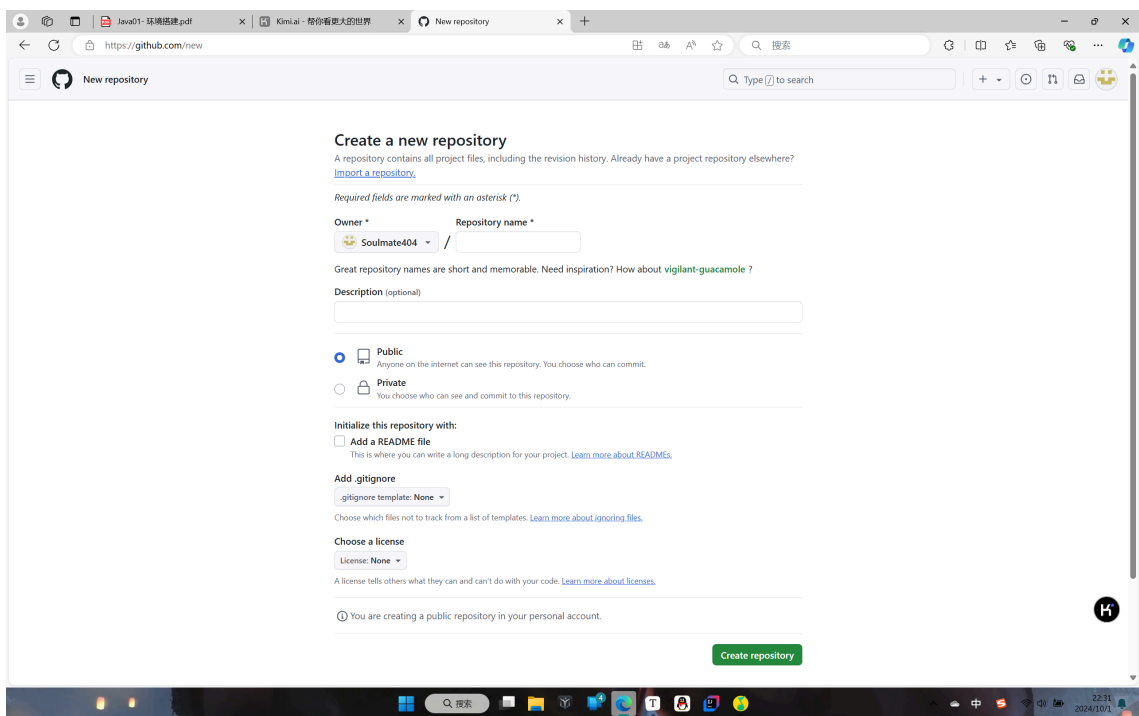
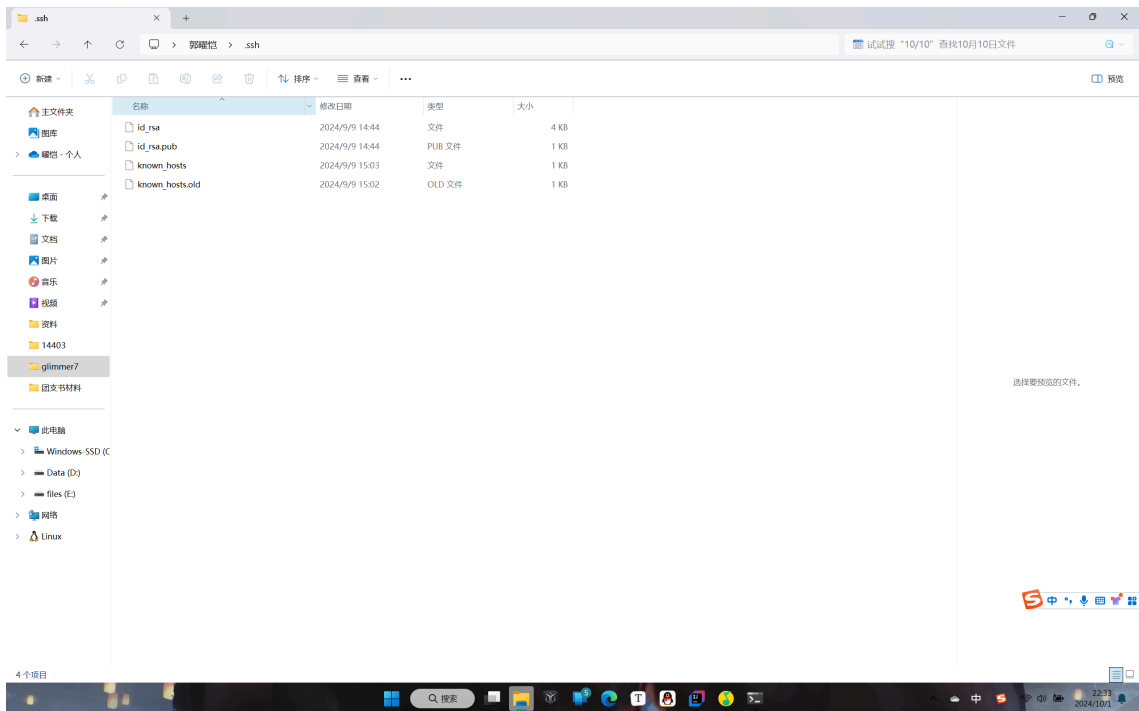


