

GitHub协作简介

Algo_F

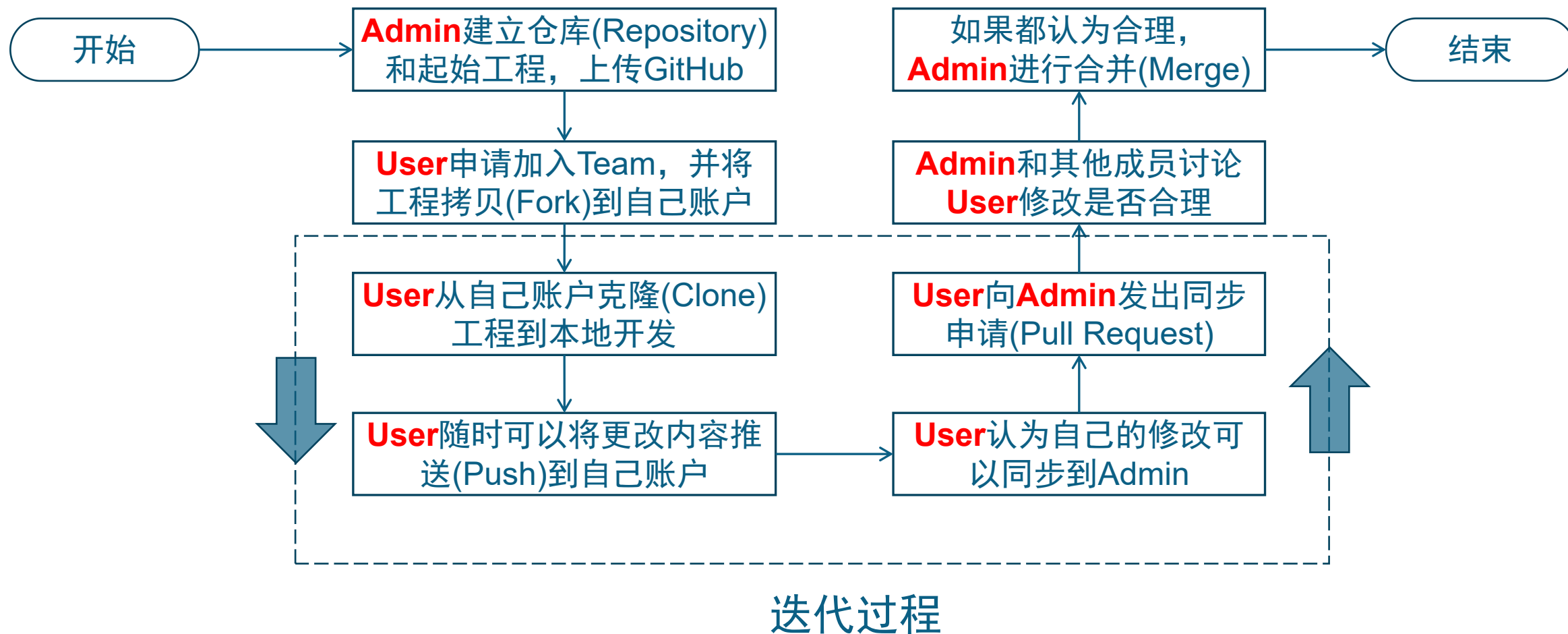
背景

微软TFS是模拟GitHub的，如果我们已经熟悉TFS，对GitHub的开发协作模式应该有所了解，TFS转GitHub只是更换了一个环境而已。后面我以GitHub为例，再现TFS的源代码管理方式。

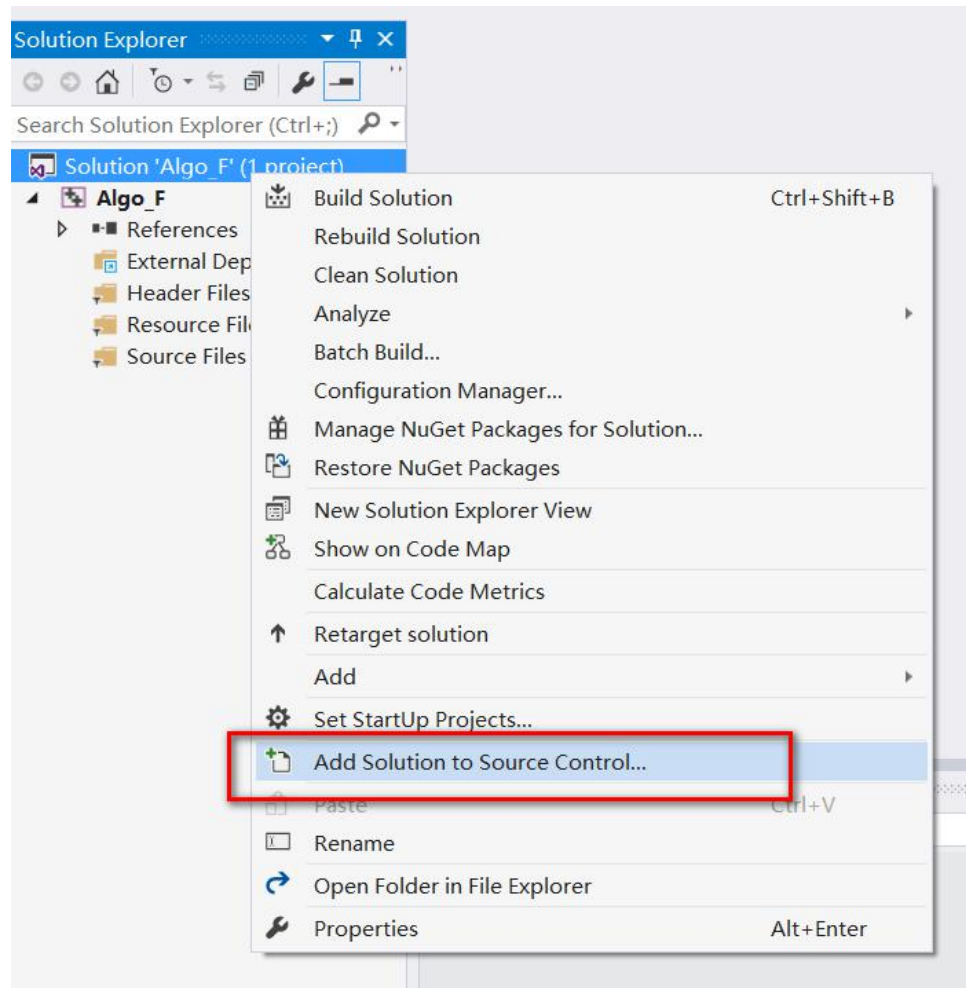
申请两个GitHub账号jiafenggang/jiafenggang2用作示例演示。其中jiafenggang作为Admin，jiafenggang2作为协同开发者User。

