

# Chronicle Week-1

## Initial Project Checkpoints (Week 1 and 2)

- 1) Git and GitHub
- 2) Markdown,HTML,CSS,JavaScript
- 3) ReactJS - Hooks, JSX, Components
- 4) TailwindCSS
- 5) CodeMirror + YJS
- 6) WebSockets / WebRTC
- 7) Future architecture based stuff (Go,Web hosting, Mongo, Redis etc.)

## Week - 1 Tasks

### 1) Learn about Git and GitHub

Git is a powerful version control system that allows developers to track changes, collaborate on projects, and maintain code integrity, while GitHub provides a centralized platform for hosting Git repositories, facilitating team collaboration, and contributing to open-source projects.

#### Resources

- [Git up and Running\\_\(Anirudh Rowjee\)](#)
- [The Git Workshop 2023 \(Anurag, Sriprad and Kiran\)](#)
- [MIT Missing Semester - Version Control](#)
- <https://learngitbranching.js.org/>
- [SSH Keys for GitHub](#)

#### Exercises

- [Complete the Homebrew Entry Challenges](#)

- [Upload week-1 progress on the Tilde-3.0 repository](#)

## 2) HTML, CSS and JavaScript fundamentals

### Resources

- <https://www.markdowntutorial.com/>
- [MDN docs, guides and curriculum](#)
- [Odin Project Foundational Course](#)
- <https://www.javascripttutorial.net/>
- [Intermediate HTML, CSS and JavaScript fundamentals - Odin Project](#)
- [Colt Steele Bootcamp](#)

### Exercises

- <https://devchallenges.io/path/javascript-developer>
- Simple calculator (Grid + click based)

## 3) TailwindCSS

### Resources

- <https://blog.hubspot.com/website/what-is-tailwind-css>
- <https://tailwindcss.com/docs/>

## 4) ReactJS Fundamentals - JSX, Components and Hooks

### Resources

- <https://react.dev/learn>
- [Important Concepts](#)

- [Crash course](#)
- [Hooks](#)
- <https://bigfrontend.dev/>

## Exercises

- **Bishop on a Chessboard** - A bishop is a piece in the game of chess that a player can move [diagonally](#). Your task is to implement a chessboard grid and highlight the possible positions a bishop can move to from a given cell when hovered upon.
- **Simple Markdown editing** - Implement a Markdown input section and a preview pane with parsed / rendered Markdown updated after every edit. *Hint: Use a Markdown Parsing Library*

Example - <https://stackedit.io/app#>