

## Experiment -2.1

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**Branch:** AITCSE(DevOps)

**Semester:** Fourth

**Subject Name:** Git and Hub

**UID:** 22BDO10001

**Section/Group:** 22BCD-1(A)

**Date of Performance:** 07/02/2024

**Subject Code:** 22CSH-293

1. **Aim/Overview of the practical:** To Edit a file and commit the changes on GitHub.

2. **Software Used:** Git Bash, GitHub.

3. **Steps for experiment/practical:**

- a) Create or clone a repository on your local machine and open GIT BASH.
- b) Move to the directory using the **cd** command.
- c) In our case, the repository is there, so we used the **git init** command, to initialize the already loaded git repository.
- d) Create or open a file in the master or main branch, eg, **exp. c** and add some text to the file.
- e) Add the file to the staging area using **git add** and then commit the changes using the **git commit -m** message.
- f) Pull the changes to the remote repo using the command **git push <remote\_name> <branch\_name>**, here **git push origin rep.**
- g) You will be able to see the changes in the remote repository.
- h) Now, make some changes in the file in the remote repository and pull those changes in the local repository.
- i) Create a new branch and checkout to it using the **git checkout -b** command, eg, **rep.**
- j) Open the **exp. c** on the **vi** editor and make some changes to it.
- k) Merge the changes made in the **test** branch with the **master** branch and resolve the conflicts manually if necessary.
- l) Push the **master** and **rep** branch onto the remote repository.
- m) You will be able to see the new changes in the remote repository.
- n) Now, Go to Git Hub, open the repository move to the **rep** branch and make some changes in a file.

- 
- o) Commit the changes and move to the **master** branch. Click on the **Compare & Pull request**.
  - p) **Create the pull request**, resolve the merge conflicts (if any) and then **merge the pull request**.
  - q) After the merging, you may choose to delete your branch, i.e., **rep**
  - r) Now, pull the changes to the local repository using **git pull**.
  - s) You will be able to see the changes in your local repository.

