the following data:

Plan	Cost	Private repos	
Large	\$50/month	50	<a href="#">Choose</a>
Medium	\$22/month	20	<a href="#">Choose</a>
Small	\$12/month	10	<a href="#">Choose</a>
Micro	\$7/month	5	<a href="#">Choose</a>
Free	\$0/month	0	<a href="#">Chosen</a>

To the right of the table, under the heading 'Each plan includes:', the following features are listed:

- Unlimited collaborators
- Unlimited public repositories
- Free setup
- SSL Protection
- Email support
- Wikis, Issues, Pages, & more



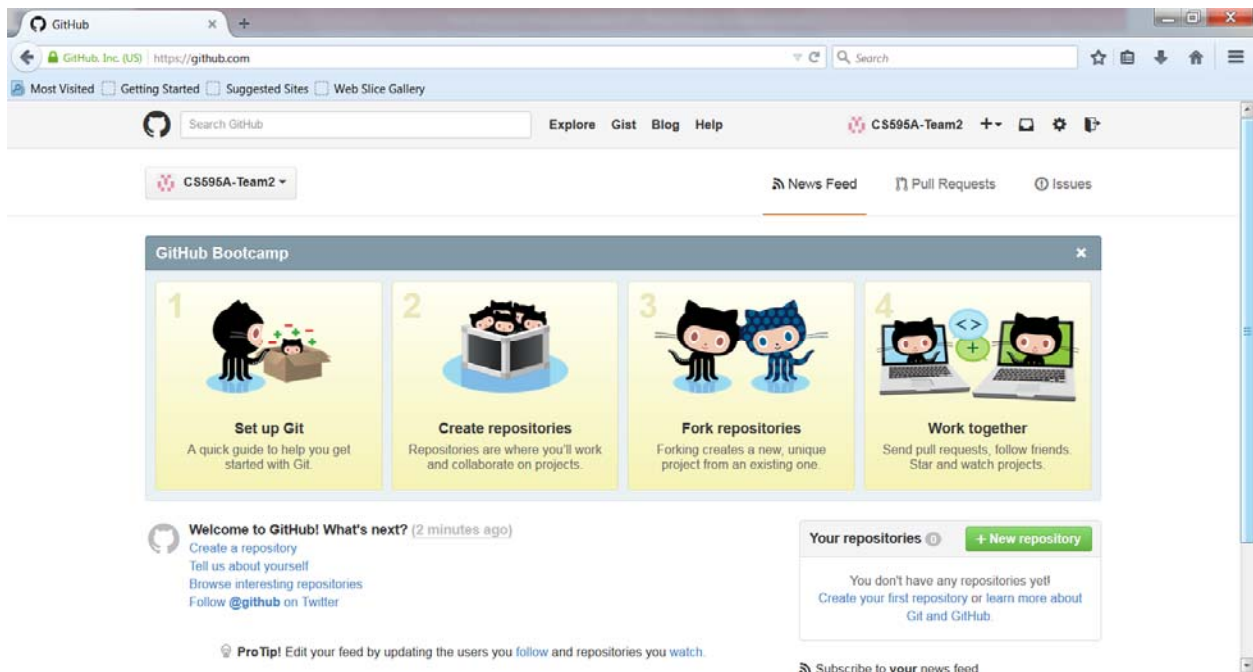
This screenshot shows the same 'Choose your personal plan' section as the previous one, but with additional information at the bottom. The table and plan details remain the same.

Below the table, there is a disclaimer: 'Charges to your account will be made in US Dollars. Converted prices are provided as a convenience and are only an estimate based on current exchange rates. Local prices will change as the exchange rate fluctuates. Don't worry, you can cancel or upgrade at any time.'

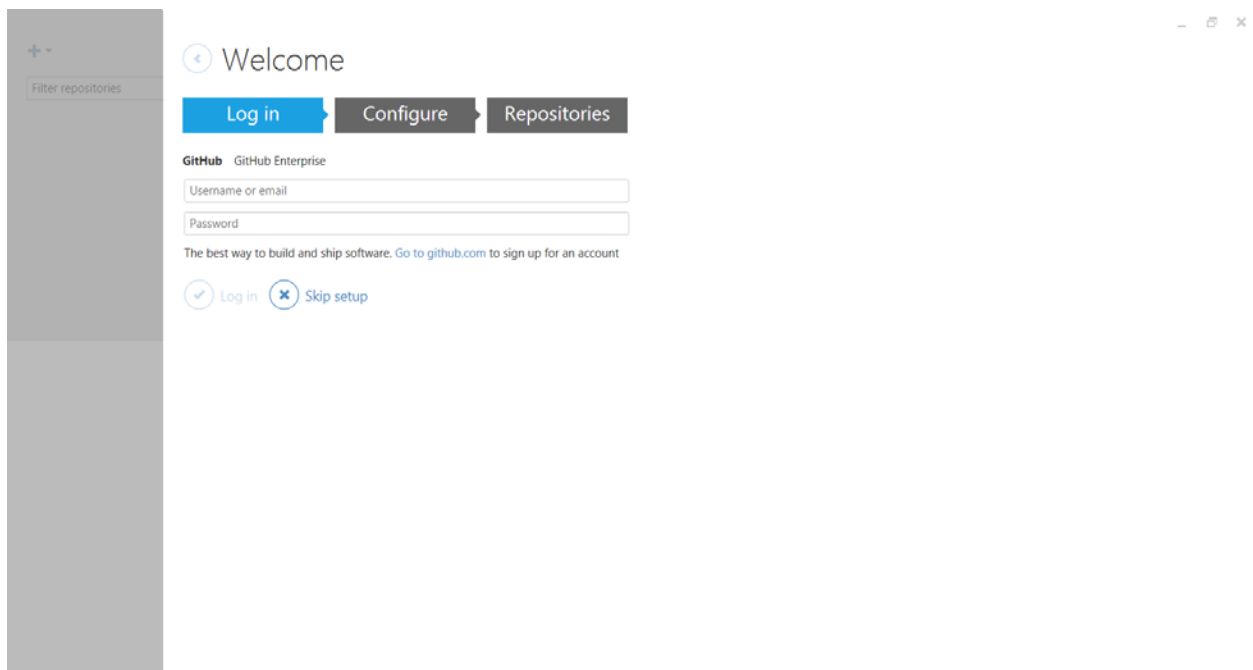
Below the disclaimer, there is a section titled 'Help me set up an organization next' with the following text: 'Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees. Learn more about organizations.'

