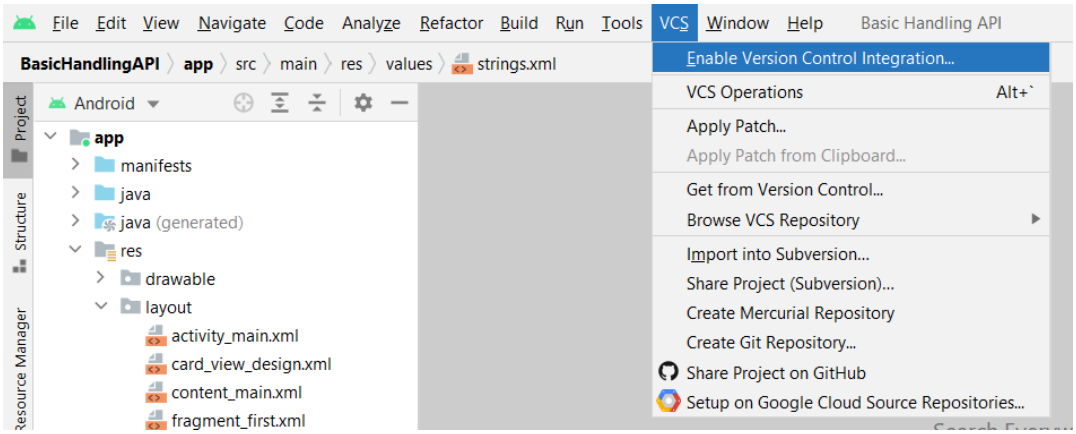
Version Controlling with Android Studio

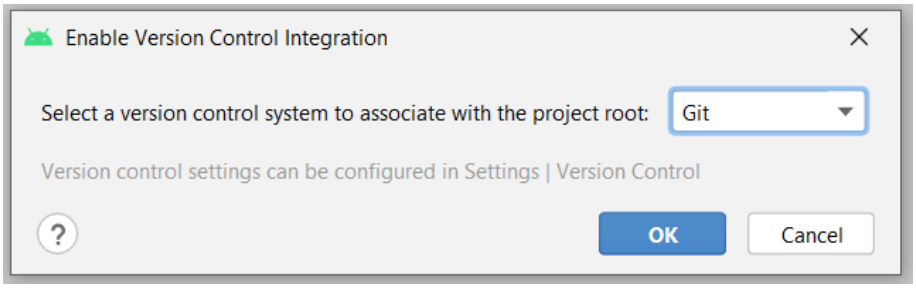
- **Need to have Git installed on your OS.**
- **Sign In to your GitHub account.**
- **Open your project in Android Studio.**

Step 01:

- Go to "**VCS**" in the option menu and choose **"Enable Version Control Integration"**



- After clicking the **Enable Version Control Integration** a pop up will arise like following. Then select **Git** from the dropdown menu and click **OK.** This will initialize the project for GitHub.