#### 4. Outputs:

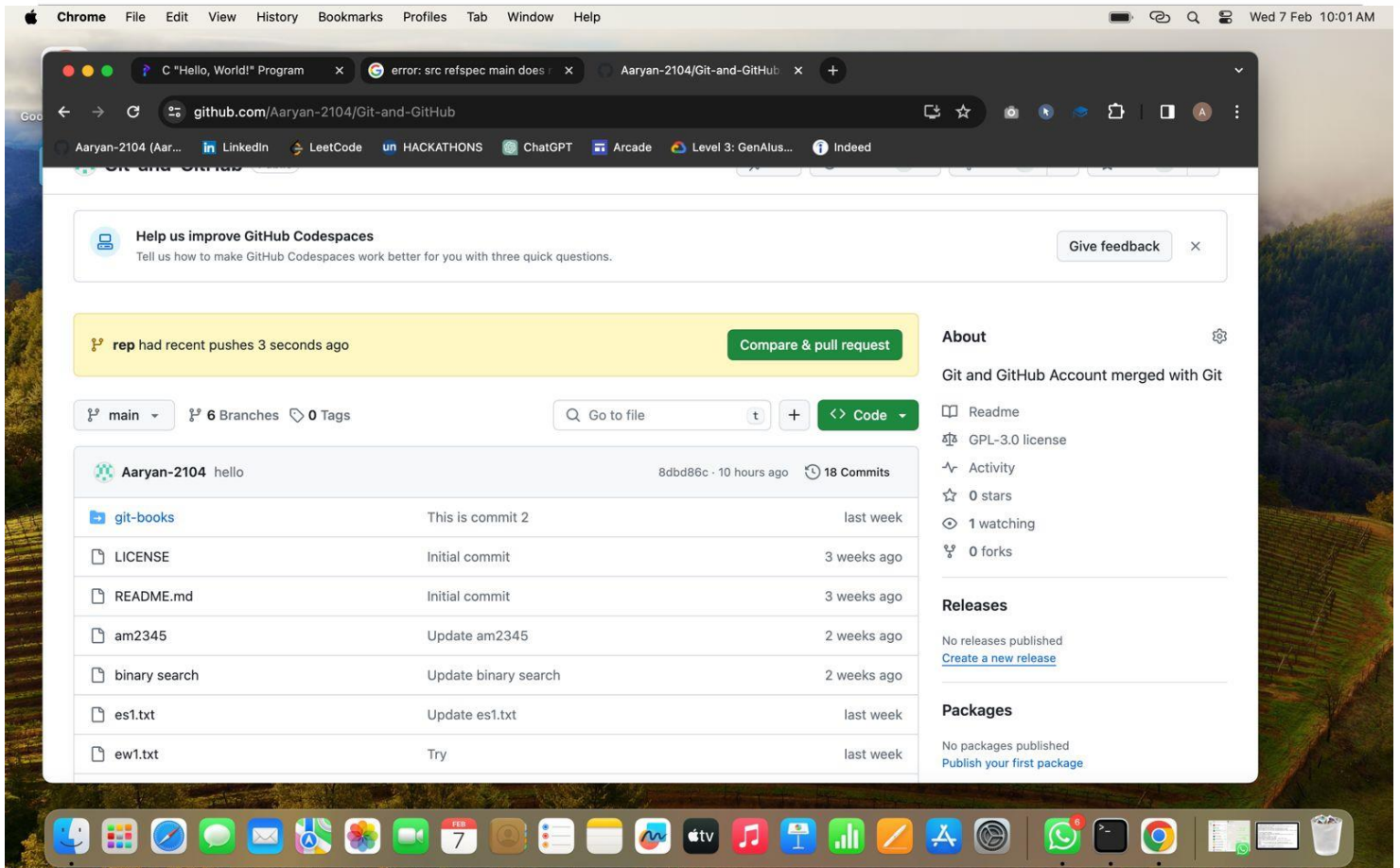
```
aaryans-MacBook-Air:~ aaryanmaheshwari$ cd Git-and-GitHub
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ vi exp.c
[aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git add exp.c
[aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git commit -m"first program"
[main 951e187] first program
 2 files changed, 8 insertions(+), 1 deletion(-)
 create mode 100644 exp.c
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git push origin main
Counting objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 451 bytes | 451.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Aaryan-2104/Git-and-GitHub.git
 8dbd86c..951e187  main -> main
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git checkout -b rep
Switched to a new branch 'rep'
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ vi exp.c
[aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git add .
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git commit -m"branch committ"
[rep 1be7ce2] branch committ
 1 file changed, 1 insertion(+), 1 deletion(-)
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git push origin rep
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 381 bytes | 381.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'rep' on GitHub by visiting:
remote:   https://github.com/Aaryan-2104/Git-and-GitHub/pull/new/rep
remote:
To https://github.com/Aaryan-2104/Git-and-GitHub.git
 * [new branch]      rep -> rep
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ █
```