At the bottom right, there is a green button labeled 'Finish sign up'.





## GitHub Log in





+ -

Filter repositories

Welcome

Log in

Configure

Repositories

GitHub

GitHub Enterprise

CS995A-Team2

\*\*\*\*\*

The best way to build and ship software. Go to [github.com](https://github.com) to sign up for an account

☒ Log in

☐ Skip setup

## Configuring Git

+ -

Filter repositories

Welcome

Log in

Configure

Repositories

Configure git

CS995A-Team2

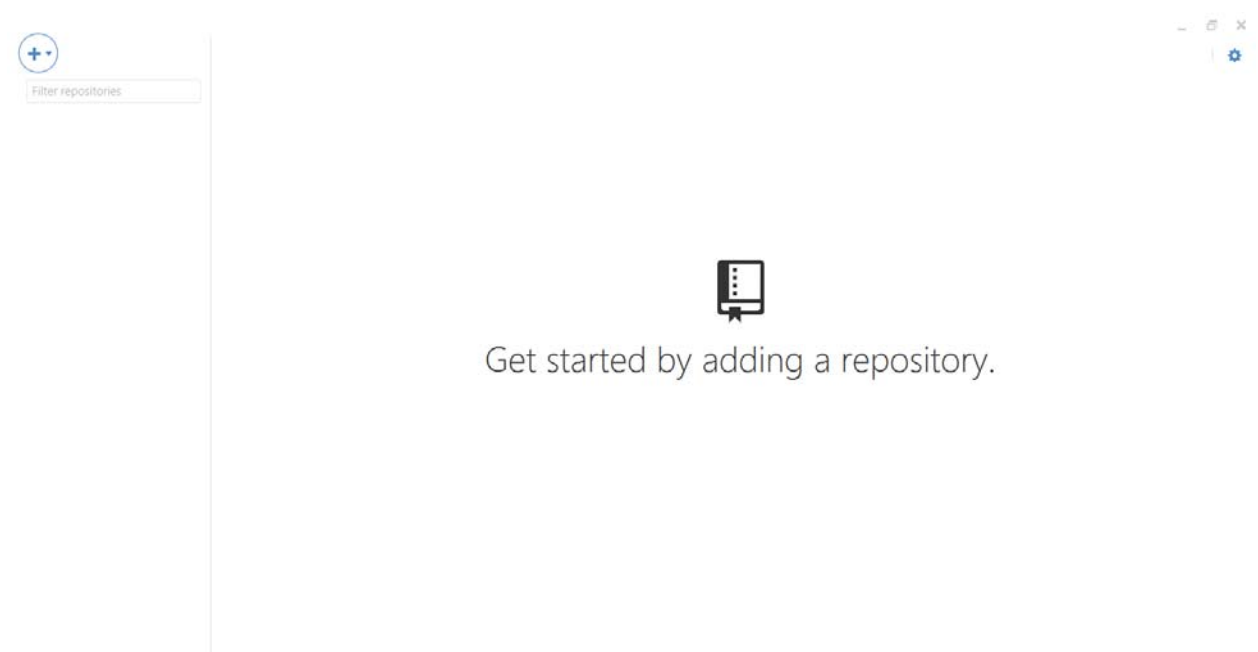
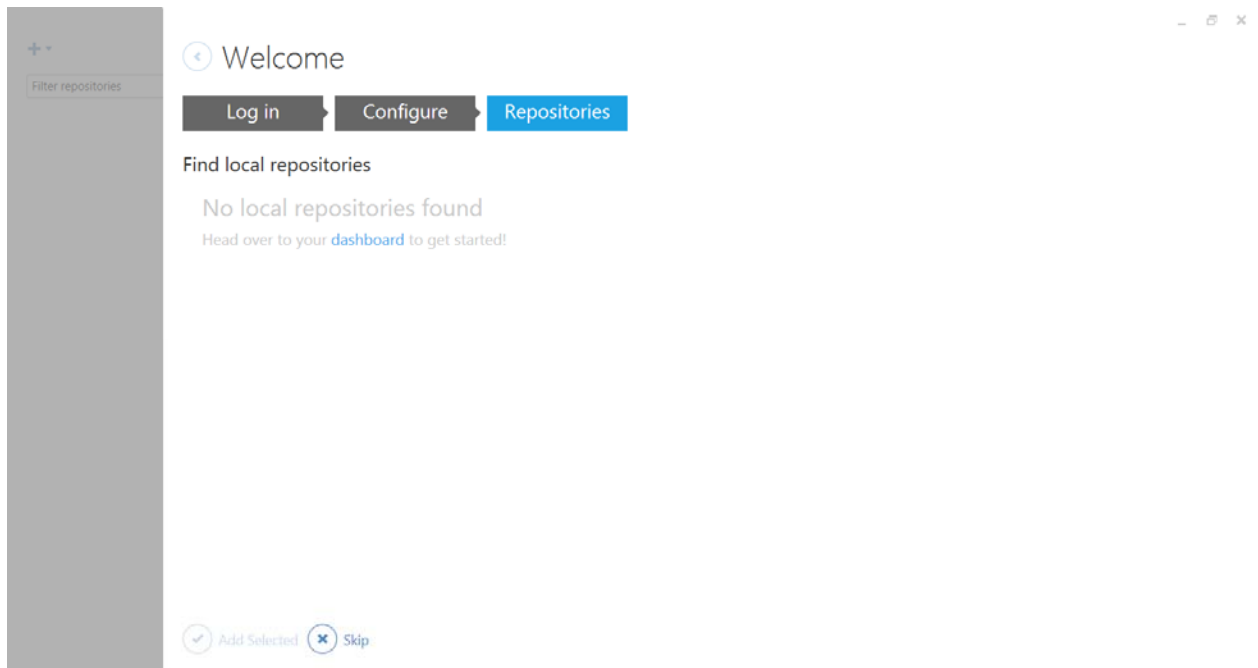
mandakini.saranu@gmail.com

This will be used in the commits you create. Keep in mind that if you publish commits, anyone will have access to this email.  
**This will change your global gitconfig.**

☒ Continue

☐ Skip

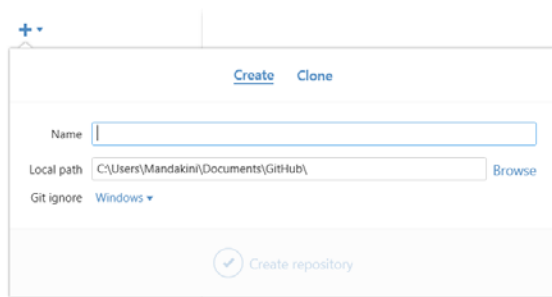
## How to create Repositories and clone projects in to repositories?



