
Clean Code & Agile Experiences



Team 6:

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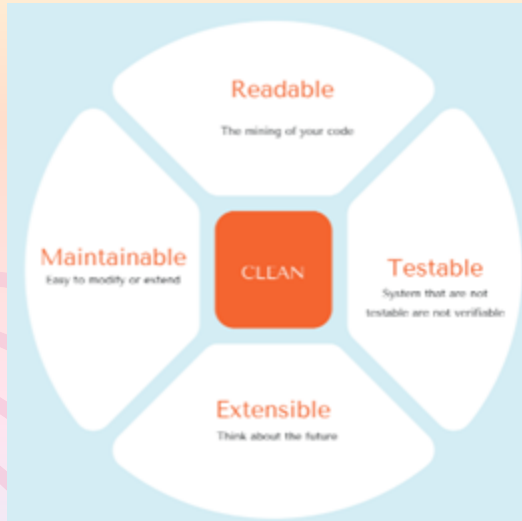
Jan William Haug



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Introduction to clean code

```
function cleanCode(amazing, appealing) {  
  let beautiful;  
  
  if(amazing) {  
    let happiness = appealing + beautiful  
    beautiful = amazing * 3  
  
    if(happiness) {  
      let gainingInterest = happiness * 3  
      console.log('This is very properly structured')  
    }  
  }else{  
    console.log('this can not getting any better')  
  }  
}
```

What is Clean Code?



- Clean code is an approach to software development that is easy to read and understand.
- Clean code requires a lot of discipline
- Benefits for easier maintenance
- Code is cost effective
 - Clean code leads to less technical debt



Clean Code

Clean code is focused →



- Each function, class, and module exposes a single minded attitude:
 1. Undistracted
 2. Unpolluted
- Should possess a range of desirable characteristics such as:
 1. Minimal Software Dependencies
 2. Robust Testability

.....

What is Clean Code? With “Uncle Bob”



```
function sloppyCode(dissapontment, unappealing) {  
  let problematic;  
  if(dissapontment) {  
    problematic = dissapontment  
    let frustration = unappealing + problematic  
    if(frustration) {  
      let losingInteresr = frustration * 3  
      console.log('This is poorly structured')  
    }  
  }else{  
    console.log('this is not getting any better')  
  }  
}
```

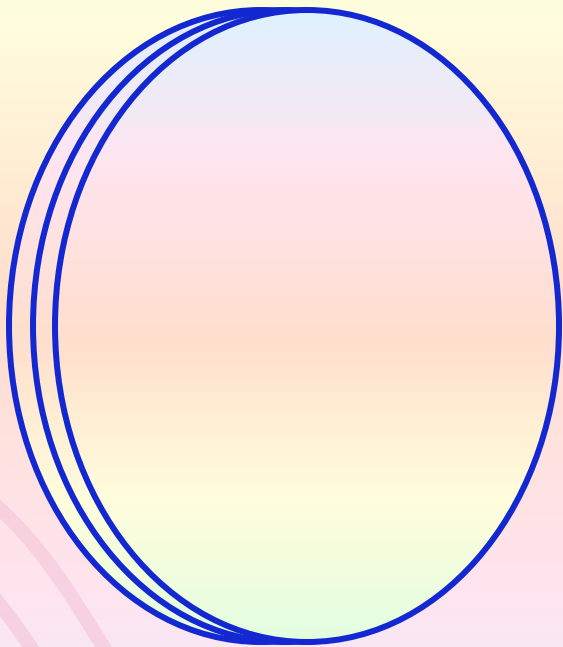
02.....✱

Advantages and
Disadvantages of
clean and bad
code

Advantages vs Disadvantages in coding



- Advantages:
 - Easier to test
 - Lower maintenance burden
- Disadvantages:
 - reduces software quality
 - increase in development time
 - security vulnerabilities



03

Code Layout



Code Layout

- Pleasing appearance that is readable
- Efficient code
- Error handling should be complete and attention to detail
- Abbreviated error handling
- Memory leaks
- race conditions
- Inconsistent naming

```
.table-bordered { border: 1px solid #ddd; }

.table-bordered > thead > tr > th, .table-bordered > thead > tr > td, .table-bordered > tbody > tr > th, .table-bordered > tbody > tr > td, .table-bordered > tfoot > tr > th, .table-bordered > tfoot > tr > td { border: 1px solid #ddd; }

.table-bordered > thead > tr > th, .table-bordered > thead > tr > td { border-bottom-width: 2px; }

.table-striped > tbody > tr:nth-of-type(odd) { background-color: #f9f9f9; }

.table-hover > tbody > tr:hover { background-color: #f5f5f5; }
```