*Commands related to the experiment on GitBash*

```
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$ git diff rep
diff --git a/exp.c b/exp.c
index b2ae9c5..5615943 100644
--- a/exp.c
+++ b/exp.c
@@ -1,7 +1,7 @@
#include <stdio.h>
int main() {
    // printf() displays the string inside quotation
-   printf("Hola amigoes! This side Aaryan Maheshwari");
+   printf("Hello, World!");
    return 0;
}

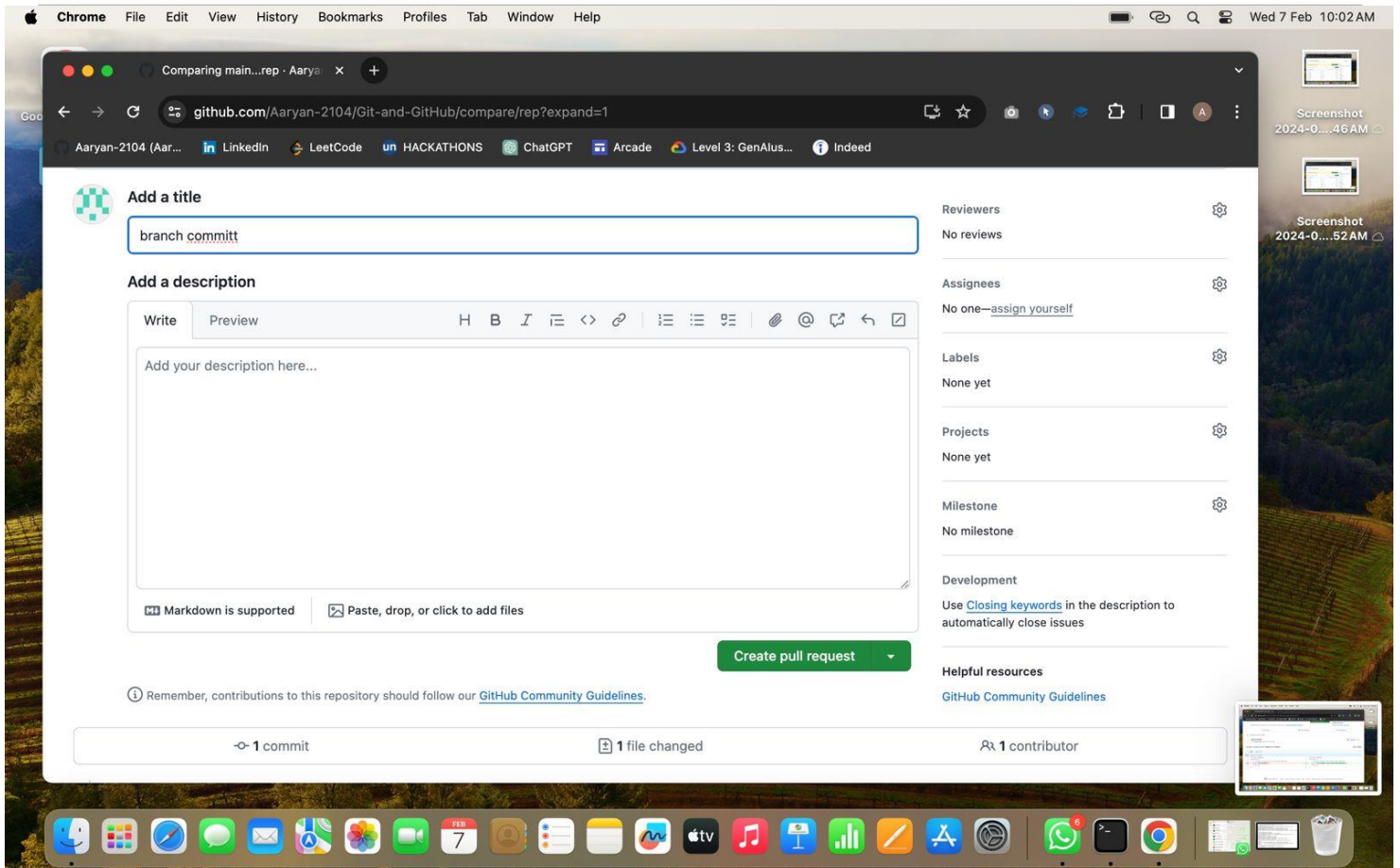
aaryans-MacBook-Air:Git-and-GitHub aaryanmaheshwari$
```