## Two important functionalities under Repositories in Git are:

- Create
- Clone

## How to Create a Repository under Git?



+

Create Clone

Name

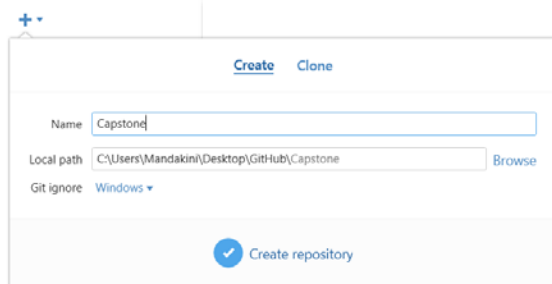
Local path C:\Users\Mandakini\Documents\GitHub\ Browse

Git ignore Windows

Create repository



Get started by adding a repository.



+

Create Clone

Name Capstone

Local path C:\Users\Mandakini\Desktop\GitHub\Capstone Browse

Git ignore Windows

Create repository



Get started by adding a repository.

+

Filter repositories

Capstone

master

Unsynced changes

Added .gitattributes & .gitignore files  
just now by CS595A-Team2

Added .gitattributes & .gitignore files

CS595A-Team2 1c24b2e

Revert Expand all

.gitattributes 17

.gitignore 43

+

Filter repositories

Capstone

master

Unsynced changes

Added .gitattributes & .gitignore files  
1 minute ago by CS595A-Team2

Added .gitattributes & .gitignore files

CS595A-Team2 1c24b2e

Revert Collapse all

.gitattributes 17

.gitignore 43

```

... .. @@ -0,0 +1,17 @@
1 + # Auto detect text files and perform LF normalization
2 + * text=auto
3 +
4 + # Custom for Visual Studio
5 + *.cs diff=cssharp
6 +
7 + # Standard to msysgit
8 + *.doc diff=astextplain
9 + *.DOC diff=astextplain
10 + *.docx diff=astextplain
11 + *.DOCX diff=astextplain
12 + *.dot diff=astextplain
13 + *.DOT diff=astextplain
14 + *.pdf diff=astextplain
15 + *.PDF diff=astextplain
16 + *.rtf diff=astextplain
17 + *.RTF diff=astextplain

```

.gitignore 43

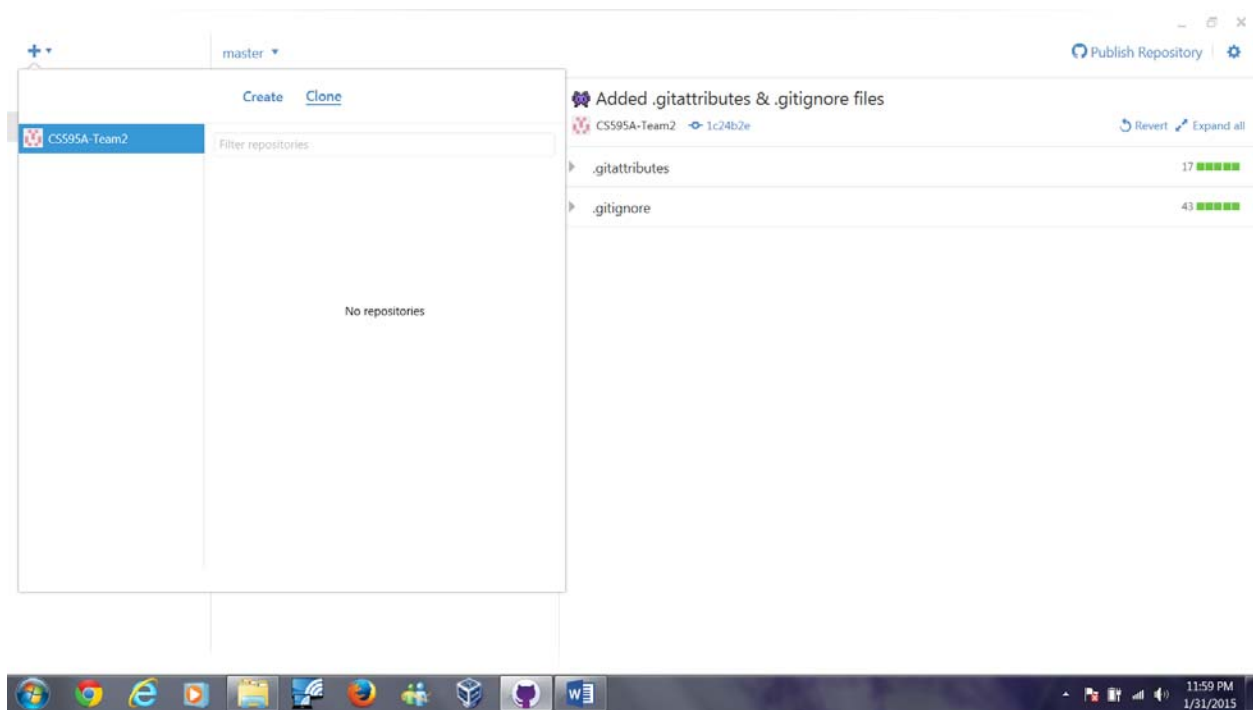
```

... .. @@ -0,0 +1,43 @@
1 + # Windows image file caches
2 + Thumbs.db
3 + ehthumbs.db
4 +
5 + # Folder config file
6 + Desktop.ini
7 +

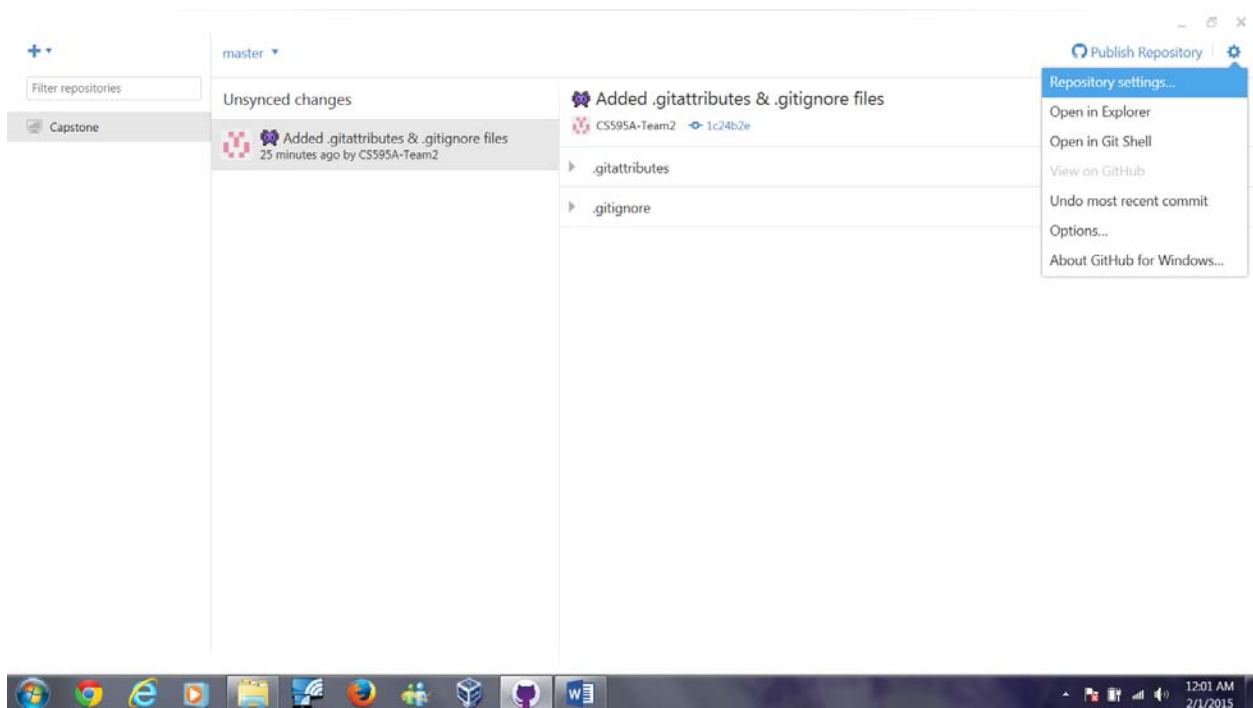
```

