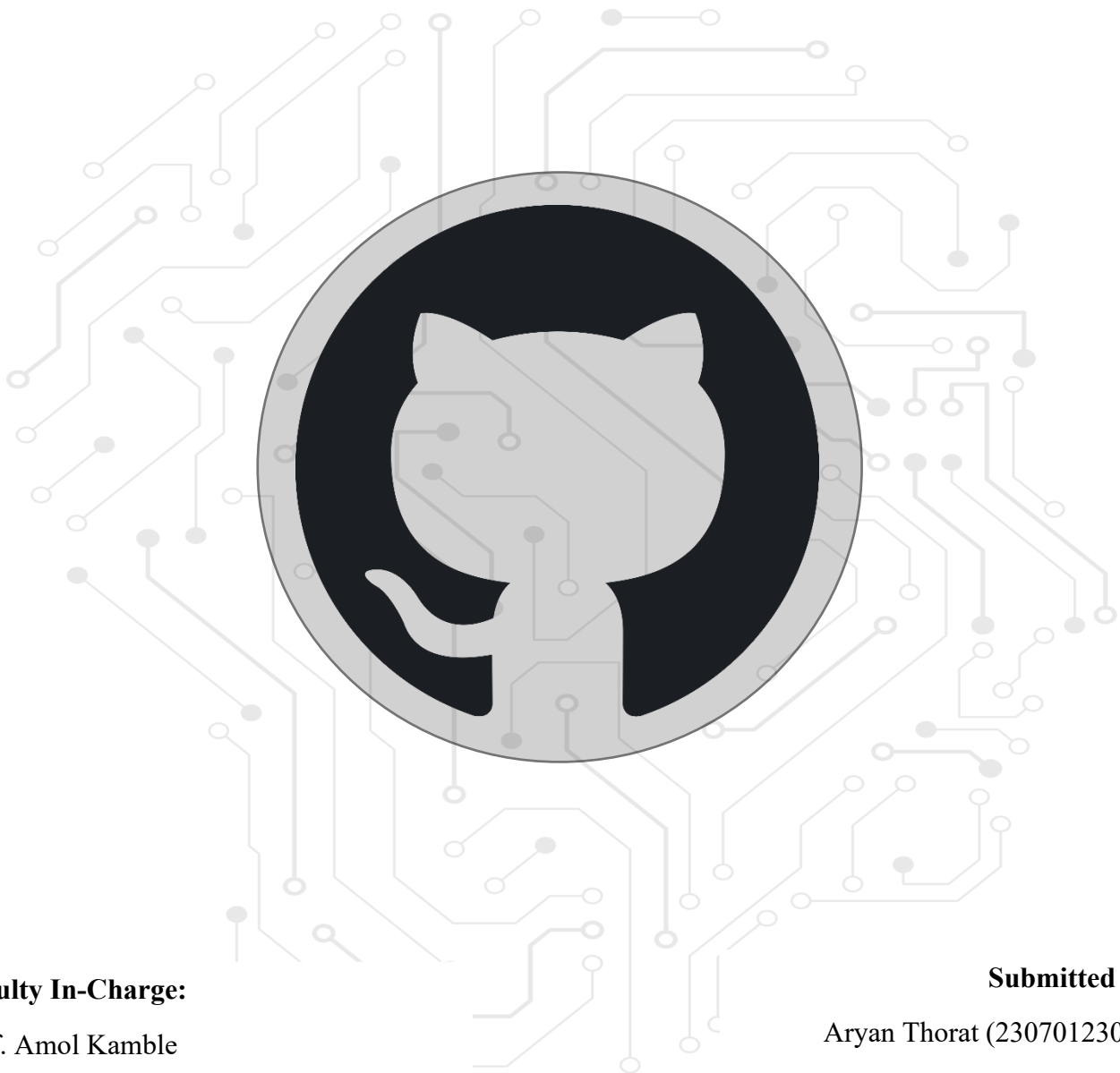




SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE
Constituent of Symbiosis International (Deemed University), Pune

Open-Source Technologies

Continuous Assessment-03



Faculty In-Charge:

Prof. Amol Kamble

Submitted by:

