

Using GitHub and Jenkins for Website Hotel

Group 3

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Class : 3SC4

CEP CCIT FAKULTAS TEKNIK UNIVERSITAS INDONESIA 2019

PROJECT ON

Using GitHub and Jenkins for Website Hotel

Developed by

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- 2. Muhammad Farhan Alfikri



Using GitHub and Jenkins for Website Hotel

Batch Code : 3SC4

Start Date : January 25th 2021

End Date : January 28th 2021

Name of Faculty : Mr. Tri Agus Riyadi, S.Kom, M.T

Names of Developer :

1. Ryan Ibrahim Pratama

2. Muhammad Farhan Alfikri

Date of Submission: January 28th 2021



CERTIFICATE

CERTIFICATE					
This is to certify that this report titled "Using GitHub and Jenkins for Website Hotel" embodies the original work done by Ryan Ibrahim Pratama and Farhan. Project in partial fulfillment of their course requirement at NIIT.					
Coordinator:					

Mr. Tri Agus Riyadi, S.Kom, M.T

ACKNOWLEDGEMENT

First of all, thanks to Almighty God because of the help of God, authors finished writing the paper entitled "Using GitHub and Jenkins for Website Hotel" right in the calculated time.

The purpose in writing this paper is to fulfill the assignment that given by Mr. Tri Agus Riyadi, S.Kom, M.T as lecturer in CEP-CCIT FTUI.

In arranging this paper, the writer truly get lots challenges and obstructions but with help of many individuals who can't be mentioned one by one, those obstructions could have passed. Writer also realized there are still many mistakes in process of writing this paper.

Because of that, the writer says thank to all individuals who helps in the process of writing this paper. Hopefully God replies all helps and bless all. The writer realized that this paper is still not perfect in arrangement and the content. Then the writer the criticism hopes from the readers can help the writer in perfecting the next paper. Last but not the least hopefully, this paper can help the readers to gain more knowledge about This project.

SYSTEM ANALYSIS

System Summary:

The project entitled "Using GitHub and Jenkins for Hotel Websites" was created so that developers can more easily work in groups, namely collaborating with other developers in an orderly and neat manner.

This program is made to store files that have been created and edited simultaneously with other developers. In this writing, the author uses html and css files that are integrated with GitHub and Jenkins.

on GitHub the developer can develop files simultaneously, and in Jenkins the developer can see the final build of the project.

TECHNOLOGY USED

Technology used to support the project:

1. GitHub

GitHub is a development platform. From open source to business, you can host and review code, manage projects and build software. GitHub is a shared web host service for software development projects that uses Git version control systems and internet hosting services. It is widely used for computer code.

2. Git Bash

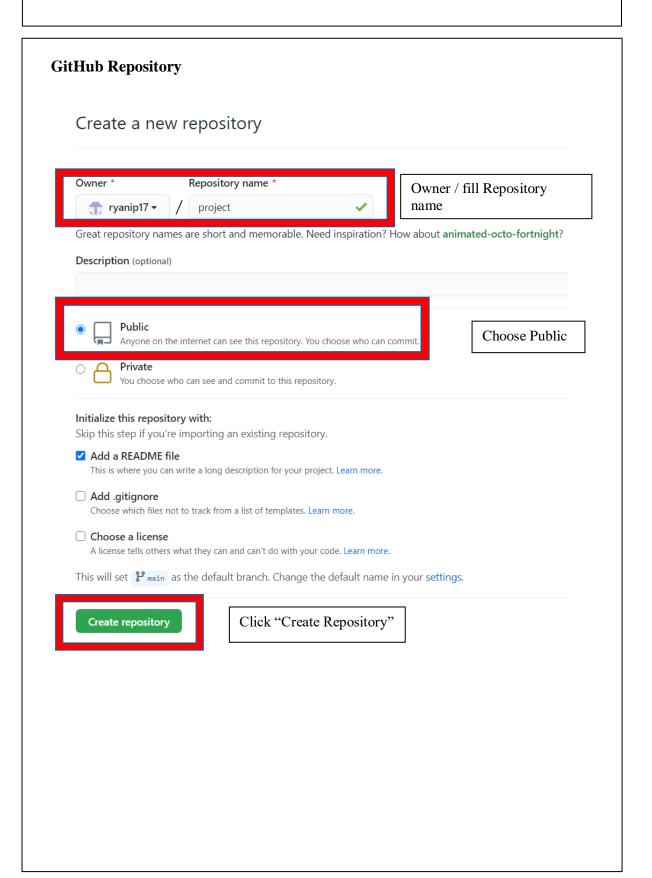
Git for Windows provides a Bash emulation used to run Git from the command line. Bash is an acronym for Bourne Again Shell. A shell is a terminal application used to interface with an operating system through written commands.