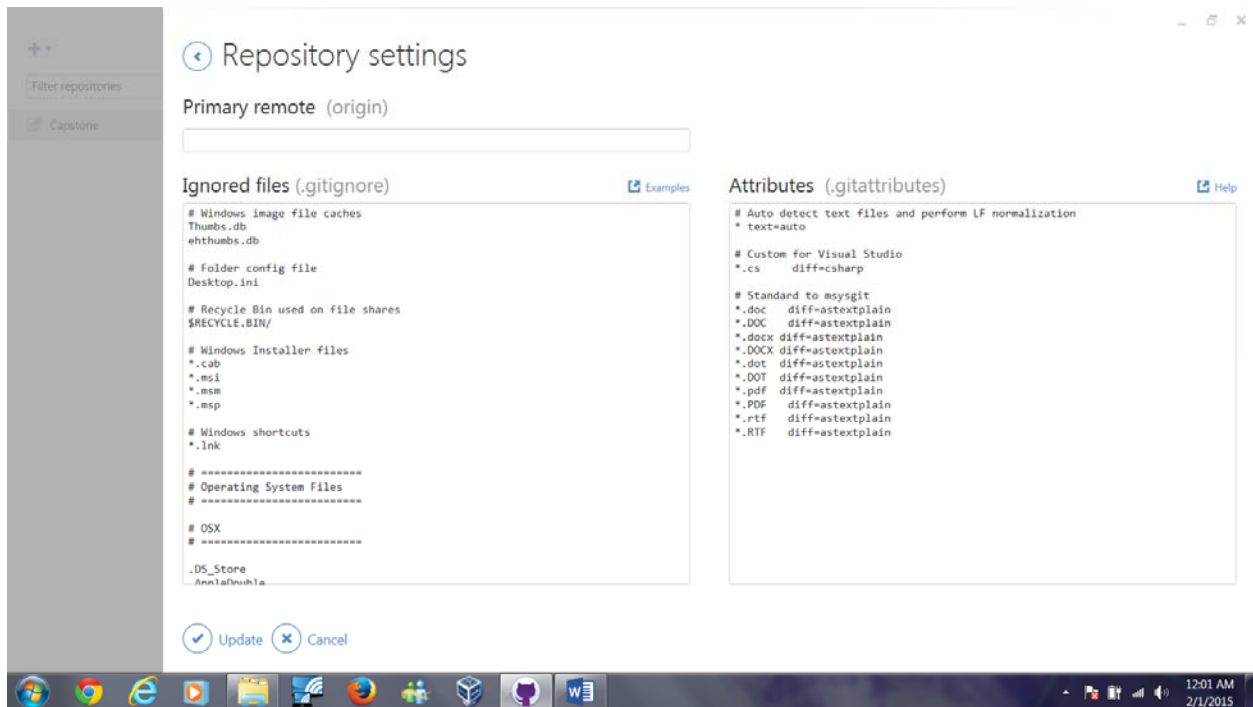
11

## How to Clone Projects to a Repository under Git

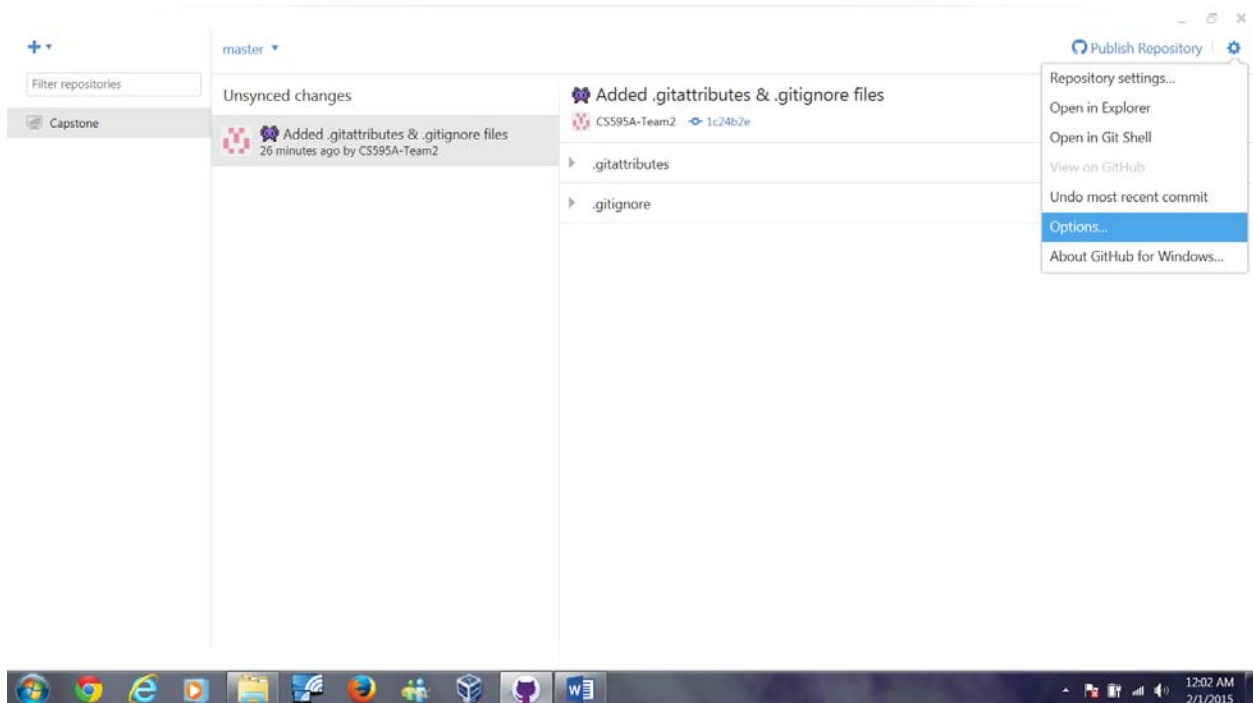