示例使用vs2015，测试vs2013不行，vs2015/17都可以。6-13页是如何参与别人的GitHub项目。如果不希望使用vs，可以参考笔记: [github协作](#),

工作流



Admin



将工程添加到源代码管理器

如果这页ppt操作不能正常进行，点击tool/Extensions and Updates/搜索GitHub Extension安装，重启vs



第一次使用会弹出Get Started




使用Admin账号登陆

Admin

https://github.com/jiafenggang2/Algo_F

Publish to GitHub

 This repository does not have a remote. Fill out the form to publish it to GitHub.

GitHub

jiafenggang

Algo_F

Create Start !

☐ Private Repository

Publish

Publish to Remote Repository

There is no remote configured for this local repository. Establish the remote by publishing to the URL of an existing empty repository.

Publish Git Repo

Team Explorer GitHub

jiafenggang / **Algo_F**

[Code](#) [Issues 0](#) [Pull requests 0](#) [Projects 0](#) [Wiki](#) [Insights](#)

Create Start !

[Add topics](#)

2 commits 1 branch 0 release

Branch: master [New pull request](#) [Create new file](#)

jiafenggang Add project files.

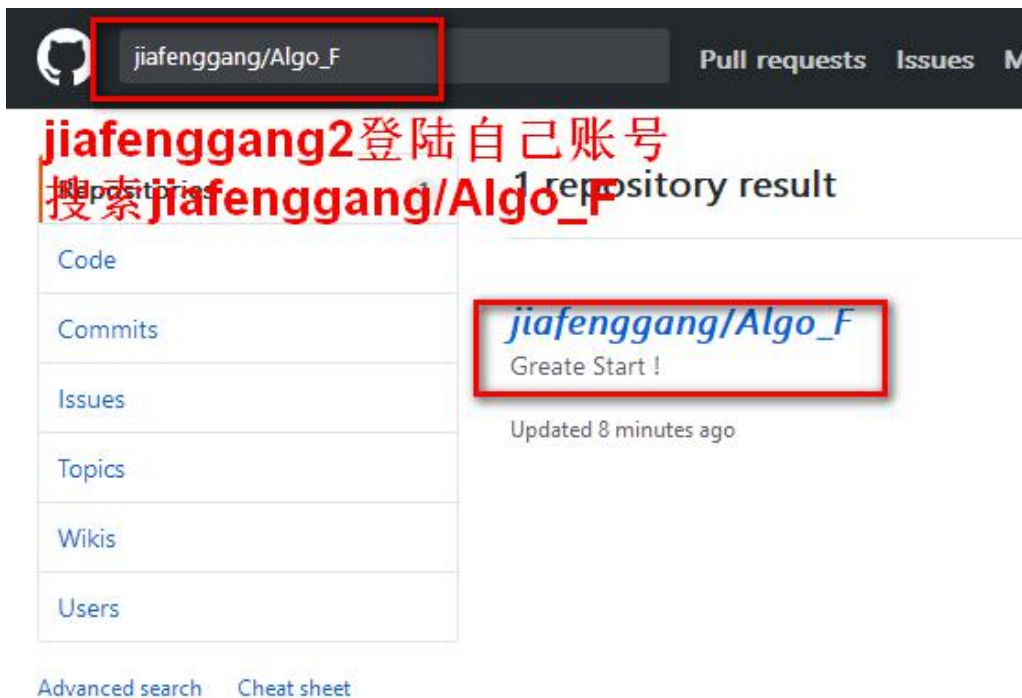
Algo_F	Add project files.
.gitattributes	Add .gitignore and .gitattributes.
.gitignore	Add .gitignore and .gitattributes.
Algo_F.sln	Add project files.

Help people interested in this repository understand your project by adding a README.