3. Jenkins

Jenkins is the leading open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project.

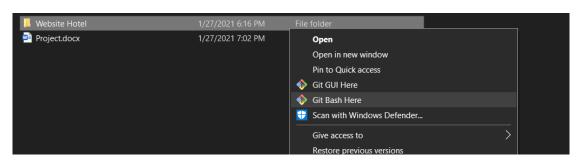
It is a server-based application and requires a web server like Apache Tomcat. The reason Jenkins became so popular is that of its monitoring of repeated tasks which arise during the development of a project. For example, if your team is developing a project, Jenkins will continuously test your project builds and show you the errors in early stages of your development.

By using Jenkins, software developer can accelerate their software development process, as Jenkins can automate build and test at a rapid rate.



Runnig Git Bash

1. Click "Git Bash Here" on the file folder.



2. Command for configuring name and email

```
MINGW64:/c/Users/Ryan/Documents/3SC4/materi pak tar/project 2/Website H... — X

Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)

$ git config --global user.name "RYAN"

Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)

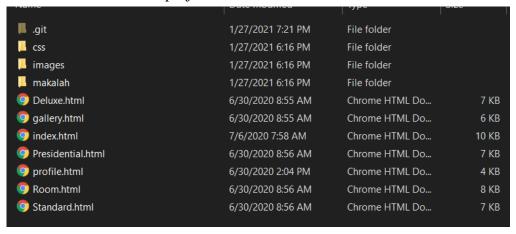
$ git config --global user.email "ryan123ibrahim@gmail.com"

Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)
```

3. Create a git repository on files, this command is used to start a new repository.

\$ git init
Initialized empty Git repository in C:/Users/Ryan/Documents/3SC4/materi pak tar/
project 2/Website Hotel/.git/

4. Fill in the file with the project.



5. Run "git status" command, This command lists all the files that have to be committed.

6. Run the command "git add." to add all inserted source files.

```
Ryan@Ryan MINGw64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master) $ git add .
```

7. Then, run the command "git commit -m" "First Commit (add all source file)"

```
Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)

§ git commit -m "First Commit (add all soruce file)"
[master (root-commit) a5f7366] First Commit (add all soruce file)

50 files changed, 2166 insertions(+)
create mode 100644 Presidential.html
create mode 100644 Presidential.html
create mode 100644 Standard.html
create mode 100644 Css/booking.css
create mode 100644 css/footer.css
create mode 100644 css/gallery.css
create mode 100644 css/profile.css
create mode 100644 css/profile.css
create mode 100644 css/profile.css
create mode 100644 css/prom.css
create mode 100644 css/prom.css
```

8. Run the command "git log" to see the status of any additions / changes that have been made.

```
Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)

§ git log
commit a5f736cd4cd159626462ed51fba5839b42fc8dc7 (HEAD -> master)
Author: RYAN <ryan123ibrahim@gmail.com>
Date: Wed Jan 27 19:52:11 2021 +0700

First Commit (add all soruce file)
```

9. Attempting to modify the contents of the file. Then run the command "git status" to see if any files were edited.

```
an@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)
$ git status
On branch master
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)
```

10. Run the command "git add index.html" then give it the commit, and we can see it through the command "git log".

```
Documents/3SC4/materi pak tar/project 2/Website Hotel (master)
   git add index.html
Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)
$ git commit -m "Second commit (Modified file index.html)"
[master 252c03f] Second commit (Modified file index.html)
1 file changed, 1 insertion(+), 1 deletion(-)
 Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)
Ryaneryan Martener, 7
git log
commit 252c03f0b8289d95c6f84dc35a9516a793a7b8be (HEAD -> master)
Author: RYAN <ryan123ibrahim@gmail.com>
Date: Wed Jan 27 20:08:39 2021 +0700
       Second commit (Modified file index.html)
commit a5f736cd4cd159626462ed51fba5839b42fc8dc7
Author: RYAN <ryan123ibrahim@gmail.com>
Date: Wed Jan 27 19:52:11 2021 +0700
       First Commit (add all soruce file)
```

11. Run the command "git diff (id commit)" to see the detailed modification

```
syan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)
$ git diff a5f736cd4cd159626462ed51fba5839b42fc8dc7
diff --git a/index.html b/index.html
index f23f461..f7d2081 100644
--- a/index.html
+++ b/index.html
@@ -32,7 +32 7.00
  @ -32,7 +32,7
                 <div class="background" style="margin: 0;">
                        <img src="images/bg3.jpg" width="1519" >
<div class="text1">
                                <h2>Quality is priority!</h2>
                                <hr>
                          </div>
                 </div>
```