*Continued Commands related to the experiment on GitBash*

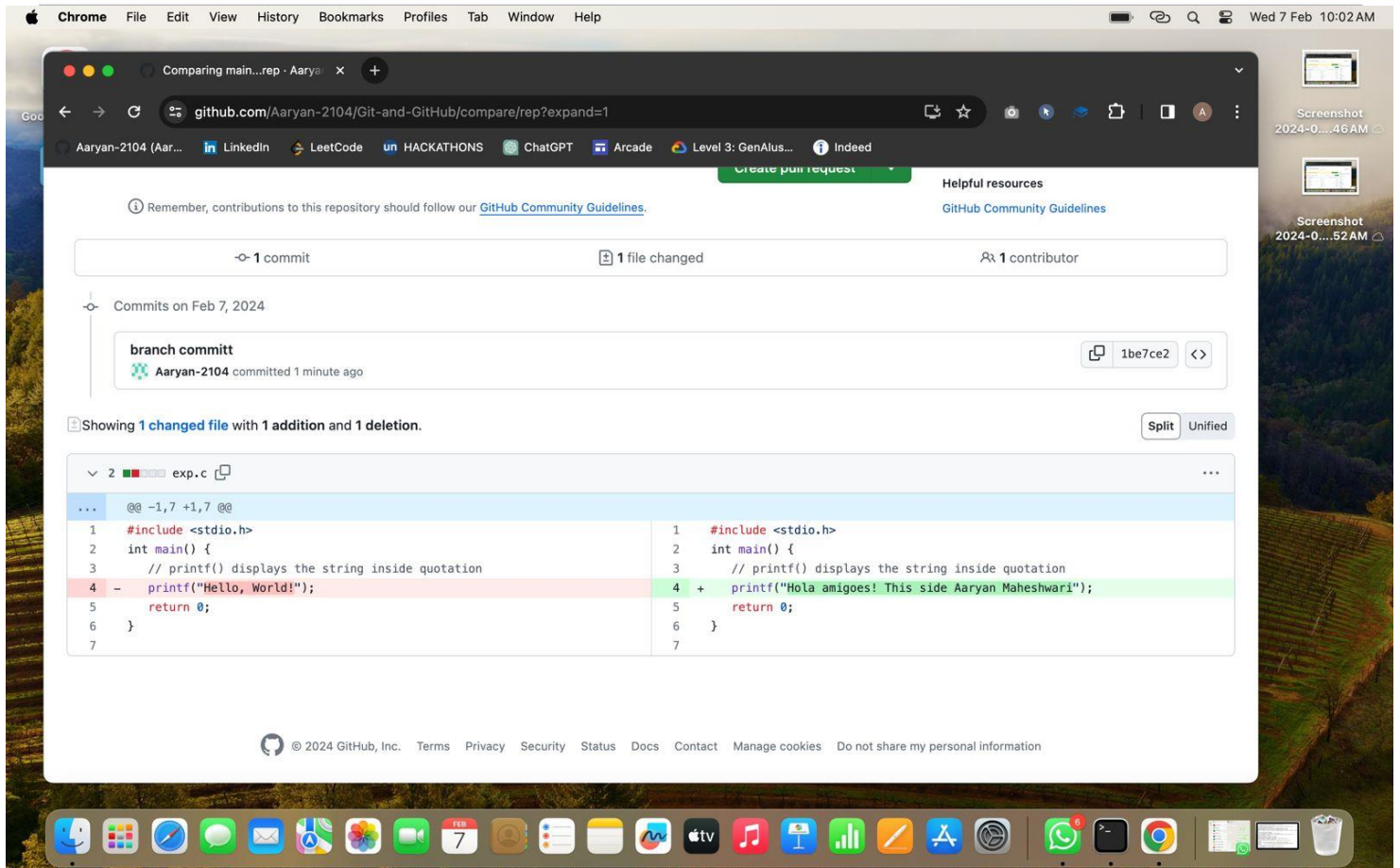


*Check for Request onto the account*

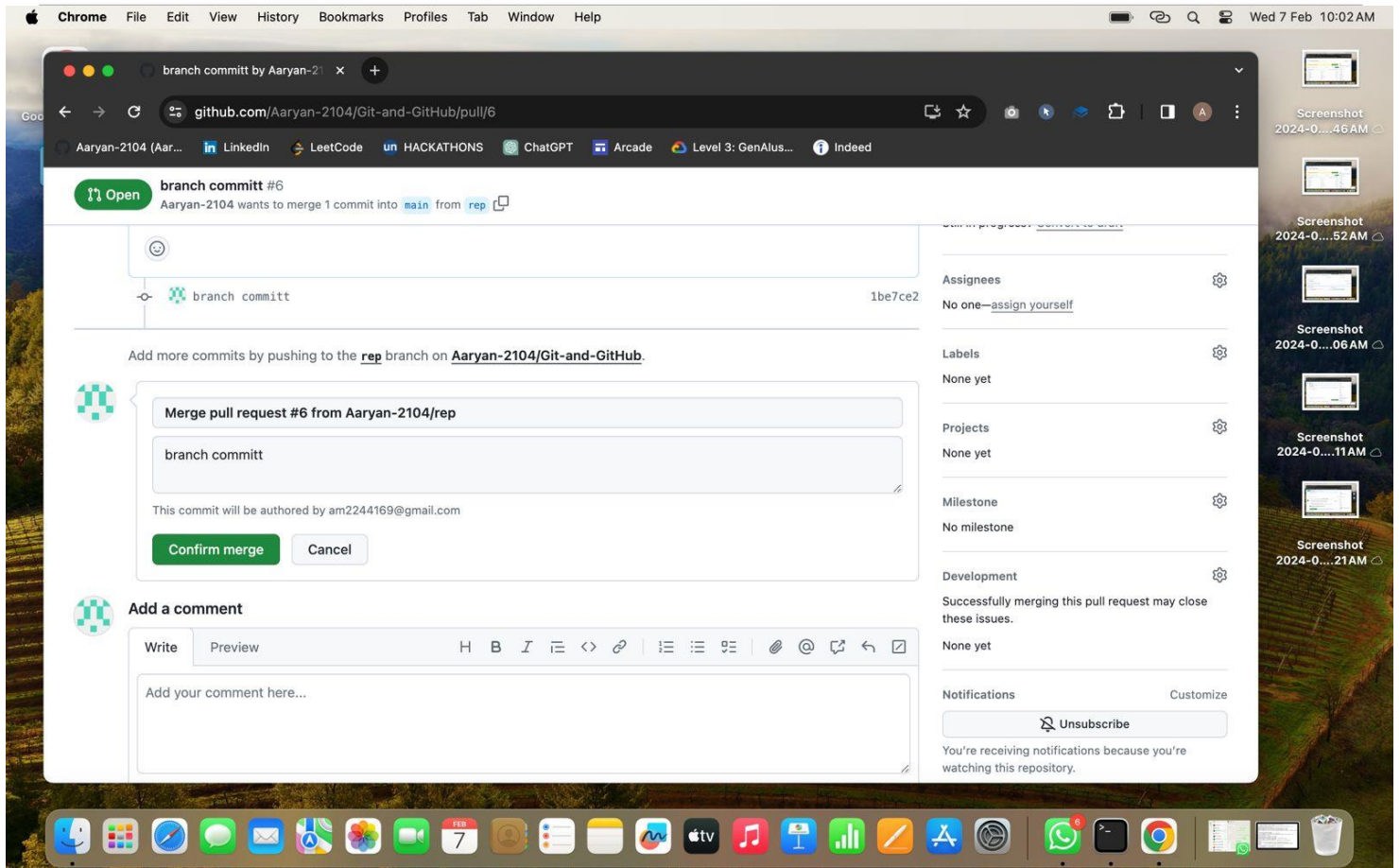




*Name the commit*



*Review the changes*



Chrome File Edit View History Bookmarks Profiles Tab Window Help

branch committ by Aaryan-2104

github.com/Aaryan-2104/Git-and-GitHub/pull/6

Aaryan-2104 (Aar... LinkedIn LeetCode HACKATHONS ChatGPT Arcade Level 3: GenAlus... Indeed

Open branch committ #6

Aaryan-2104 wants to merge 1 commit into main from rep

branch committ 1be7ce2

Add more commits by pushing to the rep branch on Aaryan-2104/Git-and-GitHub.

Merge pull request #6 from Aaryan-2104/rep

branch committ

This commit will be authored by am2244169@gmail.com

Confirm merge Cancel

Add a comment

Write Preview

Add your comment here...