Aryan Thorat (23070123032)

Aditya Davane (23070123043)

Ishan Shah(23070123063)

Om Narkhade (24070123504)



SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE

Constituent of Symbiosis International (Deemed University), Pune

Introduction:

The **Notes App** project was developed as part of the *Open-Source Technologies* course to apply collaborative open-source workflows using **GitHub**. The goal was to build a **lightweight, offline, and user-friendly web-based note-taking application** that allows users to create, view, delete, and download notes easily. The project focuses on front-end development and demonstrates skills in **HTML, CSS, and JavaScript**, with an emphasis on **issue tracking, enhancement management, and teamwork** through GitHub

Project Overview:

Project Title: Smart Notes App

To design and implement a simple, offline-capable Notes App that helps users take and manage notes efficiently with features like **Dark Mode, Task Counter, Delete All**, and **Download Notes**.

Key Goals:

- Develop a responsive, interactive front-end web app.
- Implement note management using browser **LocalStorage**.
- Practice GitHub workflows: branching, issues, commits, and merges.
- Demonstrate collaborative open-source development.

Features Implemented:

Feature	Description
Add / Edit / Delete Notes	User can add ,Edit or delete notes dynamically.
Dark Mode	Toggle between light and dark themes for better visibility.
Task Counter	Displays total notes count in real-time.
Pagination	Show 5 records per page for smoother navigation.
Delete All Notes	Removes all notes and clears LocalStorage in one click.
Download Notes	Exports all notes as a .txt file for offline backup.
Improved UI/UX	Clean, responsive design using CSS.



SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE

Constituent of Symbiosis International (Deemed University), Pune

Tech Stack:

Component	Technology Used
Frontend	HTML, CSS, Vanilla JavaScript
Storage	LocalStorage AP
Version Control	Git & GitHub
Code Editor	Visual Studio Code

Project Structure:

NotesApp/

```
├── index.html  # Frontend user interface
├── style.css   # Css Styling
├── script.js   # JS logic for app functions
└── storage.js  # LocalStorage management
```

GitHub Repository and Issue Management:

The project was maintained using open-source best practices:

- Feature branching for each enhancement.
- Issue tracking for bugs and enhancements.
- Collaborative documentation of problems and resolutions

#	Issue Title	Type	Status	Reported By
1	Improvement, Adding Dark Mode And Light mode	Enhancement	Closed	@devakarthik
2	Add Dynamic Task Counter	Enhancement	Closed	@DeeptiEmmi
3	Input Field Does Not Clear After Adding Task	Enhancement/Bug	Closed	@Omnarkhade
4	Task Counter & Delete-All Function	Enhancement	Closed	@AdityaDavane1



SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE
Constituent of Symbiosis International (Deemed University), Pune

#	Issue Title	Type	Status	Reported By
5	UI/UX Improvements	Enhancement	Closed	@Aryanthorat
6	Add Download Notes feature	Enhancement	Closed	@Ishanshah
7	Notes Logic and Local Storage Handling (JavaScript)	Enhancement	Closed	@Aryanthorat
8	Final Integration & Testing	Enhancement	Closed	@AdityaDavane1

All issues were collaboratively tracked and resolved on GitHub.

Challenges Faced:

- Managing **LocalStorage synchronization** with dynamic DOM updates.
- Implementing **Dark Mode toggle** without reloading the page.
- Handling **download logic** using the Blob API.
- Resolving **merge conflicts** and branch synchronization on GitHub.

Learnings and Outcomes:

Through this project, the team learned:

- Effective use of **HTML, CSS, and JavaScript** for front-end web development.
- Hands-on experience with **Git & GitHub** for collaboration and version control.
- Issue-based workflow for task tracking and problem-solving.
- Importance of clear communication and modular coding.

This project enhanced the team's technical proficiency and teamwork capabilities in an open-source environment.

Conclusion:

The **Notes App** successfully delivers a simple, offline, and interactive tool for taking notes efficiently. The project demonstrates teamwork, creativity, and open-source collaboration using GitHub. It stands as an example of how small yet feature-rich applications can be developed using only client-side technologies.