GithubFlow模拟

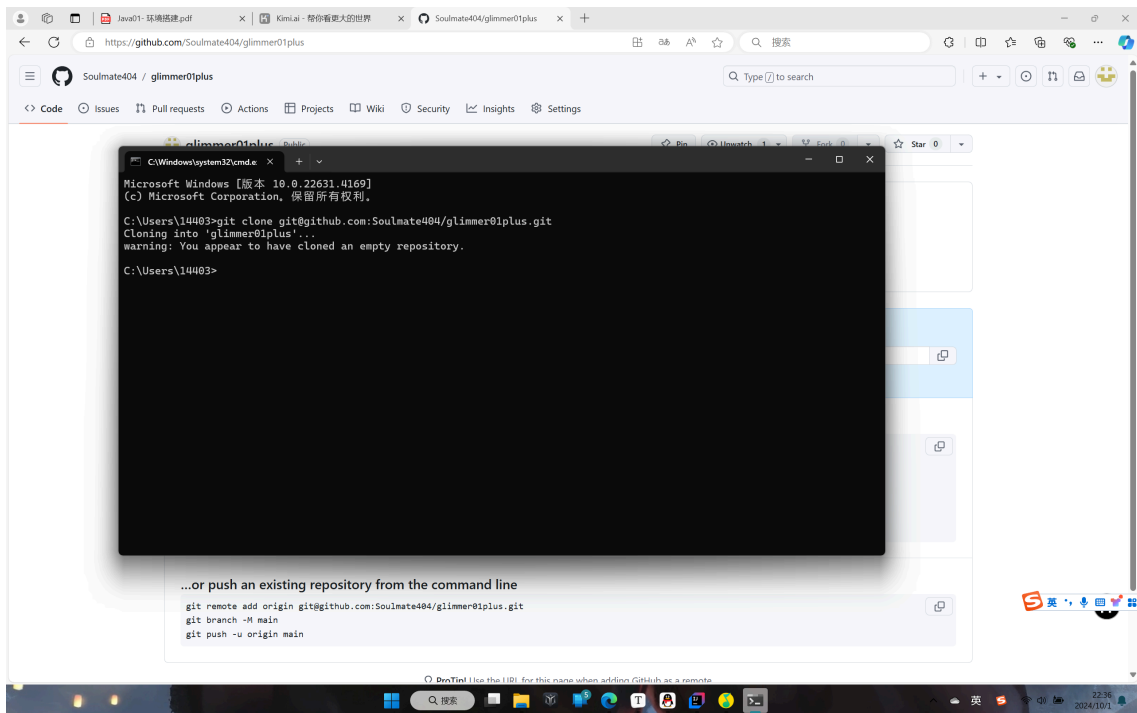
- 创建github仓库



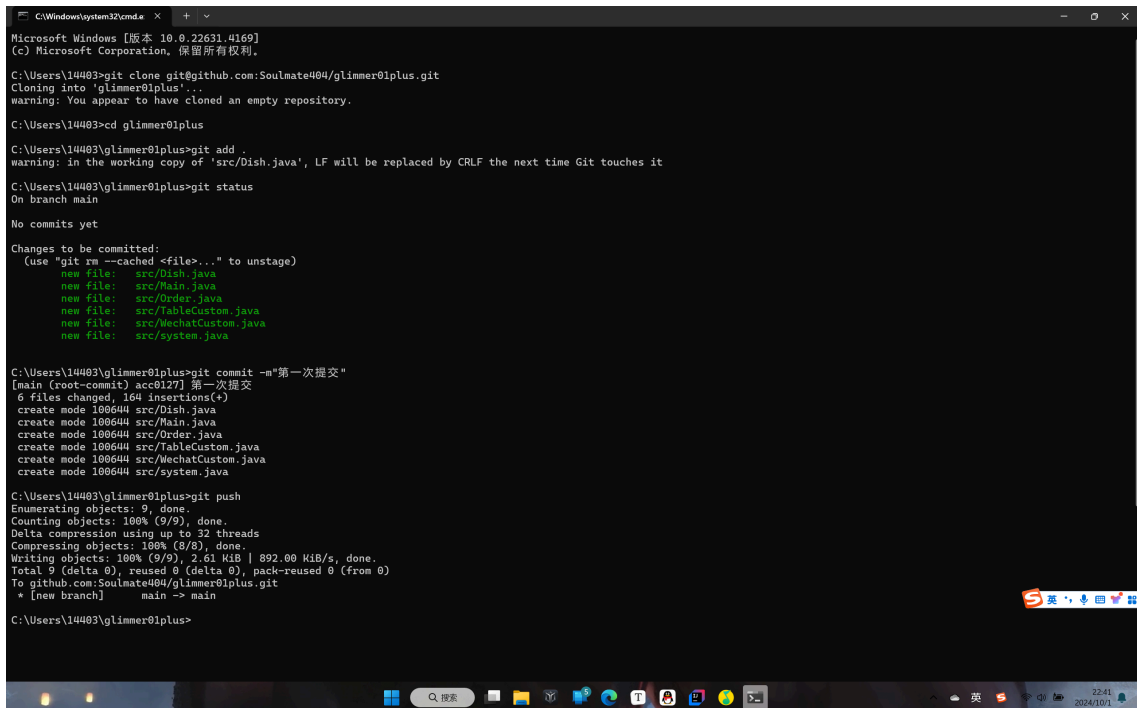
- 配置ssh



- 将新建仓库克隆至本地



- 提交过程



- emmm没看见创建分支，创建了分支后再次提交

```
C:\Windows\system32\cmd.exe
create mode 100644 src/TableCustom.java
create mode 100644 src/WechatCustom.java
create mode 100644 src/system.java

C:\Users\14403\glimmer01plus>git push
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 32 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (9/9), 2.61 KiB | 892.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:Soulmate404/glimmer01plus.git
 * [new branch]    main -> main

C:\Users\14403\glimmer01plus>git branch develop
C:\Users\14403\glimmer01plus>git checkout develop
Switched to branch 'develop'

C:\Users\14403\glimmer01plus>git add .
C:\Users\14403\glimmer01plus>git commit -m"创建develop后开发"
[develop 0b4860f] 创建develop后开发
1 file changed, 46 insertions(+)
create mode 100644 "\345\257\27101plusde\345\233\236\347\255\224.md"

C:\Users\14403\glimmer01plus>git push
fatal: The current branch develop has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin develop

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

C:\Users\14403\glimmer01plus>git push --set-upstream origin develop
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 32 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 2.08 KiB | 2.08 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:   https://github.com/Soulmate404/glimmer01plus/pull/new/develop
remote:
To github.com:Soulmate404/glimmer01plus.git
 * [new branch]    develop -> develop
branch 'develop' set up to track 'origin/develop'.

C:\Users\14403\glimmer01plus>
```