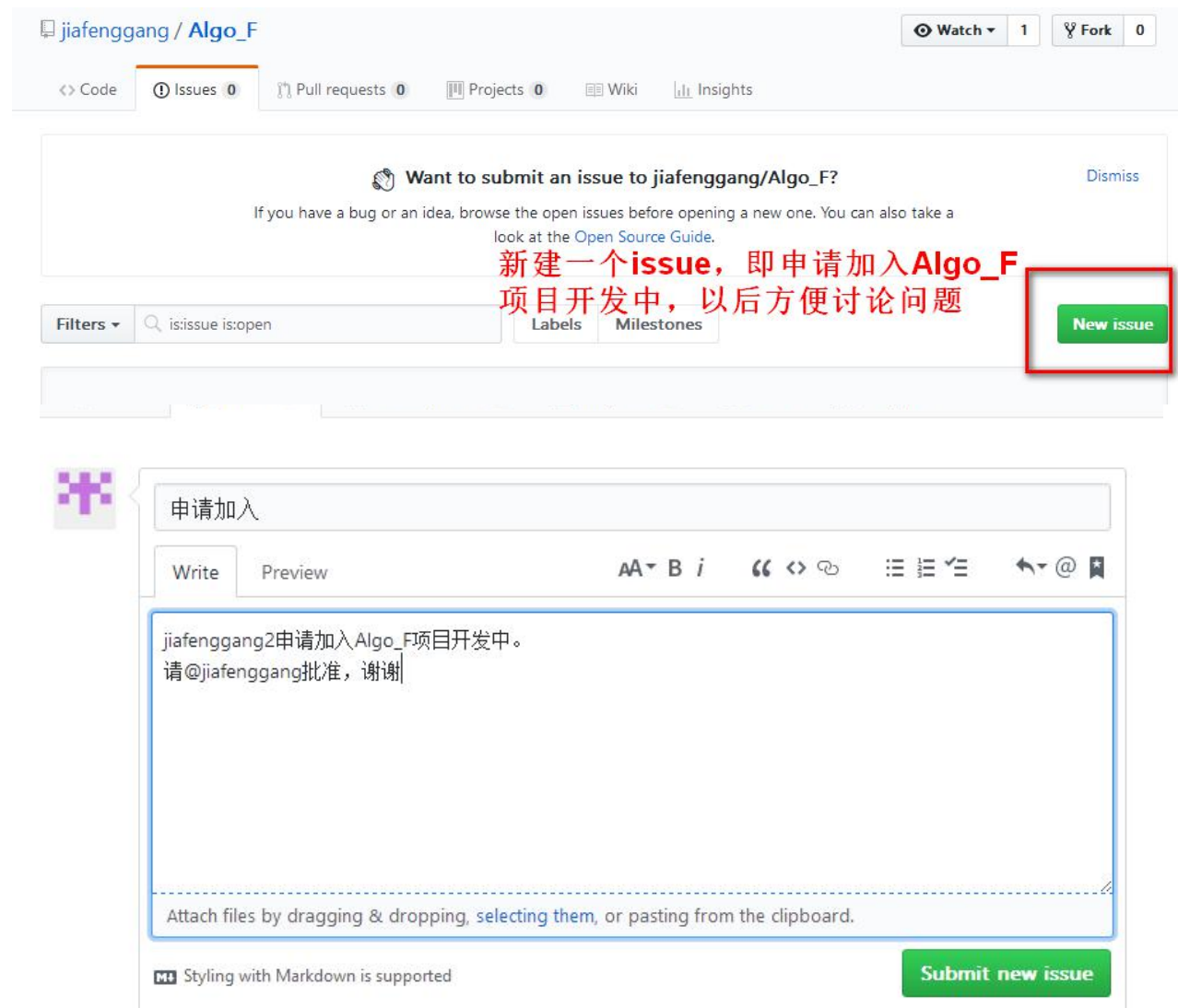
Admin建立仓库并发布到GitHub

登陆网页版GitHub，可以看到建立的仓库，及工程

User



User登陆账号搜索Admin发布的内容



User新建一个issue申请加入到项目开发中


Admin

jiafenggang / Algo_F


<> Code **Issues 1** Pull requests 0 Projects 0 Wiki Insights


申请加入 #1

Open jiafenggang2 opened this issue 2 minutes ago · 1 comment


 jiafenggang2 commented 2 minutes ago

jiafenggang2申请加入Algo_F项目开发中。
请@jiafenggang批准，谢谢

 jiafenggang assigned jiafenggang2 29 seconds ago

 jiafenggang commented 25 seconds ago **jiafenggang同意加入了** Owner

谢谢你的参加，大家一起加油

 Write Preview

在这里写的**comment**，所有项目成员都可以看到

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Styling with Markdown is supported

