DAIKONS

Final Presentation

Advanced Software Engineering

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01 Requirements & Design

Project Requirements

- Implementation of multiple sorting algorithms
- Support for both CUI and GUI
- Visualization feature for learning support
- Design with scalability in mind

Development Environment & Technology Selection

- Development Tool：Visual Studio Code (VS Code)
- Programming Languages：JavaScript, Python (Django), HTML, CSS
- Version Control：GitHub

02 Implementation Details

Implemented Sorting Algorithms

- Bubble Sort
- Insertion Sort
- Selection Sort

GUI and Visualization Features

- Intuitive user-friendly design
- Creation of animations

03 Demonstration

04 Challenges & Improvements

Key Improvements

- Code design with scalability in mind
- A visually intuitive and easy-to-use UI

Challenges

- Team role distribution and Git management

Future Improvements

- Implementation of additional sorting algorithms
- More detailed analysis features
- Improve of animations

05 Conclusion

Implemented Sorting Algorithms

- Developed a sorting engine with CUI, GUI & visualization
- Implemented multiple sorting algorithms & intuitive UI
- Future: More algorithms, performance analysis, better animations

Thank you for listening!