



Coding Standards Document

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Course : CSE327

Section : 04

Purpose

The purpose of this document is to define the coding standards our team will follow throughout the development of our project, Pro-Collab – a collaborator web app. By adhering to these guidelines, we aim to improve code quality, collaboration, readability, and long-term maintainability.

Why Coding Standards?

- Ensure consistency across the codebase
- Make code easier to read and understand by everyone
- Help reduce bugs and logic errors
- Facilitate smoother collaboration in team environments
- Save time in debugging and reviewing code

Programming Language Used

We have selected JavaScript as our primary language due to its:

- Versatility and dominance in web development
- Simple syntax and flexible structure
- Strong community support and ecosystem
- Compatibility with front-end and back-end frameworks

General Coding Guidelines

◇ Naming Conventions

- Variables and Functions: Use camelCase (e.g., calculateTotal(), userName)
- Classes and Components: Use PascalCase (e.g., UserProfile, TaskManager)
- Constants: Use UPPER_CASE_WITH_UNDERSCORES (e.g., API_URL, MAX_USERS)

◇ Indentation and Formatting

- Use 2 spaces per indentation level (JavaScript standard)
- Use semicolons (;) consistently to terminate statements
- Use braces {} even for single-line blocks
- Limit lines to 100 characters for readability

◇ Comments and Documentation

- Use `//` for single-line comments
- Use `/** */` for multi-line or JSDoc-style comments
- Document function purpose, parameters, and return values where applicable

Tools & Practices

- Formatter: Prettier – for consistent formatting
- Version Control: Use Git with feature branches and pull requests
- Branch Naming: Use descriptive branch names (e.g., feature/chat-module, fix/navbar-responsiveness)

Do's and Don'ts

Do:

- Use descriptive variable names
- Keep components small and focused
- Use reusable code and functions
- Comment complex logic clearly
- Follow agreed structure and style

Don't:

- Use vague names like data, thing
- Write overly complex components
- Repeat similar code blocks
- Leave code unexplained
- Mix inconsistent syntax styles

Team Agreement

These coding standards are a draft version for the Pro-Collab web application. All team members are encouraged to review, discuss, and finalize the standards collaboratively. The final version will be agreed upon by the entire team and documented accordingly. Any updates will be communicated through team meetings or GitHub Wiki.

References

1. **JavaScript Style Guide by Airbnb**
<https://github.com/airbnb/javascript>
2. **Prettier – Opinionated Code Formatter**
<https://prettier.io/>

3. **MDN Web Docs – JavaScript Guide**
<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide>
4. **Google JavaScript Style Guide**
<https://google.github.io/styleguide/jsguide.html>