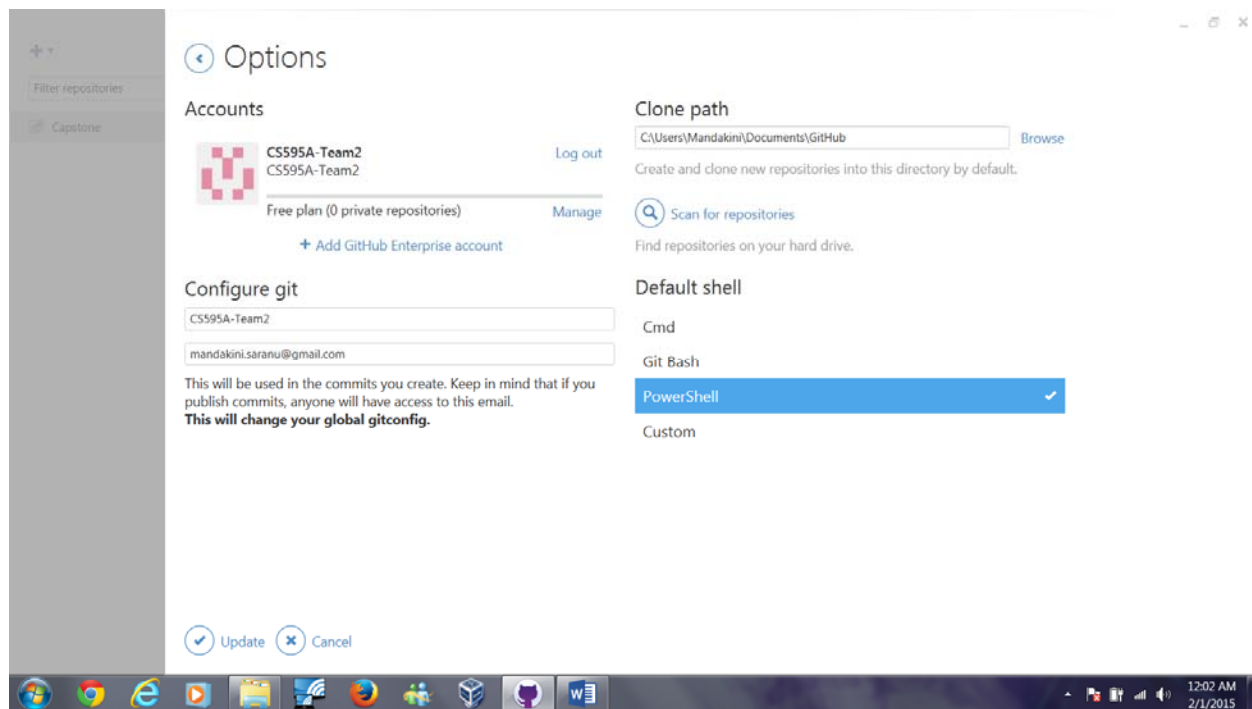
## Repository Settings under Git



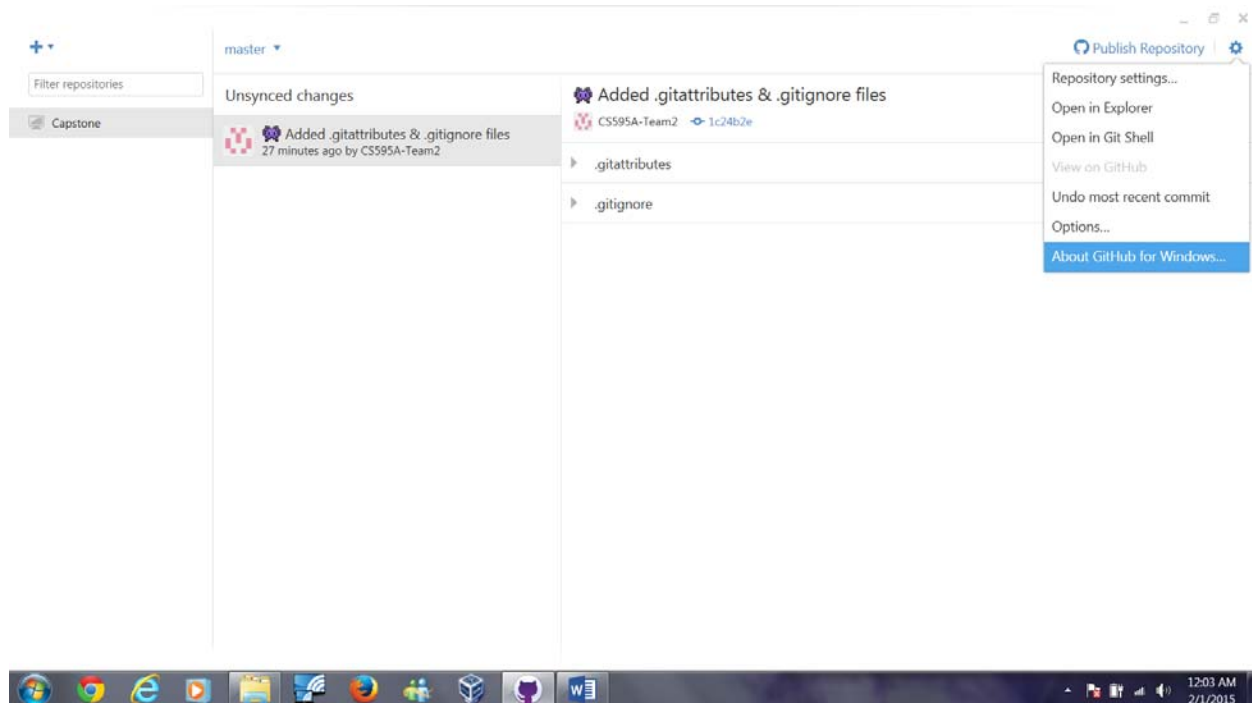