Close issue **Comment**

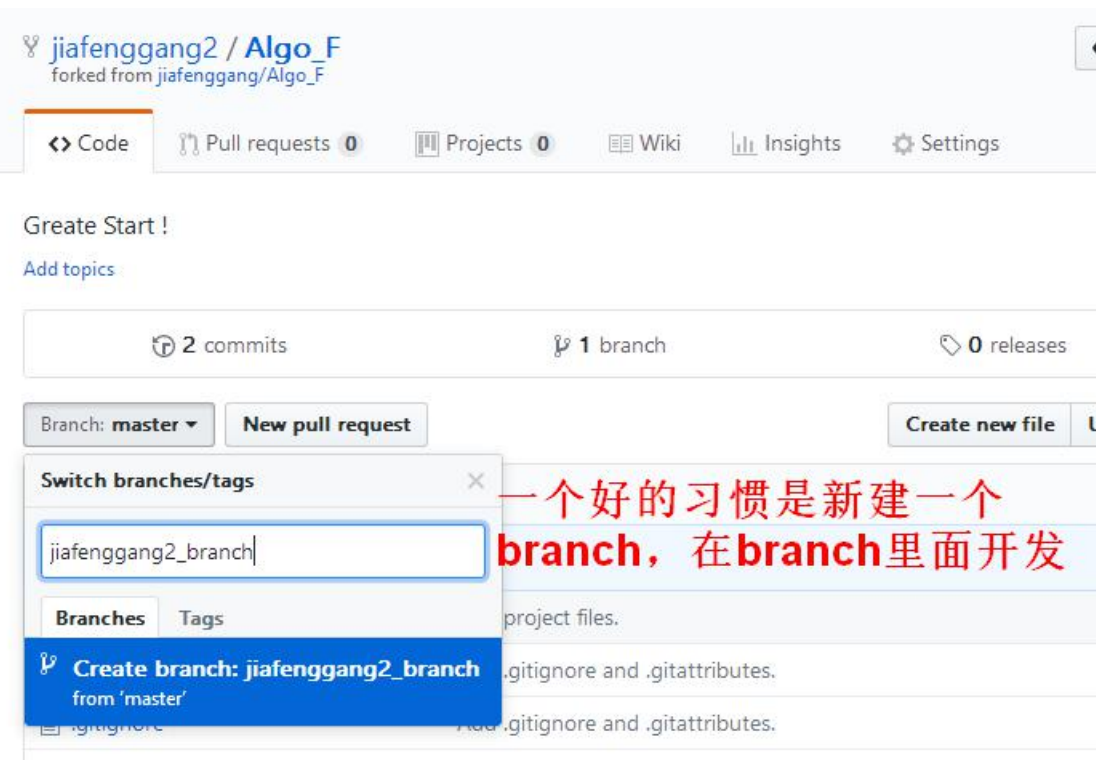
issue提供一个交流平台，
加入成员的所有回话都
可以跟踪

Admin同意User加入

User

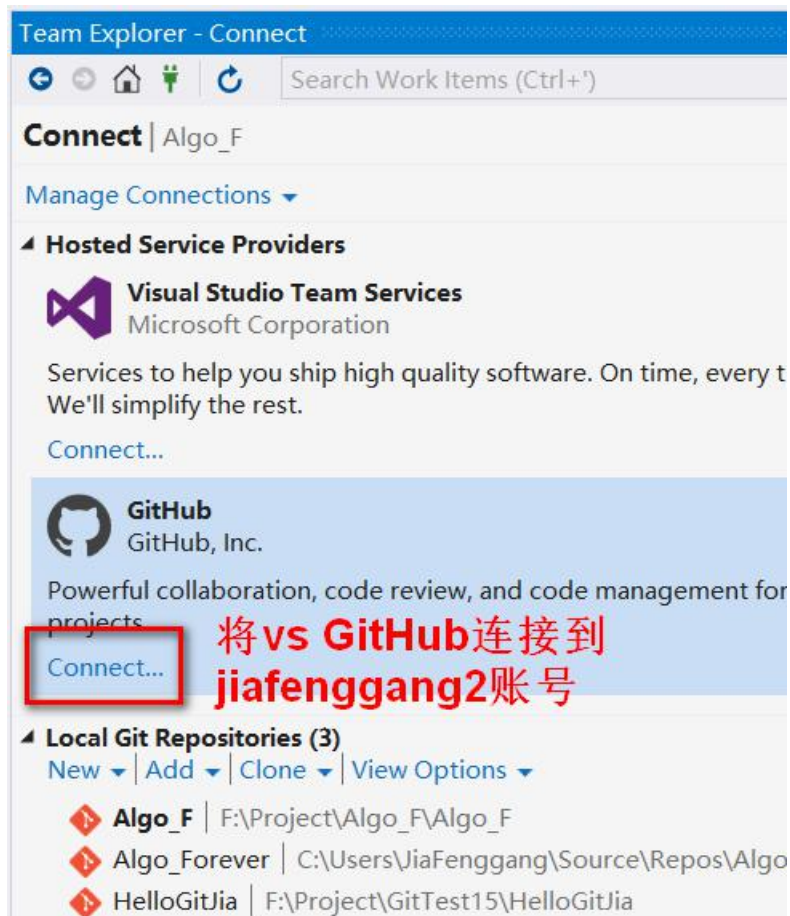


User将Admin的工程Fork到自己账户