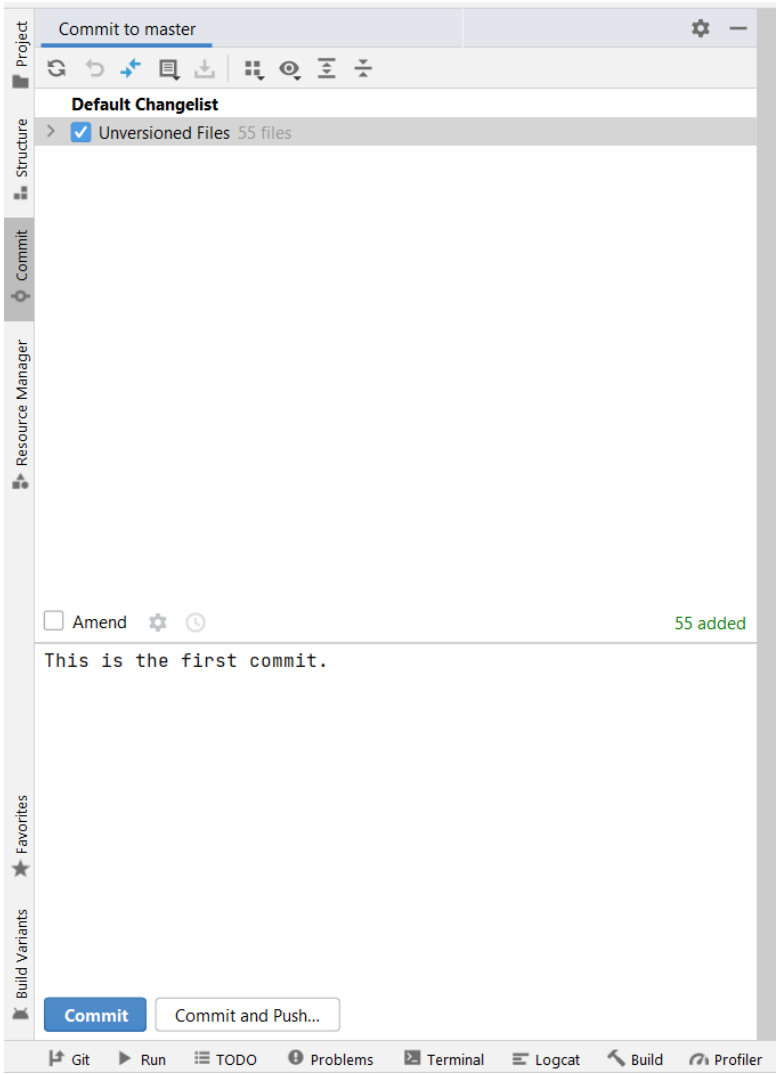
Step 02:

- Now a new icon set will appear in the toolbar.

- Click on green tik present in there. Basically, symbol refers to **Commit** and what it does is it will collect the all unversioned files and make them ready to update in GitHub.

- After clicking this a new screen will pop up like the following. Now,

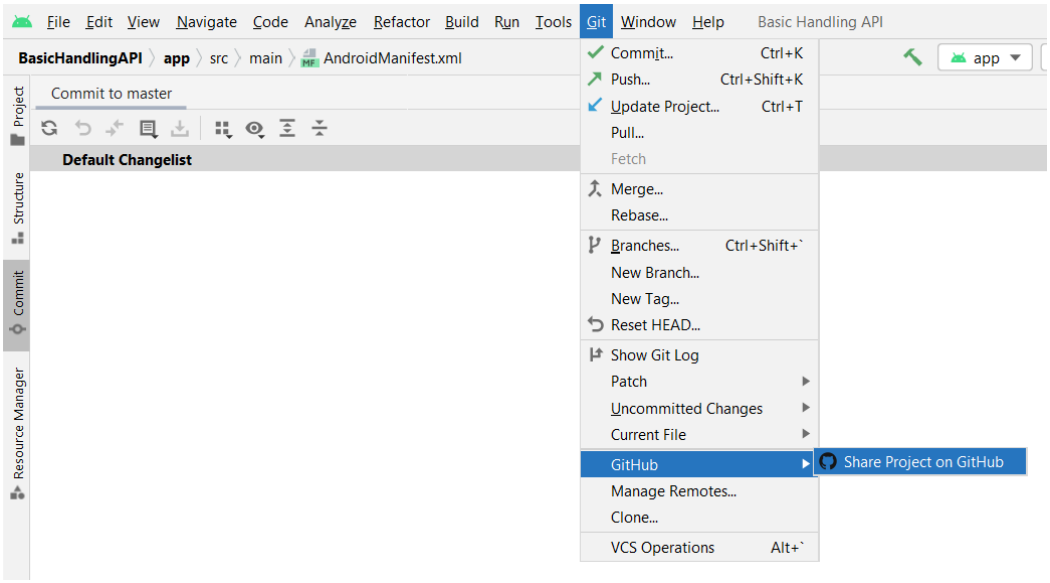
    1) First select the **unversioned files**.
    2) input the **Commit Message** as “Initial Commit” or “This is the first commit” or something like that.
    3) Click on the **Commit** button.



- Now the project is ready to upload in GitHub.

