



# 5-Days Workshop on Git and GitHub

## Day 4 – Creating & Maintaining a Project on GitHub

24<sup>th</sup> February 2022

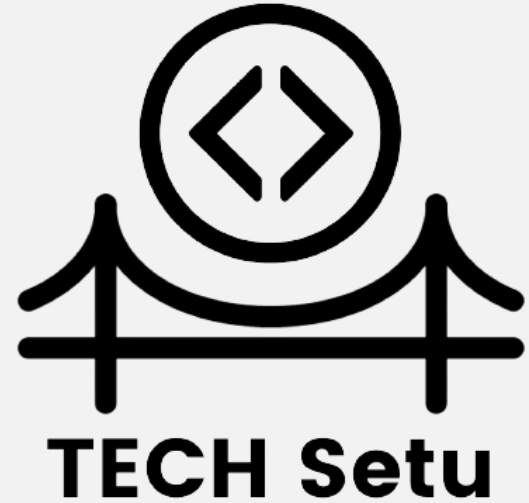
By,  
**Microsoft Learn Student Ambassador  
Community**



# Chat Issue Solved

- Go to this link (<https://stin.to/67o1o>) and we can chat online without any hurdles.
- We can also chat via Discord after this session.

**We are proud to  
announce our  
new community  
partner.**



# Let's Revise

- To clone use command: `git clone`
- To upload use command: `git push`
- To download use command: `git pull`
- Always pull before push.

**It's time to have  
some fun !!**

**Be ready to**

**Kahoot!**

**Supported  
by:**



**Sikshya Technology**



# Introduction to FOSS

# What is Open Source Software?

- Open source software is code that is published publicly, and anyone can see, use, or modify the code for their needs.
- Benefits of FOSS as a developer;
  - No more re-inventing the wheels,
  - High quality software,
  - Vendor in-dependent,
  - Huge community,
  - Lower software costs, etc.

# What is Open Source Software?

- Benefits of FOSS as a contributor;
  - Faster marketing time,
  - Unlimited contributors access for free,
  - Unlimited ideas,
  - Unlimited networking opportunity,
  - Best way to show your coding skills,
  - Better software, etc.





# Contributing to Open-Source

# Some Terminologies

- **Fork:** A fork is a copy of a repository that allows you to freely experiment with changes without affecting the original project.
- **Pull requests:** A PR is request sent to the repo to merge new commits into the repo.
- **Issues:** Issues is what it sounds. It can be a new feature, bug, documentation problem and many more.

# Workflow to Contribute

1. Find an Issue or create one,
2. Ask maintainer to assign the issue,
3. Fork the repo,
4. Clone the forked repo,
5. Make the changes in a different branch,
6. Commit those changes,
7. Create a PR,
8. Listen to Review and do changes if needed.



# Markdown Syntax

# Markdown Syntax (Heading)

**# Heading 1**

**## Heading 2**

**### Heading 3**

**#### Heading 4**

**##### Heading 5**

**##### Heading 6**

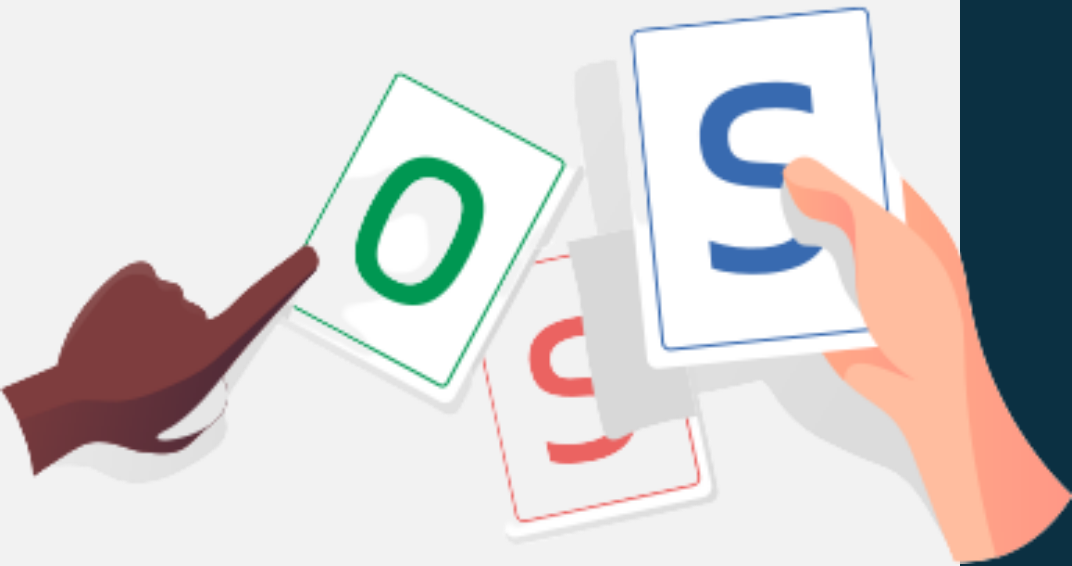
# Markdown Syntax (Formatting Texts)

- **Italic:** `*This makes text italic*` = *This makes text italic*
- **Italic:** `_This also makes text italic_` = *This also makes text italic*
- **Bold:** `**This makes text bold**` = **This makes text bold**
- **Bold:** `__This also makes text bold__` = **This also makes text bold**
- **Nested format:** `**This text is italic & bold**` = **This text is *italic* & bold**
- **Nested format:** `**This text is italic & bold**` = **This text is *italic* & bold**

# Markdown Syntax (Lists)

- Any line starting with number followed by period becomes ordered list,
- Any line starting with hyphen (-) becomes un-ordered list,
- You can nest lists.

**More on the CheatSheet.**



# Creating an Open Source Project



# Workflow to Contribute

- Create a repository on GitHub,
- Choose a License,
- Writing READMEs,
- Write contributing guidelines,
- Create Code of Conduct,
- Create an issue templates,
- Create a PR templates,
- Create issues,
- Start pushing and maintain project.

# About README.md

- A good README.md file most contain;
  - Introduction to the project,
  - Configuration & Installation instructions,
  - Operating instructions,
  - A file manifest,
  - Copyright & license information,
  - Contact information of Author,
  - Change Logs,
  - Acknowledgement.

# About CONTRIBUTING.md

- A good CONTRIBUTING.md file most contain;
  - Short links to important resources likes docs,
  - Testing instructions,
  - Environment details,
  - How to report a bug,
  - How to submit changes,
  - Where can one ask help, etc.

# About CHANGELOG.md

- Changelog file is a log of all notable changes.
- A good CHANGELOG.md file should follow format;

YYYY-MM-DD John Doe <johndoe@example.com>

\* myfile.ext (myfunction): my changes made  
additional changes

\* myfile.ext (unrelated\_change): my changes made  
to myfile.ext but completely unrelated to the above

\* anotherfile.ext (somefunction): more changes

# Thank you!

Please refer to the chat section on our Microsoft Teams for resources and feel free to ask any queries about this session in our discord channel **#git-workshop-query**.