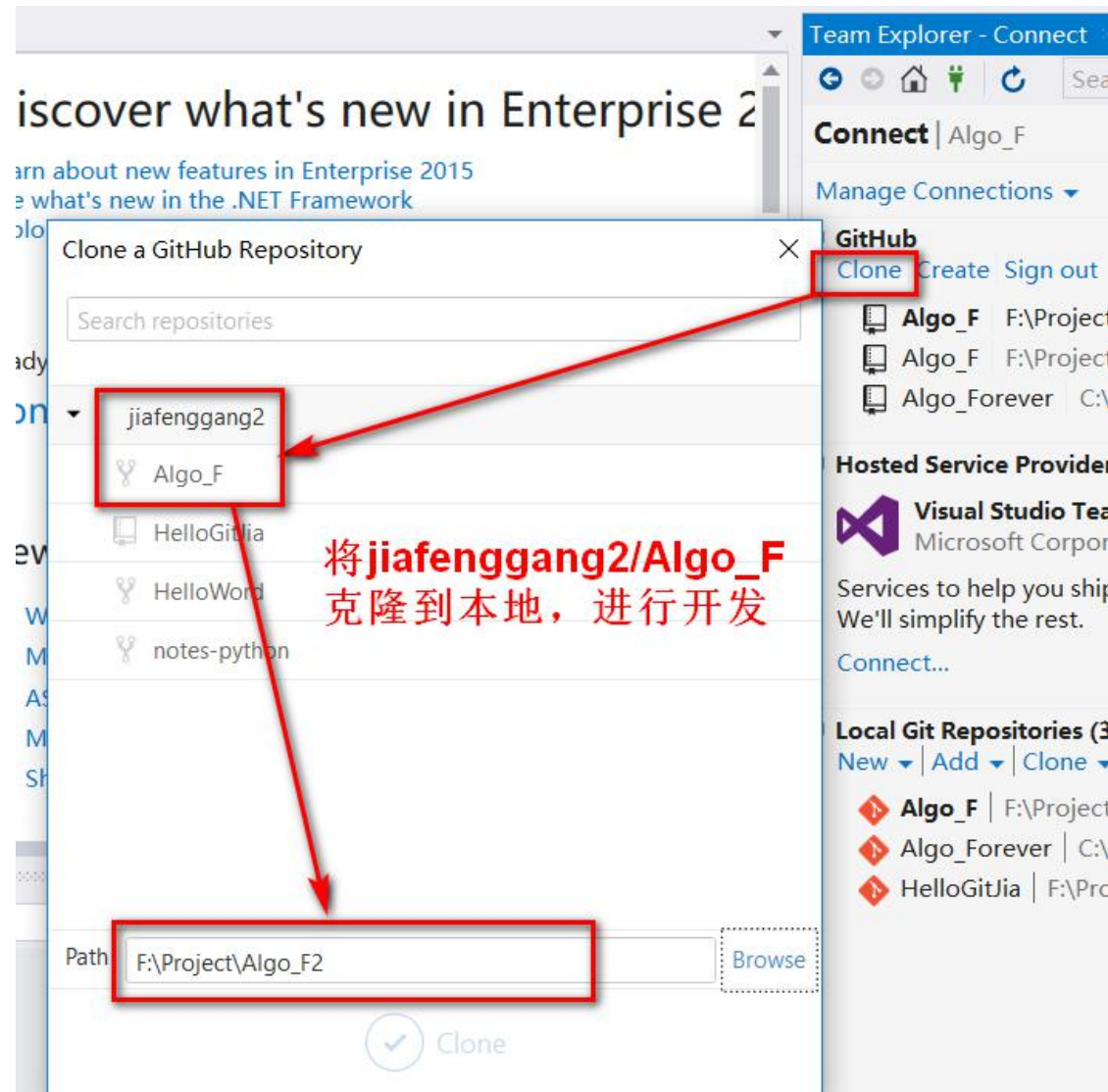
User新建一个新建一个branch用于自己开发

User



将vs GitHub连接到
jiafenggang2账号

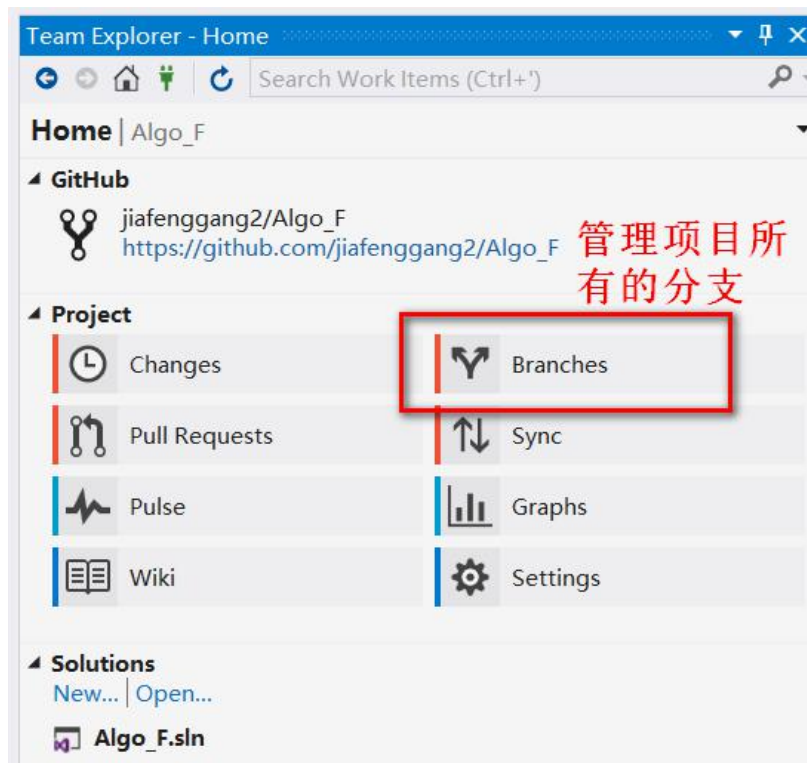
User在vs上登自己GitHub账号