12. Remote to the GitHub repository by executing the command "git remote add origin (repository address)". Then, run the "git push -u origin main" command to enter data into the repository.

```
Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)

$ git remote add origin https://github.com/ryanip17/project.git

Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (master)

$ git branch -M main

Ryan@Ryan MINGW64 ~/Documents/3SC4/materi pak tar/project 2/Website Hotel (main)

$ git push -u origin main

Enumerating objects: 60, done.

Counting objects: 100% (60/60), done.

Delta compression using up to 8 threads

Compressing objects: 100% (59/59), done.

Writing objects: 100% (59/59), 21.34 MiB | 255.00 KiB/s, done.

Total 59 (delta 9), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (9/9), done.

To https://github.com/ryanip17/project.git

17f471f..cac9291 main -> main

Branch 'main' set up to track remote branch 'main' from 'origin'.
```

13. When the developer run "git log" after modified the file with 2 user developer, and pull the data from github, and the developer can see the log.

```
Ryan@Ryan MINGw64 ~/Documents/3SC4/materi pak tar/project 2/website Hotel (master)

S git log
commit 920fdb8a67492ceeedacSa7fd8476f524a0faef (HEAD -> master, origin/master)
Author: Farhanalfikrio411 <55526178+Farhanalfikrio411@users.noreply.github.com>
Date: Thu Jan 28 08:15:05 2021 +0700

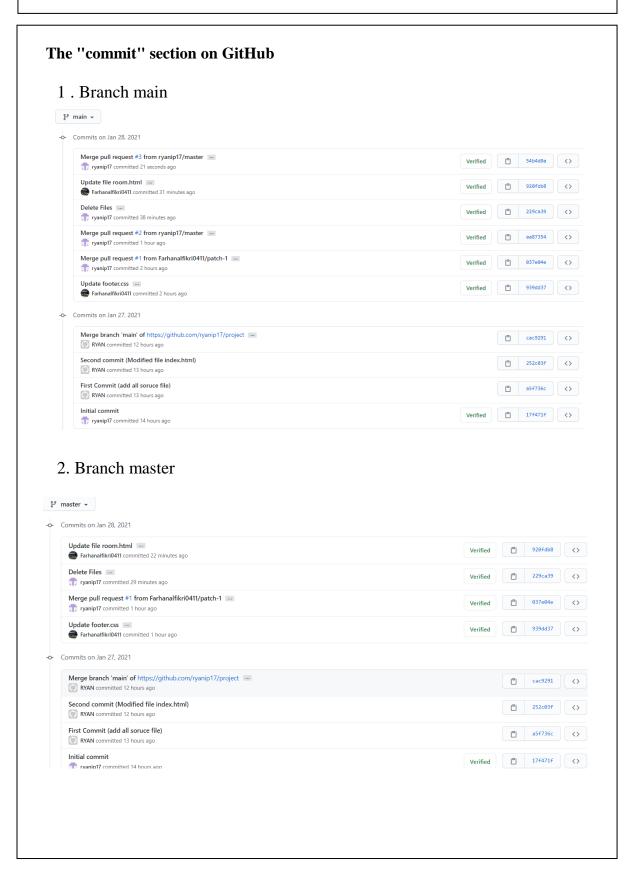
Update file room.html
modified css internal and change some text
commit 229ca3911b666e873070f7dbc76918fc493e1164
Author: ryanip17 <77739013+ryanip17@users.noreply.github.com>
Date: Thu Jan 28 08:08:45 2021 +0700

Delete Files
this file is not of part html css
commit 037e04e1c95103b42d7f84950c1bfd2d432397c9
Merge; cac2921 939d37
Author: ryanip17 <77739013+ryanip17@users.noreply.github.com>
Date: Thu Jan 28 07:14:17 2021 +0700

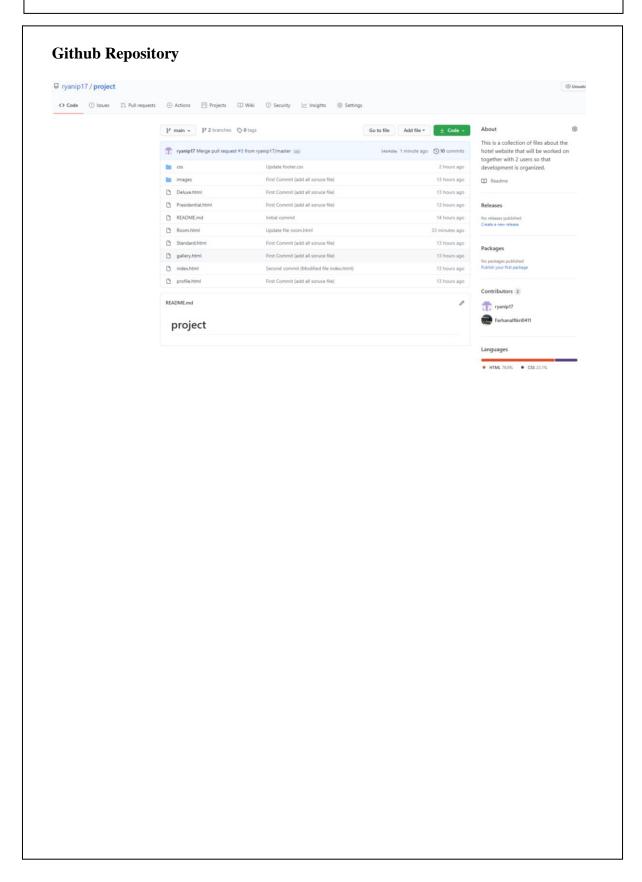
Merge pull request #1 from Farhanalfikri0411/patch-1
:...skipping...
commit 920fdb8a67492ceeedacSa7fd8476f524a0faef (HEAD -> master, origin/master)
Author: Farhanalfikri0411 <55526178+Farhanalfikri0411@users.noreply.github.com>
Date: Thu Jan 28 08:15:05 2021 +0700

Update file room.html
modified css internal and change some text
commit 229ca3911b666e873070f7dbc76918fc493c1164
Author: ryanip17 <77739013+ryanip17@users.noreply.github.com>
Date: Thu Jan 28 08:08:45 2021 +0700

Delete Files
this file is not of part html css
```