- 创建feather分支并提交，然后合并到develop，推送develop，并删除feather（这里忘了feather并没有提交到远程，报了个错）

```
C:\Windows\system32\cmd.exe
Writing objects: 100% (3/3), 2.08 KiB | 2.08 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:   https://github.com/Soulmate404/glimmer01plus/pull/new/develop
remote:
To github.com:Soulmate404/glimmer01plus.git
 * [new branch]    develop -> develop
branch 'develop' set up to track 'origin/develop'.

C:\Users\14403\glimmer01plus>git checkout -b feather
Switched to a new branch 'feather'

C:\Users\14403\glimmer01plus>git add .
C:\Users\14403\glimmer01plus>git commit -m "在feather中的提交"
[feather 5aad747] 在feather中的提交
1 file changed, 1 insertion(+)
create mode 100644 try.txt

C:\Users\14403\glimmer01plus>git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.

C:\Users\14403\glimmer01plus>git merge feather
Updating 0b4860f..5aad747
Fast-forward
 try.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 try.txt

C:\Users\14403\glimmer01plus>git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 32 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 356 bytes | 356.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:Soulmate404/glimmer01plus.git
 0b4860f..5aad747 develop -> develop

C:\Users\14403\glimmer01plus>git branch -d feather
Deleted branch feather (was 5aad747).

C:\Users\14403\glimmer01plus>git push origin --delete feather
error: did you mean '--delete' (with two dashes)?

C:\Users\14403\glimmer01plus>git push origin --delete feather
error: unable to delete 'feather': remote ref does not exist
error: failed to push some refs to 'github.com:Soulmate404/glimmer01plus.git'

C:\Users\14403\glimmer01plus>
```

- 若代码在master上线发布后，突然发现存在严重Bug，则需马上修复，可立即从master 分支签出一个hotfix分支用于修复Bug。修复好后，把hotfix分支合并到master分支并推送。同样地，把hotfix分支合并到develop分支（为什么？），并推送。最后删除hotfix 分支。

develop作为测试环境，应当时刻和master一致，确保测试环境与当前版本相同（实操就不了哈，和上面完全一样）

- 在远程仓库的develop分支进行一些修改并提交，以此模拟其他开发者的提交。
- 在本地仓库的develop分支进行开发，提交后推送。git会拒绝进行推送，为什么？请拉取远程仓库的分支后（加分项：设计好你在远程仓库和本地仓库的提交，使得这个拉取 操作出现冲突，并解决冲突），再推送。

在没有Pull的情况下由于本地和远程版本不一致拒绝推送

```
C:\Windows\system32\cmd.exe
create mode 100644 try.txt

C:\Users\14403\glimmer01plus>git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.

C:\Users\14403\glimmer01plus>git merge feather
Updating 0b4860f..5aad747
Fast-forward
 try.txt | 1 +
 1 file changed, 1 insertion(+)
create mode 100644 try.txt

C:\Users\14403\glimmer01plus>git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 32 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 356 bytes | 356.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:Soulmate404/glimer01plus.git
 0b4860f..5aad747  develop -> develop

C:\Users\14403\glimmer01plus>git branch -d feather
Deleted branch feather (was 5aad747).

C:\Users\14403\glimmer01plus>git push origin --delete feather
error: did you mean '--delete' (with two dashes)?

C:\Users\14403\glimmer01plus>git push origin --delete feather
error: unable to delete 'feather': remote ref does not exist
error: failed to push some refs to 'github.com:Soulmate404/glimer01plus.git'

C:\Users\14403\glimmer01plus>git add .
warning: in the working copy of 'File.java', LF will be replaced by CRLF the next time Git touches it

C:\Users\14403\glimmer01plus>git commit -m"在没有Pull的情况下push"
[develop b918c54] 在没有Pull的情况下push
 1 file changed, 58 insertions(+)
 create mode 100644 File.java

C:\Users\14403\glimmer01plus>git push
To github.com:Soulmate404/glimer01plus.git
 ! [rejected]        develop -> develop (fetch first)
error: failed to push some refs to 'github.com:Soulmate404/glimer01plus.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\Users\14403\glimmer01plus>
```