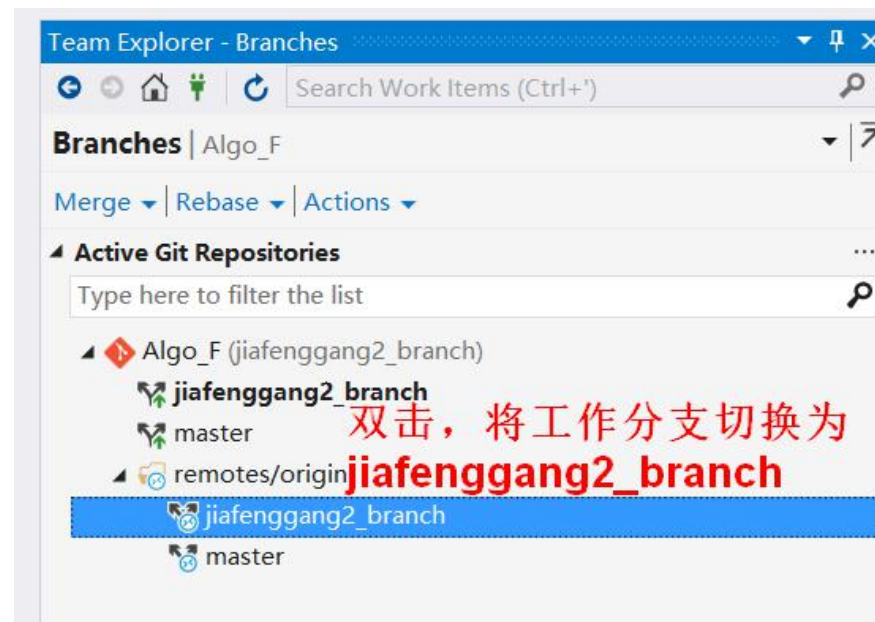
将jiafenggang2/Algo_F
克隆到本地，进行开发

User将工程Clone到本地目录用于Local开发

User



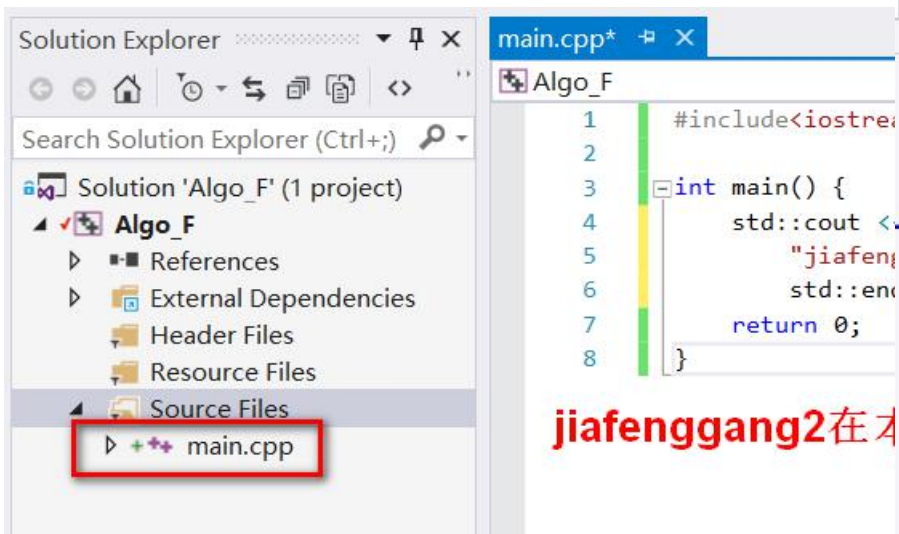
vs GitHub主要控制面板(Project)