Network Graph Network graph Timeline of the most recent commits to this repository and its network ordered by most recently pushed to. Owners Farhanalfikri0411 ryanip17 **Contributors** Contributions: Commits ▼ Jan 17, 2021 – Jan 28, 2021 Contributions to main, excluding merge commits Farhanalfikri0411 ryanip17

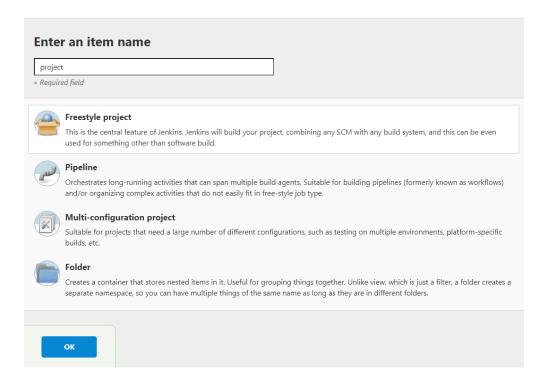


Jenkins Configuration

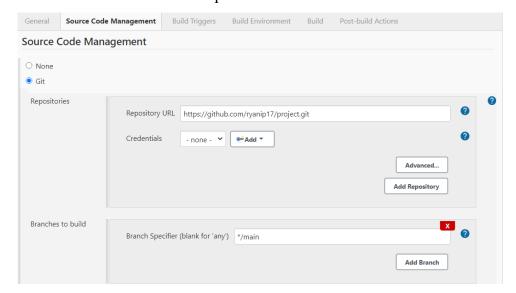
1. Click New item at Dashboard



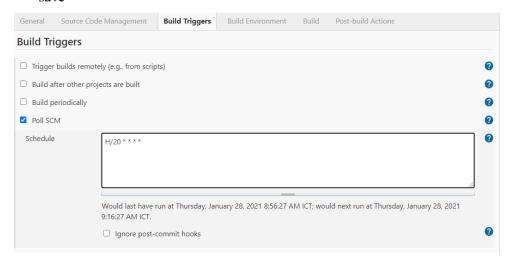
2. Enter an item name, and click Freestyle Project, and then click "ok"



- 3. Go to tab Source Code Management, and choose git:
 - Fill in the data Repository URL
 - Fill in the data Brench Specifer



4. Click tab Build Triggers and choose Poll SCM and fill the schedule, and then click "save"



- 5. Click Build Now, and check at Build History, then go to Console Output
 - Console Output (branch main)



Console Output (branch master)



ACTIVITY LIST

N.T.	A .: *:	C 1.	E 114	D (): 1 1
No	Activity	Start date	End date	Person(s) involved
1	Creating Repository in GitHub	25/01/2021	25/01/2021	Ryan & Farhan
2	Run command with Git Bash	26/01/2020	27/01/2020	Ryan & Farhan
3	Push to GitHub Repositry	26/01/2020	27/01/2020	Ryan & Farhan
4	Collaborator and modified the file	27/01/2020	27/01/2020	Ryan & Farhan
5	Create an item on Jenkins	28/01/2020	28/01/2020	Ryan & Farhan
6	Build the project jenkins	28/01/2020	28/01/2020	Ryan & Farhan