o

由于本地和远端的提交冲突，无法正常拉取

```
C:\Windows\system32\cmd.exe

C:\Users\14403\glimmer01plus>git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 32 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 356 bytes | 356.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:Soulmate404/glimer01plus.git
 0b4860f..5aad747  develop -> develop

C:\Users\14403\glimmer01plus>git branch -d feather
Deleted branch feather (was 5aad747).

C:\Users\14403\glimmer01plus>git push origin --delete feather
error: did you mean '--delete' (with two dashes)?

C:\Users\14403\glimmer01plus>git push origin --delete feather
error: unable to delete 'feather': remote ref does not exist
error: failed to push some refs to 'github.com:Soulmate404/glimer01plus.git'

C:\Users\14403\glimmer01plus>git add .
warning: in the working copy of 'File.java', LF will be replaced by CRLF the next time Git touches it

C:\Users\14403\glimmer01plus>git commit -m"在没有Pull的情况下push"
[develop b918c54] 在没有Pull的情况下push
 1 file changed, 58 insertions(+)
 create mode 100644 File.java

C:\Users\14403\glimmer01plus>git push
To github.com:Soulmate404/glimer01plus.git
 ! [rejected]        develop -> develop (fetch first)
error: failed to push some refs to 'github.com:Soulmate404/glimer01plus.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\Users\14403\glimmer01plus>git pull origin develop
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 1.81 KiB | 370.00 KiB/s, done.
From github.com:Soulmate404/glimer01plus
 * branch                develop    -> FETCH_HEAD
 5aad747..9faf347  develop    -> origin/develop
hint: Waiting for your editor to close the file... error: cannot spawn v: No such file or directory
error: unable to start editor 'v'
Not committing merge; use 'git commit' to complete the merge.

C:\Users\14403\glimmer01plus>
```

。这里由于没有对应编辑器，解决合并冲突的页面没开成功。

o 处理冲突后

```
C:\Windows\system32\cmd.exe
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\Users\14403\glimmer01plus>git pull origin develop
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 1.81 KiB | 370.00 KiB/s, done.
From github.com:Soulmate404/glimmer01plus
 * branch                develop    -> FETCH_HEAD
 * 5aad747..94af347      develop    -> origin/develop
hint: Waiting for your editor to close the file... error: cannot spawn v: No such file or directory
error: unable to start editor 'v'
Not committing merge, use 'git commit' to complete the merge.

C:\Users\14403\glimmer01plus>git config --global core.editor "vim"

C:\Users\14403\glimmer01plus>git pull origin develop
error: You have not concluded your merge (MERGE_HEAD exists).
hint: Please, commit your changes before merging.
fatal: Exiting because of unfinished merge.

C:\Users\14403\glimmer01plus>git config --global core.editor "code --wait"

C:\Users\14403\glimmer01plus>git pull origin develop
error: You have not concluded your merge (MERGE_HEAD exists).
hint: Please, commit your changes before merging.
fatal: Exiting because of unfinished merge.

C:\Users\14403\glimmer01plus>git add .
C:\Users\14403\glimmer01plus>git commit -m"处理冲突"
[develop 52bf50] 处理冲突
1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\14403\glimmer01plus>git push
Enumerating objects: 2, done.
Counting objects: 100% (2/2), done.
Delta compression using up to 32 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 403 bytes | 403.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:Soulmate404/glimmer01plus.git
  94af347..52bf50  develop -> develop

C:\Users\14403\glimmer01plus>git pull
Already up to date.

C:\Users\14403\glimmer01plus>
```

- 假设你和另一名开发者同时开发一个项目，该项目使用github作为远程仓库。请描述你们的开发过程应该如何使用git工具进行项目管理，以及中途可能遇到的问题

通过git对开发的各个版本进行保存方便随时回档，通过一个公共的远程仓库用github保存两人开发的所有代码，并各自在分支上进行开发，方便双方查看与更改

可能遇到双方由于沟通不足导致冲突的情况