User将活动分支切换为branch

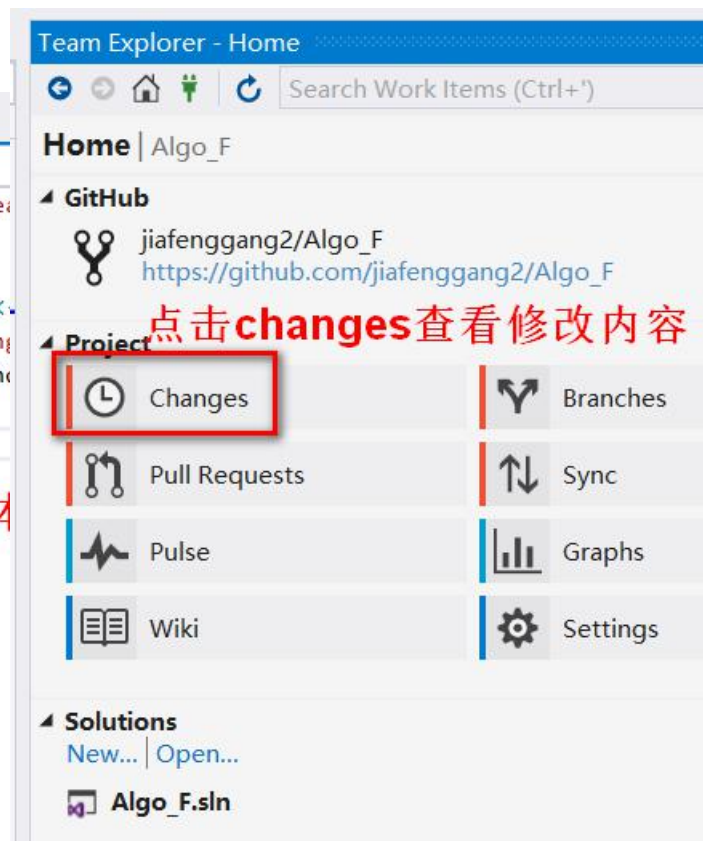
User

也可以只提交部分文件：
将要提交的选为stage，
然后Commit Staged

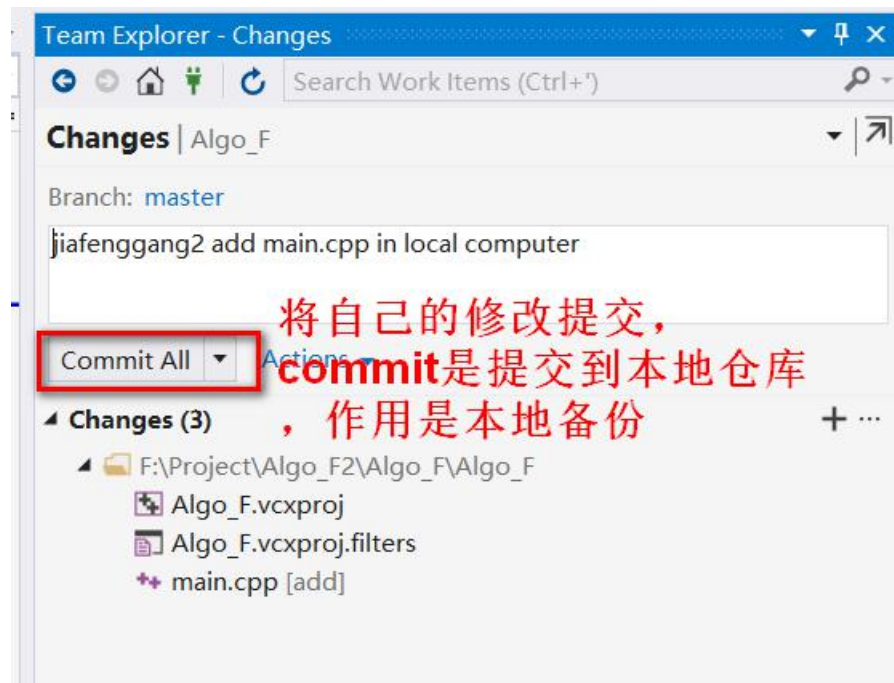


jiafenggang2在本地

User在本地填加了一个main.cpp文件



点击Changes可以查看修改的内容

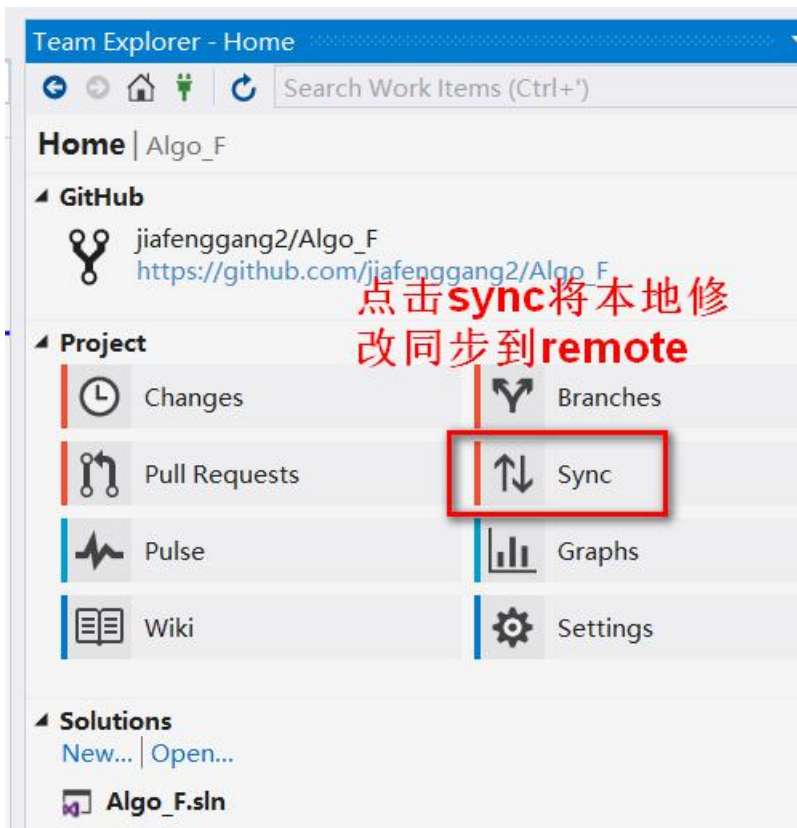


填加注释，将修改提交到本地仓库

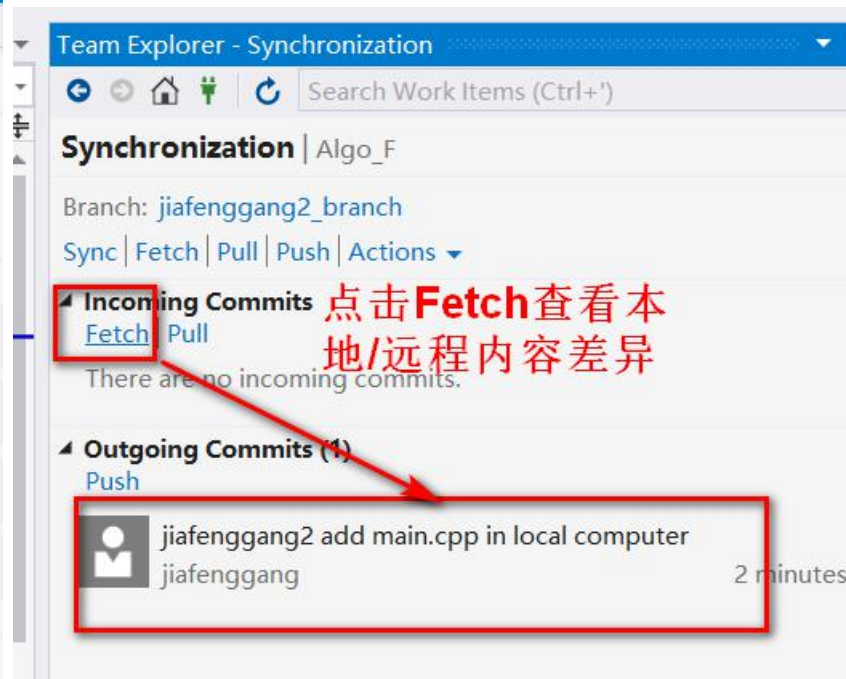
User

Fetch: Compare to Server
Push: Check in

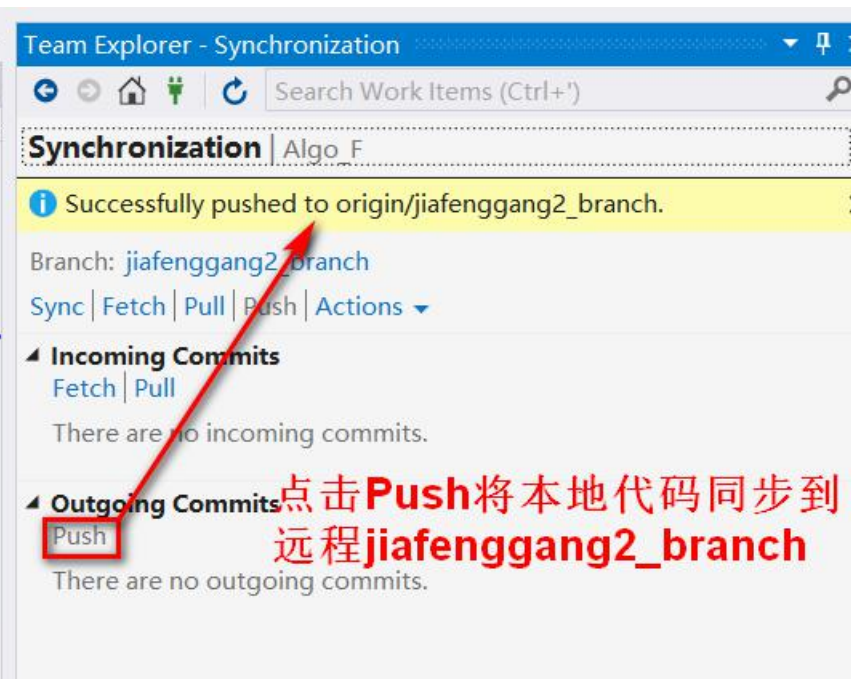
Pull: Get Latest
Sync: Push&Pull



点击Sync进入同步控制面板



点击Fetch查看本地服务器差异



确认OK了，将修改同步到自己账户

User

jiafenggang2 / Algo_F
forked from jiafenggang/Algo_F

Watch 0 Star 0 Fork 1

Code Pull requests 0 Projects 0 Wiki Insights Settings

Create Start ! Edit

4 commits 2 branches 0 releases 1 contributor

Your recently pushed branches:

jiafenggang2_branch (3 minutes ago)

Branch: master New pull request

Create new file Upload files Find file Clone or download

This branch is 2 commits ahead of jiafenggang:master. Pull request Compare

返回到网页版，会提示
内容发生变化，是否提
交到jiafenggang处

登陆网页版，会提示是否将修改提交给Admin

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base fork: jiafenggang/Algo_F base: master head fork: jiafenggang2/Algo_F compare: jiafenggang2_branch

✓ Able to merge. These branches can be automatically merged.

提交的方向，如果方向换过来，就是使用jiafenggang的代码去覆盖jiafenggang2_branch

jiafenggang2 add main.cpp in local computer

Write Preview

hello, jiafenggang
I add a main.cpp file to your project, please check include it or not !