## Options available under Git

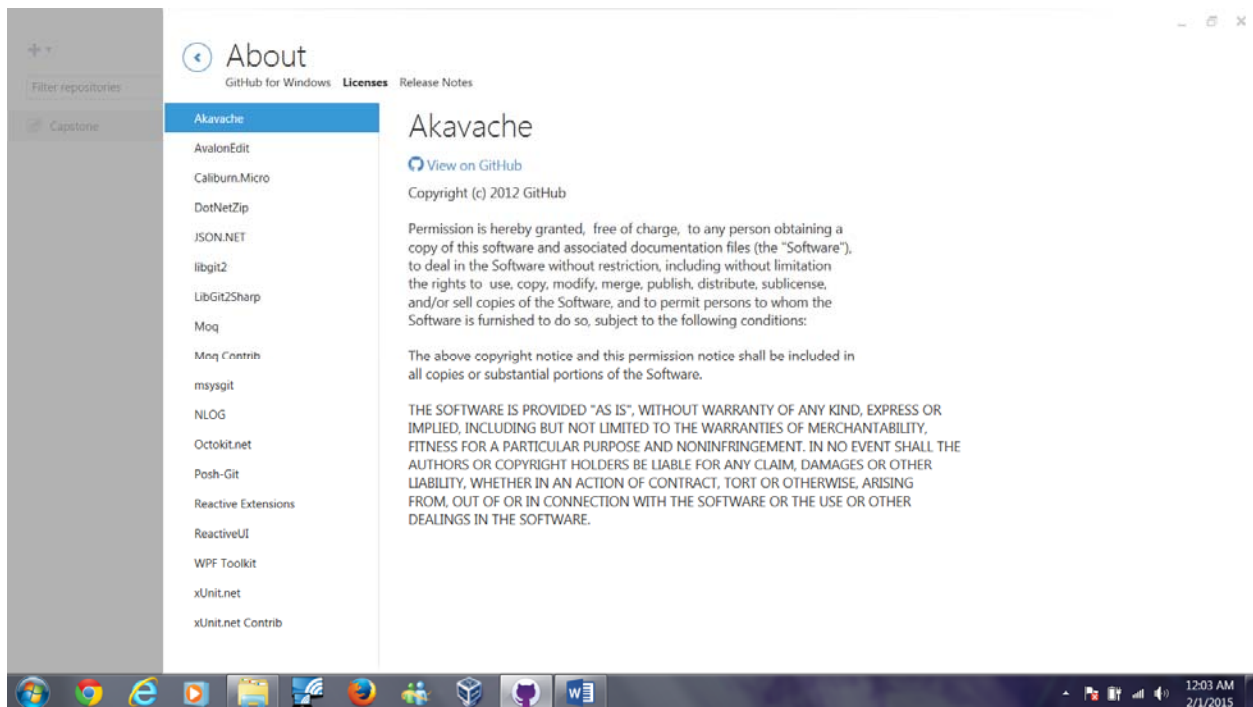
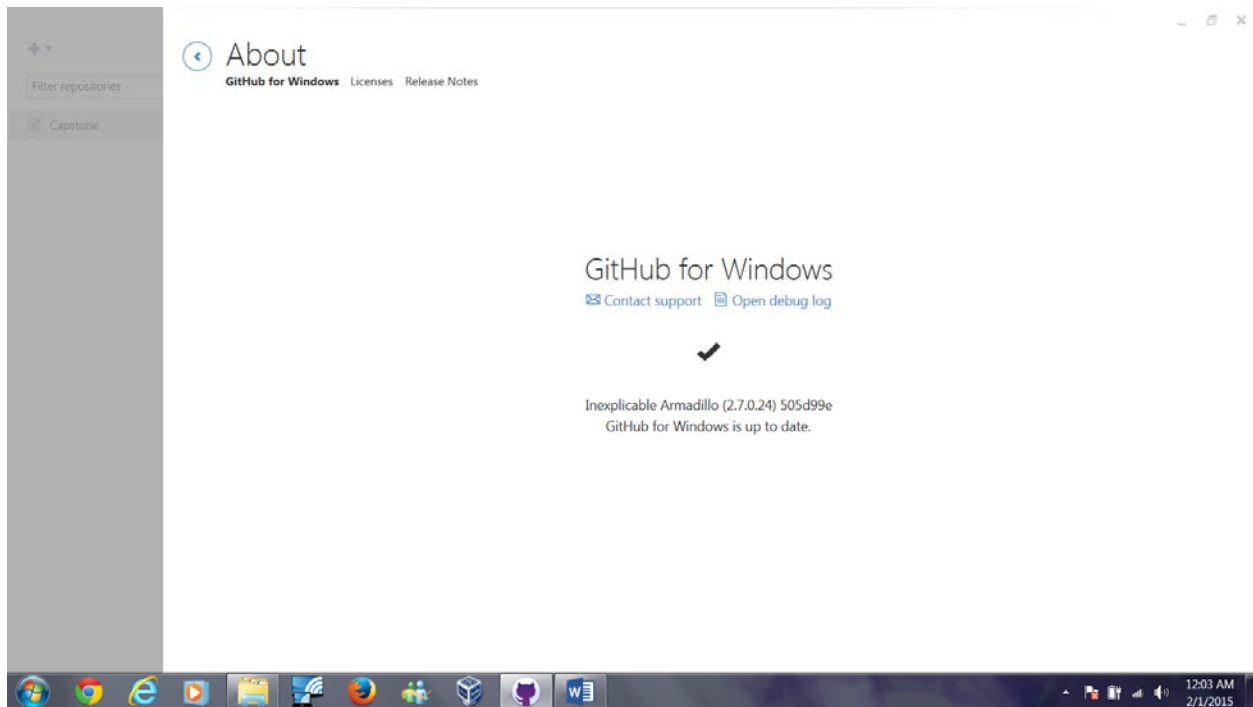