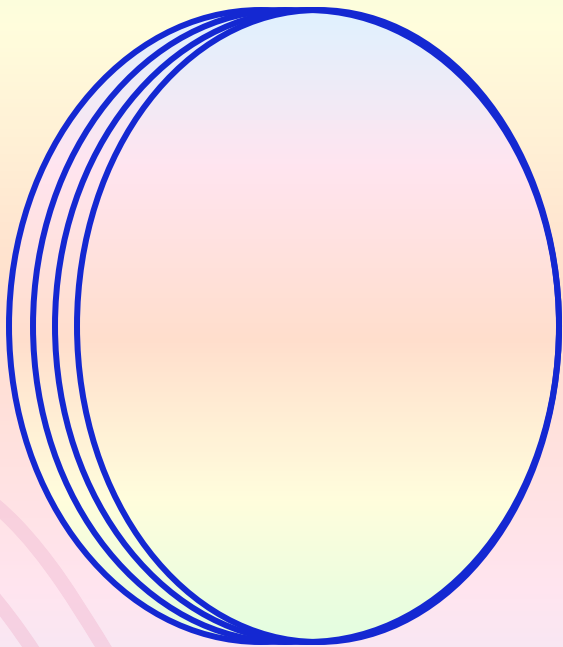
```
.table-bordered {
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04

Groups Agile
experiences



Project management

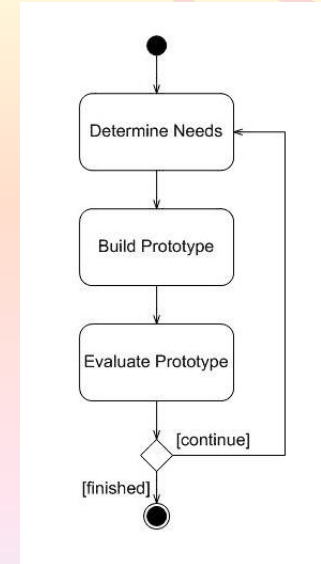


- **Project planning:** Coordinating times and dates, meetings schedule, and the team's tasks.
 - **Task management:** Assigning specific tasks for each Sprint and complete them
 - **Risk management:** Reviewing project initiatives & requirements to ensure productivity stays on track and minimize potential risks
 - **Performance management:** Monitoring and measuring the performance of the project team. Identifying areas for improvement towards project goals.
-

User Interface prototyping

- **We started by creating a user interface prototype**
- UI prototypes can have several purposes:
 - Enabled us to explore the problem with our stakeholders.
 - To initially envision the system.
 - Enabled us to explore the solution of our system.
 - A way to communicate the possible UI design(s) of our system.
 - A potential foundation for our system

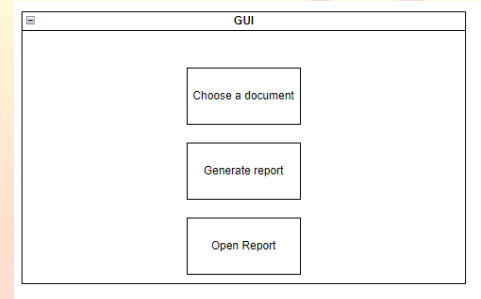
UI prototyping process



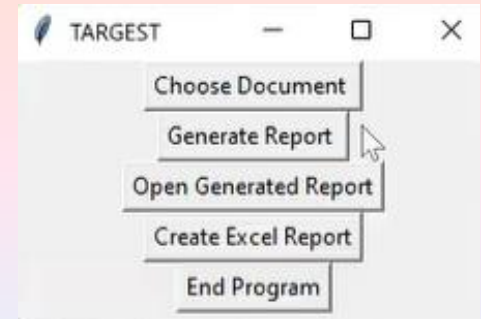
User Interface (continued)

- We prototyped a portion of the user interface
- Then moved on to implementing it.
- We don't need to define everything up front before moving on
- After a version of the UI prototype is built, it needed to be evaluated by our mentor to verify that it meets the requirements.

Prototype



Our Gui last semester



Code and design review

Code Review: Our team used code review tools like GitHub to hold a central repository to review each commit being made and highlight our continuous improvement to our code base.

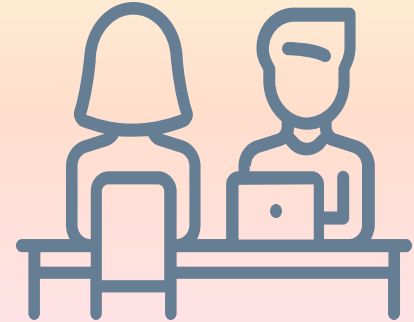
Design Review: As a team, we constantly updated our design architecture to meet the standards of our code.

Collaborative Review: We always discussed about alternative design patterns and potential issues we might face if we weren't updating the architecture.



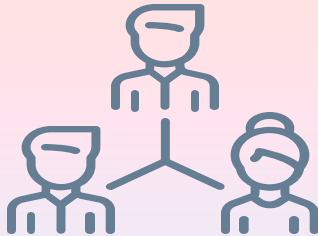
Small release cycles

- Delivering working software in small increments allowed for us to have consistent feedback
- Frequent feedback helped us identify issues earlier in the development process.
- Small release cycles are a great way to build momentum over time.

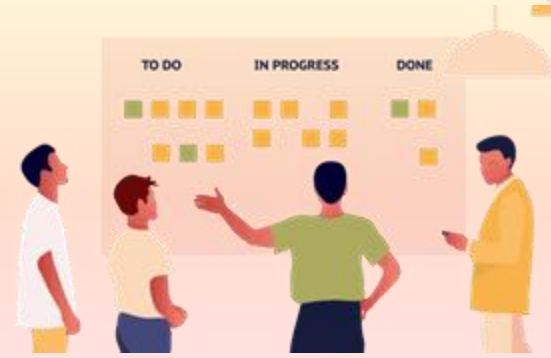


Scrum meetings

- All team members attend
- Sprint planning meeting
- Daily scrum
- Sprint review meeting
- Sprint retrospective meeting
- Point out issues



SCRUM
meeting



Kahoot!!

when you win at kahoot in class, but fail all your exams



Me and the boys waiting for our funny kahoot names to show up



Thanks!

Do you have any questions?

Thank you
for
listening!