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Allow edits from maintainers. Learn more

向jiafenggang提交修改


Create pull request

如果需要，新建pull request，和其他人讨论/合并


Admin

Admin和其它成员可以看到User的提交内容，大家可以进行讨论，最后决定是否合并到主干。
如果同意，就合并；
不同意，给出理由，拒绝掉；


jiafenggang2 add main.cpp in local computer #2

 Open jiafenggang2 wants to merge 1 commit into jiafenggang:master from jiafenggang2:jiafenggang2_branch


Conversation 0 Commits 1 Checks 0 **Files changed 3**




 jiafenggang2 commented 43 seconds ago First-time contributor


hello, jiafenggang
I add a main.cpp file to your project, please check include it or not !

 jiafenggang2 add main.cpp in local computer 784135e

Add more commits by pushing to the jiafenggang2_branch branch on jiafenggang2/Algo_F.




-  Continuous integration has not been set up
Several apps are available to automatically catch bugs and enforce style.
-  This branch has no conflicts with the base branch
Merging can be performed automatically.
- Merge pull request**  如果同意就Merge
You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

 Write Preview AA B i “ < > 🔗 ☰ ☷ ☹ ↶ @ 📌

Leave a comment

Attach files by dragging & dropping or [selecting them](#).

 Styling with Markdown is supported

Close pull request Comment

查看修改的内容

如果不同意，要么拒绝掉，要么填加注释说明原因

参考

<https://guides.github.com/activities/hello-world/>

<https://services.github.com/on-demand/windows/visual-studio>