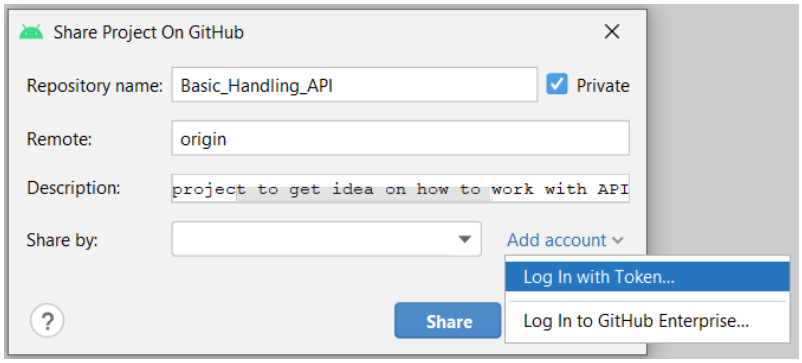
Step 03:

- The last step to be followed is to go to **Git** then, select **Share Project on GitHub**.

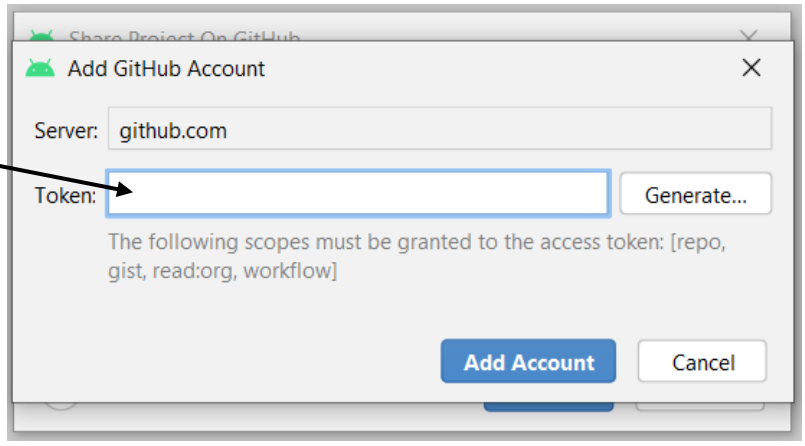


- After clicking this a pop up will arise where user has to enter,

  - ✓ **Repository Name:** Give the name you give to the repository
  - ✓ Tick whether is to be **private** or untick to make it public
  - ✓ **Description:** Give a small description about the repository
  - ✓ GitHub account that you **share by**
  - ✓ OR Add account via
    - Log in with token...
      - ❖ If you chose this then, you have to generate a token and paste it in the space of the pop up appeared just like below.