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

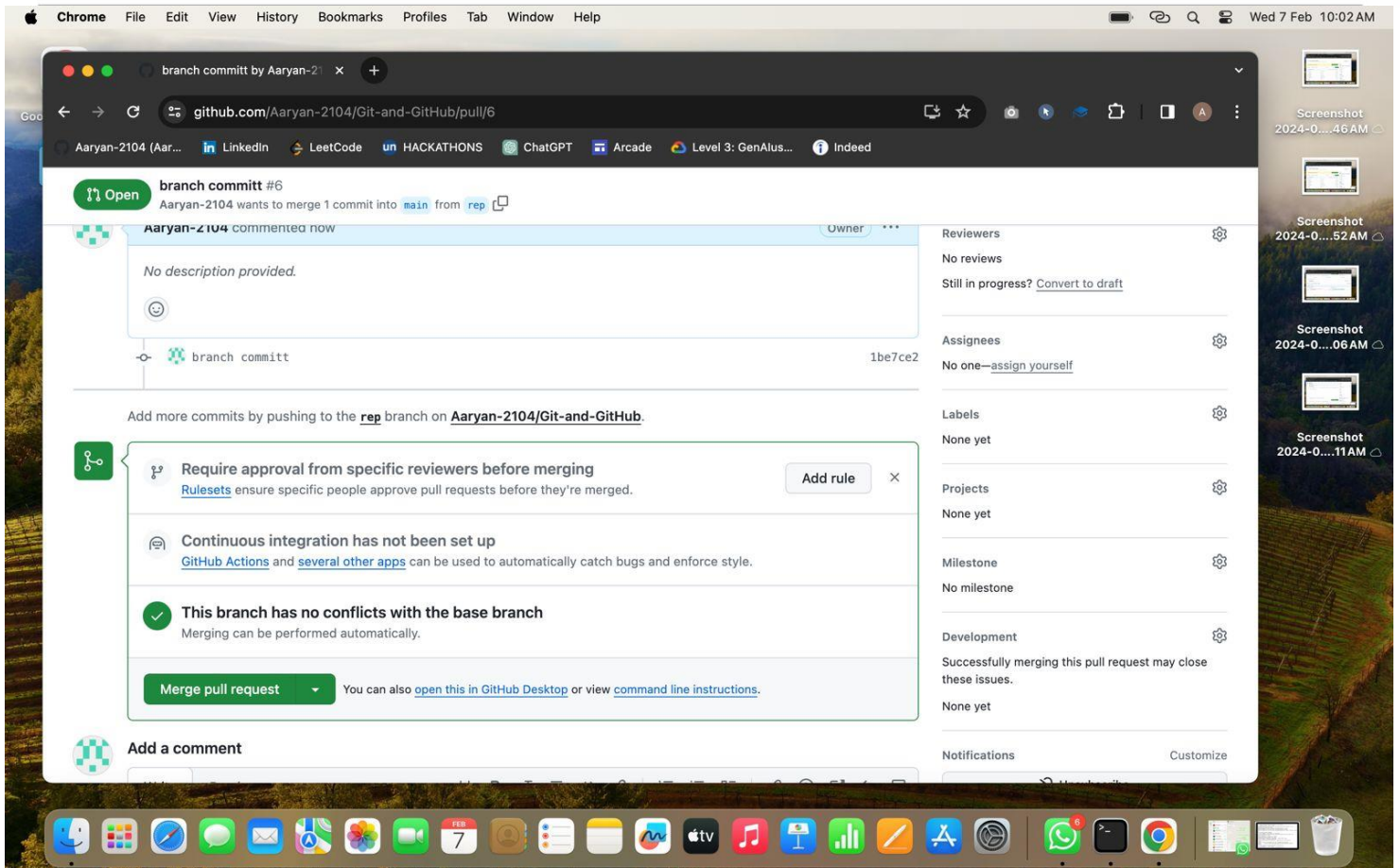
Customize

Unsubscribe

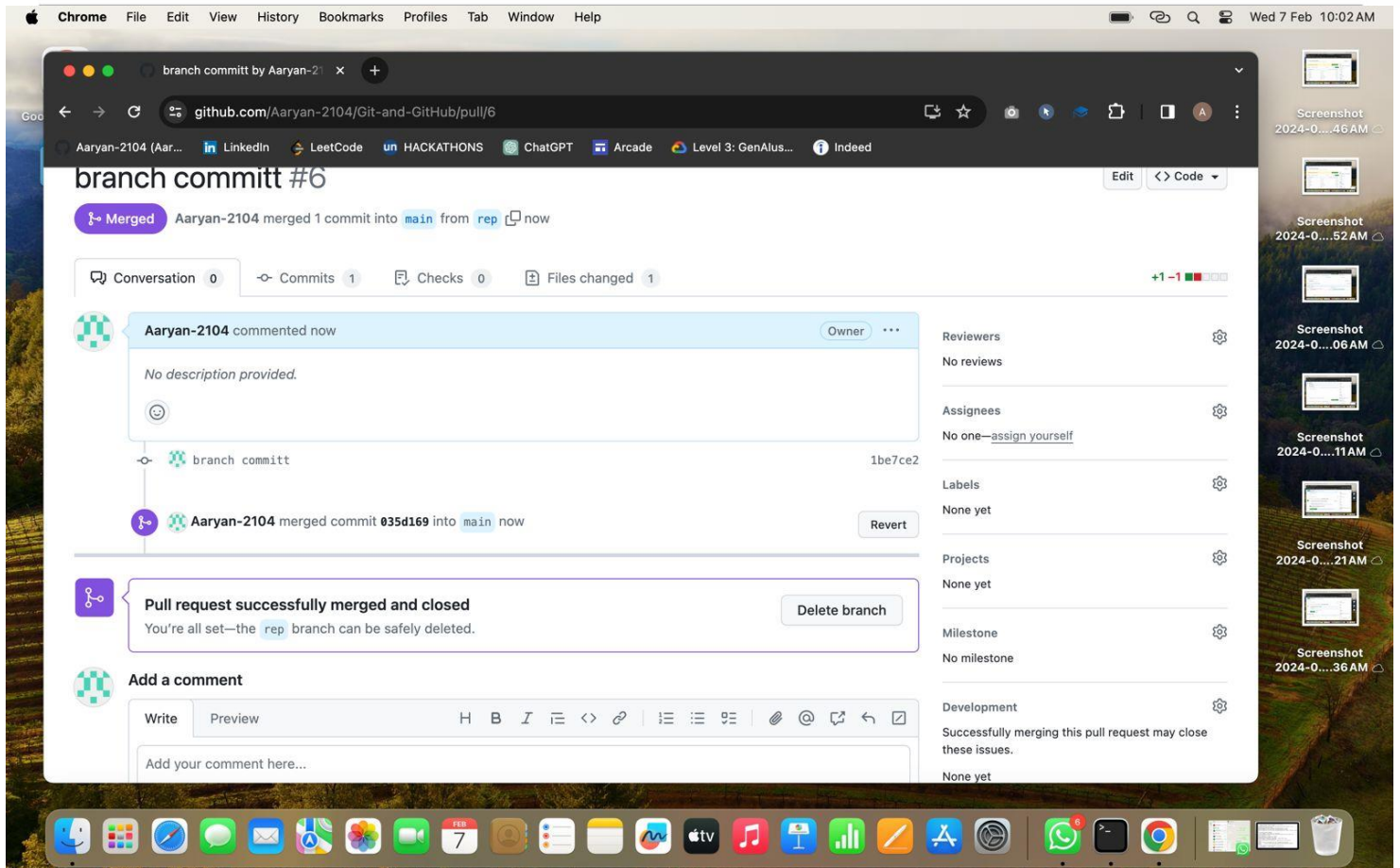
You're receiving notifications because you're watching this repository.

*Confirm the Merge Request*





*Verify the request*



The screenshot shows a web browser window displaying a GitHub pull request titled "branch committ #6". The pull request is from the "rep" branch to the "main" branch, merged by "Aaryan-2104". The interface includes a comment section with a message "No description provided." and a status message "Pull request successfully merged and closed". The right sidebar shows various settings like Reviewers, Assignees, Labels, Projects, Milestone, and Development. The desktop background features a landscape image with several "Screenshot" thumbnails on the right and a dock with various application icons at the bottom.

*Successfully created*



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**5. Result/Output/Writing Summary:-** In this experiment, we edited a file in the local repository and showed the changes on the remote repository and vice versa. For this purpose, we have made use of both Git and GitHub.

**Learning outcomes (What I have learnt):**

1. Learnt how to create a branch.
2. Learnt how to push the changes to the remote repository.
3. Learnt how to pull the changes from the remote repository.
4. Learnt to merge two branches.
5. Learnt how to resolve merge conflicts.

**Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			



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