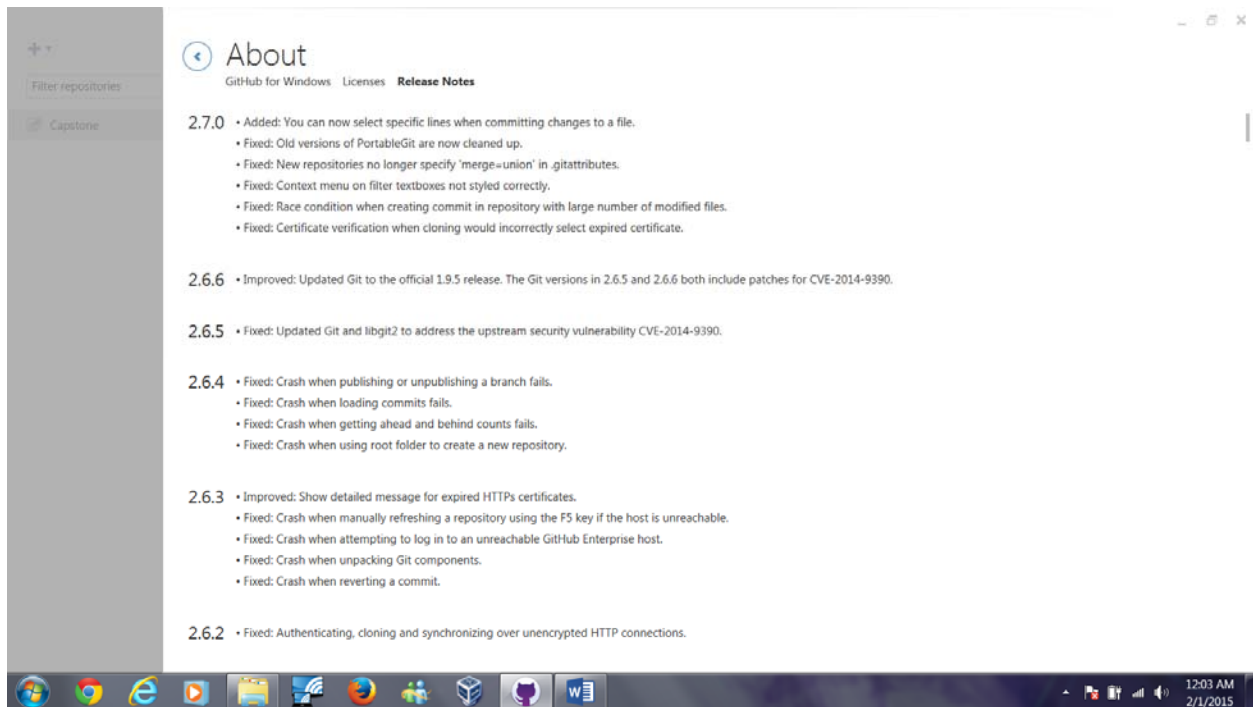


## Information on GitHub for windows

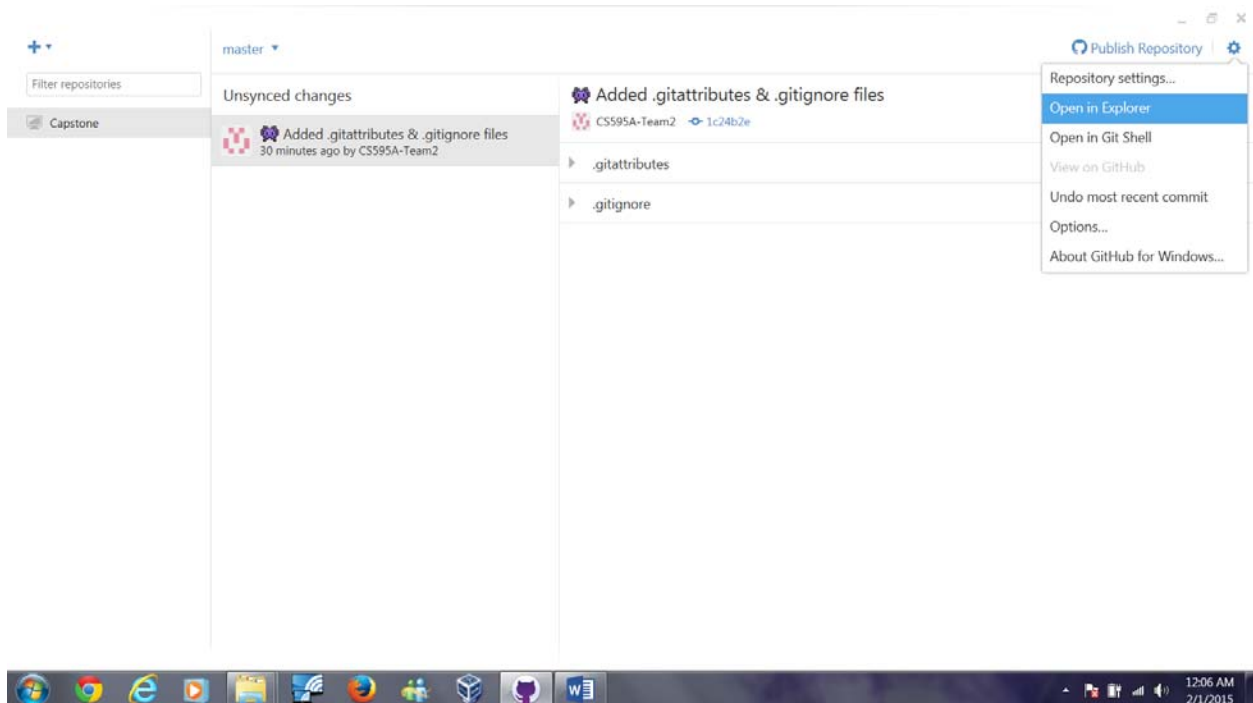


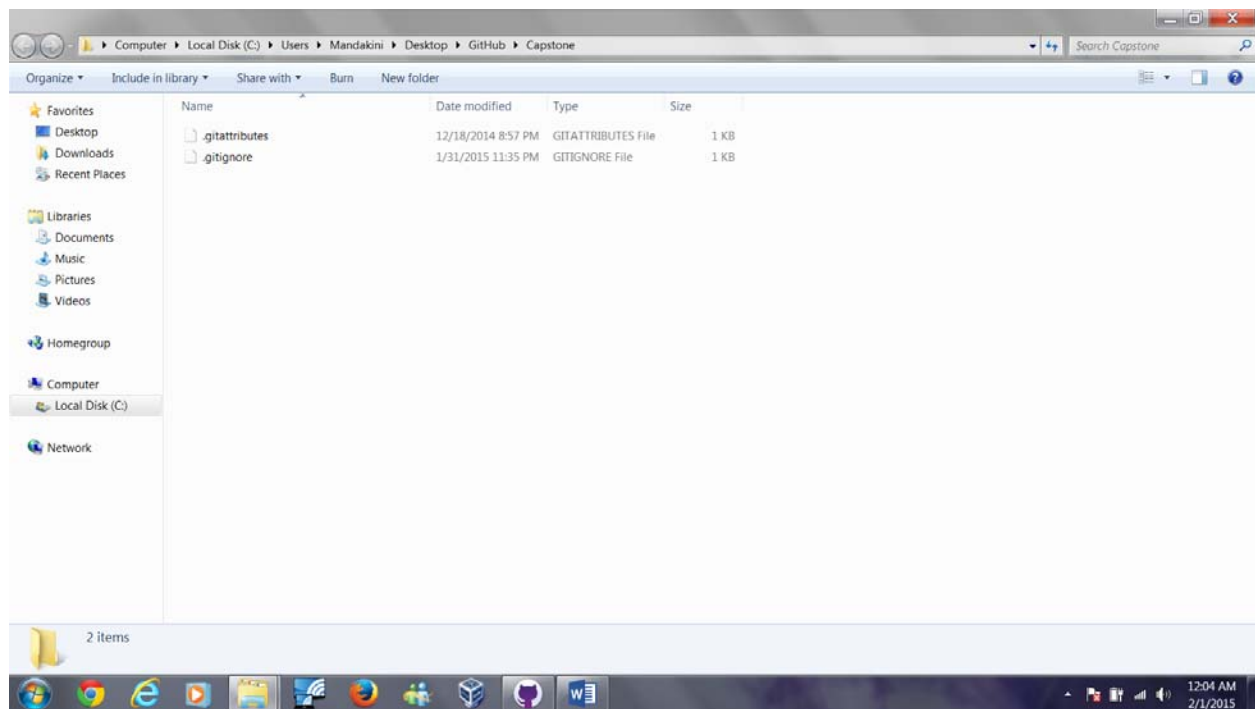




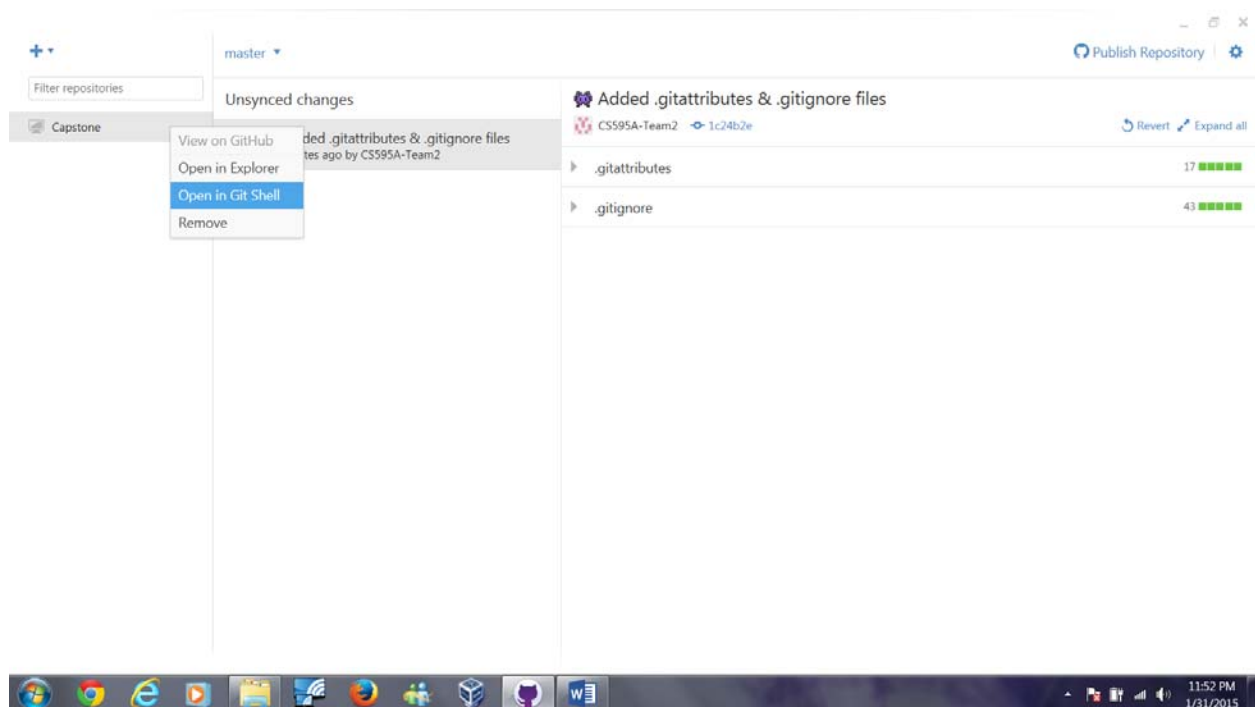


## How to open repositories in Windows Explorer?





## How to open repositories in Git Shell?



```
posh~git ~ Capstone [master]
Windows PowerShell
Copyright (C) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Mandakini\Desktop\GitHub\Capstone [master]> ls

Directory: C:\Users\Mandakini\Desktop\GitHub\Capstone

Mode                LastWriteTime         Length Name
----                -
-a---            12/18/2014   8:57 PM           395 .gitattributes
-a---            1/31/2015  11:35 PM           617 .gitignore

C:\Users\Mandakini\Desktop\GitHub\Capstone [master]>
```

## How to publish a repository?