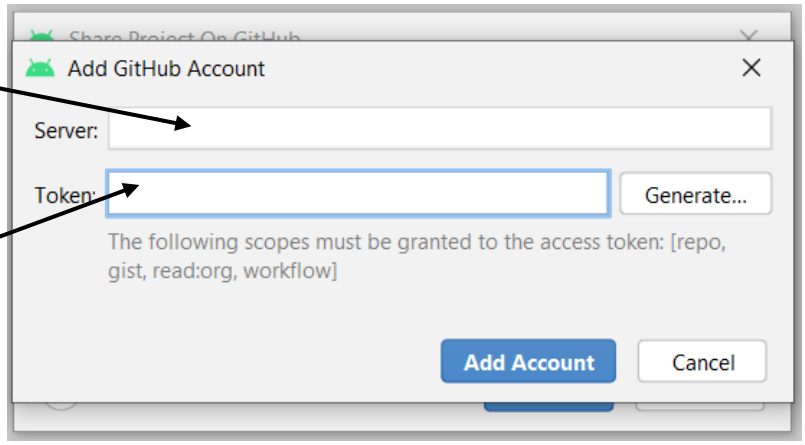
Paste the generated token here

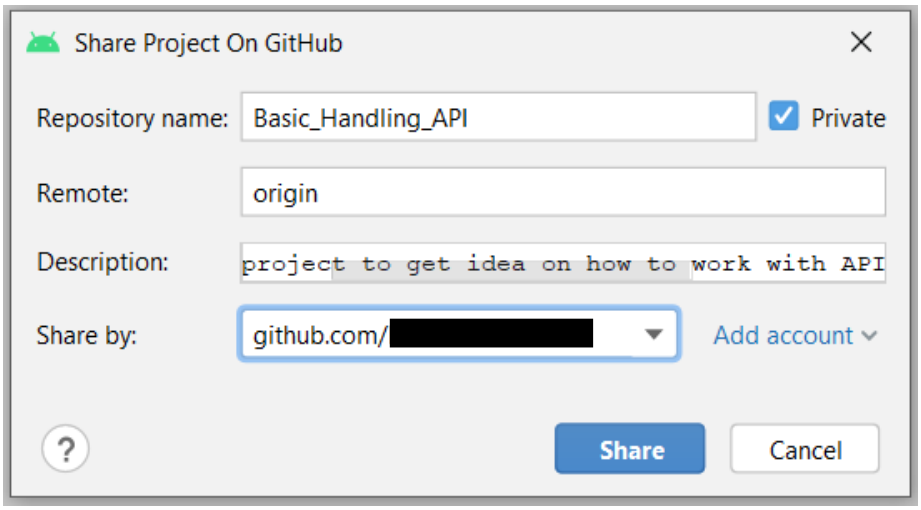


- OR Log into GitHub Enterprise...
  - ❖ If you chose this then, you have to give a server name additionally and generate a token and paste it in the space of the pop up appeared just like above.

Give the server name here

Paste the generated token here



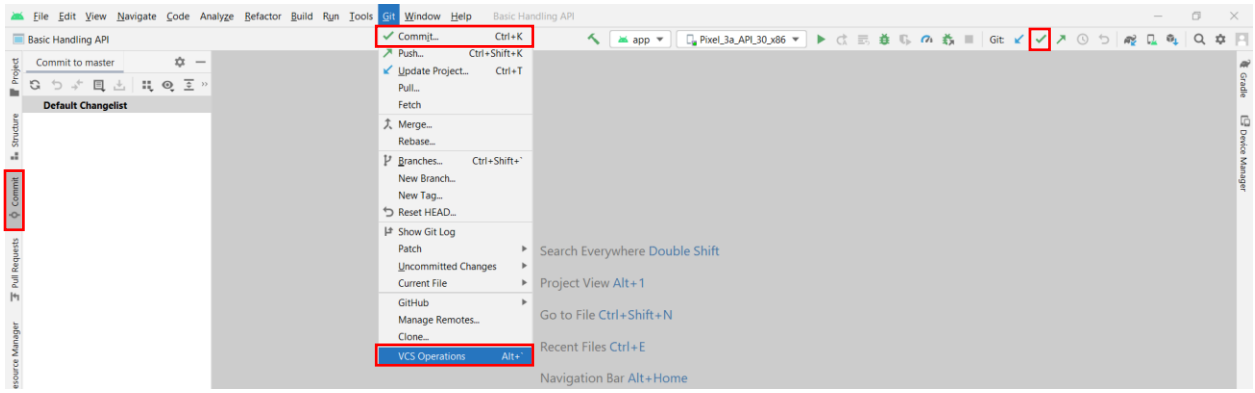


- After completing all the fields correctly then, click on **Share**.
- Done.
- Go to GitHub and check for the repository after refreshing the repository.

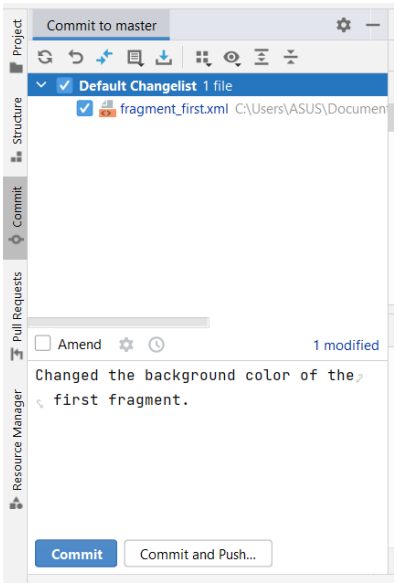
After doing modifications to the code

- Click on **Commit**.

NOTE: There are four such places. Included in the following picture.



- After clicking this a new screen will pop up like the below.

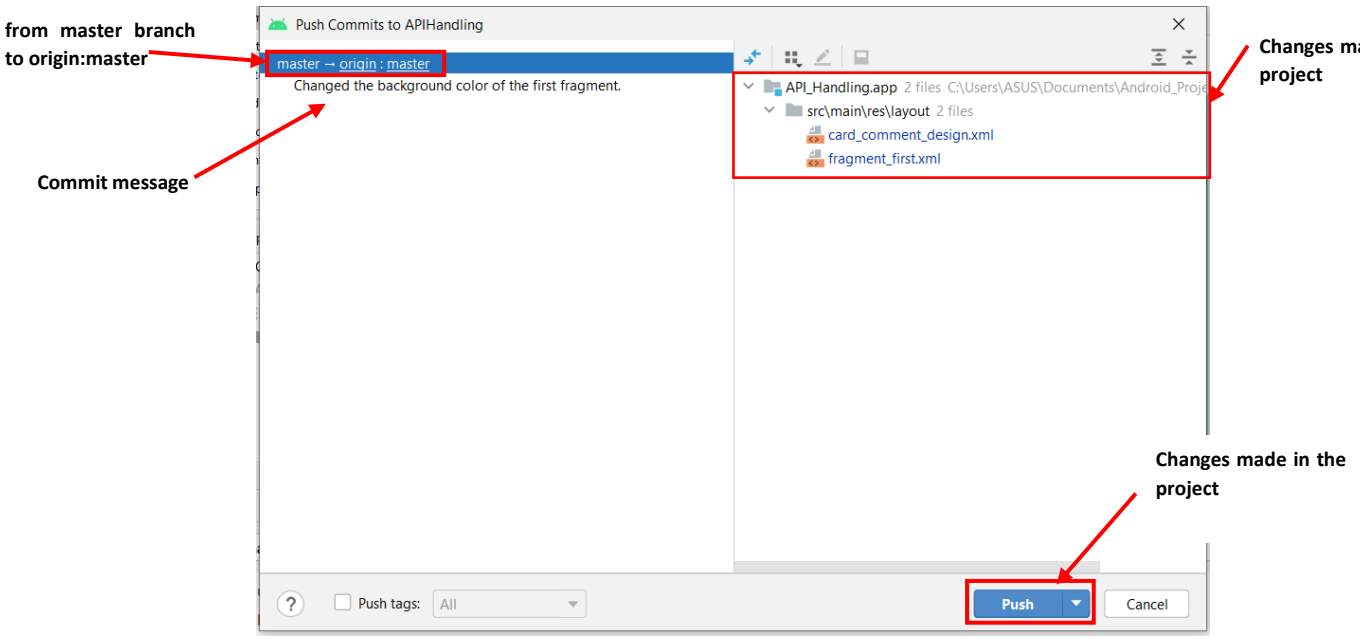


1) First select the **Default Changelist**.
2) input the **Commit Message** as you wish but meaningfully what you have done newly.
3) Click on the **Commit and Push** button.

NOTE:

- **Here commit does collect all the changes done in stage area and wraps them to put in local repo.**
- **Push does send the content in local repo to the remote repo.**

➢ After clicking **"Commit and Push"** button then, a pop up will appear like the following.



➢ Then project in the local repo gets push into the origin/master repo here.

➢ After successful committed and pushed then, check the GitHub repository to check whether the files we pushed have been committed and pushed into the relevant branch.

NOTE:

- **You can create new branches and try other commands at your leisure if you need to.**
- **This guide guides you to just upload a project created in Android Studio to GitHub using the Version Controlling environment supported by Android Studio.**
- **Here we just deal directly with the remote repo master.**
- **If we wish to work with a branch then you have to checkout to the relevant branch and do the modifications and commit and push to that remote branch.**

Refer:

- What is git commit, push, pull, log, aliases, fetch, config & clone | by Amit Prajapati | MindOrks | Medium
- P 01: Version Control With Git in Android Studio (exydev.tn)