

CLEAN CODE

Tips For Programmers

DONE BY

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1. Methods

Should perform only one function (one thing). Depends on multiple small methods rather than one long method.



MULTIPLE METHODS

```
//A function to find a specific course
function find_course (course_id){
    const course = courses.find((course)=>{
        course.id === course_id;
    })
    return course;
}
//A function that adds the course to registered courses array
function add_course course){
    registered_courses.push(course);
}
```



ONE METHOD

```
//A function to find a specific course
function find_and_add_course(course_id){
    const course = courses.find((course)=>{
        course.id === course_id;
    })
    //Add the course to registered courses array
    registered_courses.push(course);
}
```



2.Pick

One Word per Concept



ONE WORD

`signInPage`, `signInSection`,
`signInBox`, `signInFunction`



MULTIPLE WORDS

`signInPage`, `logInSection`,
`loginBox`, `signInFunction`



3. Names

Must be **meaningful**, **searchable**, and **pronounceable**.

Names are used for -> variables, classes, functions, folders, etc.



MEANINGFUL NAME

```
const student_name = "Farah";  
function register_student(student_name){  
  ...  
}
```



RANDOM NAME

```
const s = "Farah";  
function r(s){  
  ...  
}
```



4. Explain Yourself in Code

We should make our code as clear and understandable as possible, so we don't need to put comments on it.



GOOD PRACTICE

```
if(student.is_student_eligible_to_register()){  
    ...  
}
```

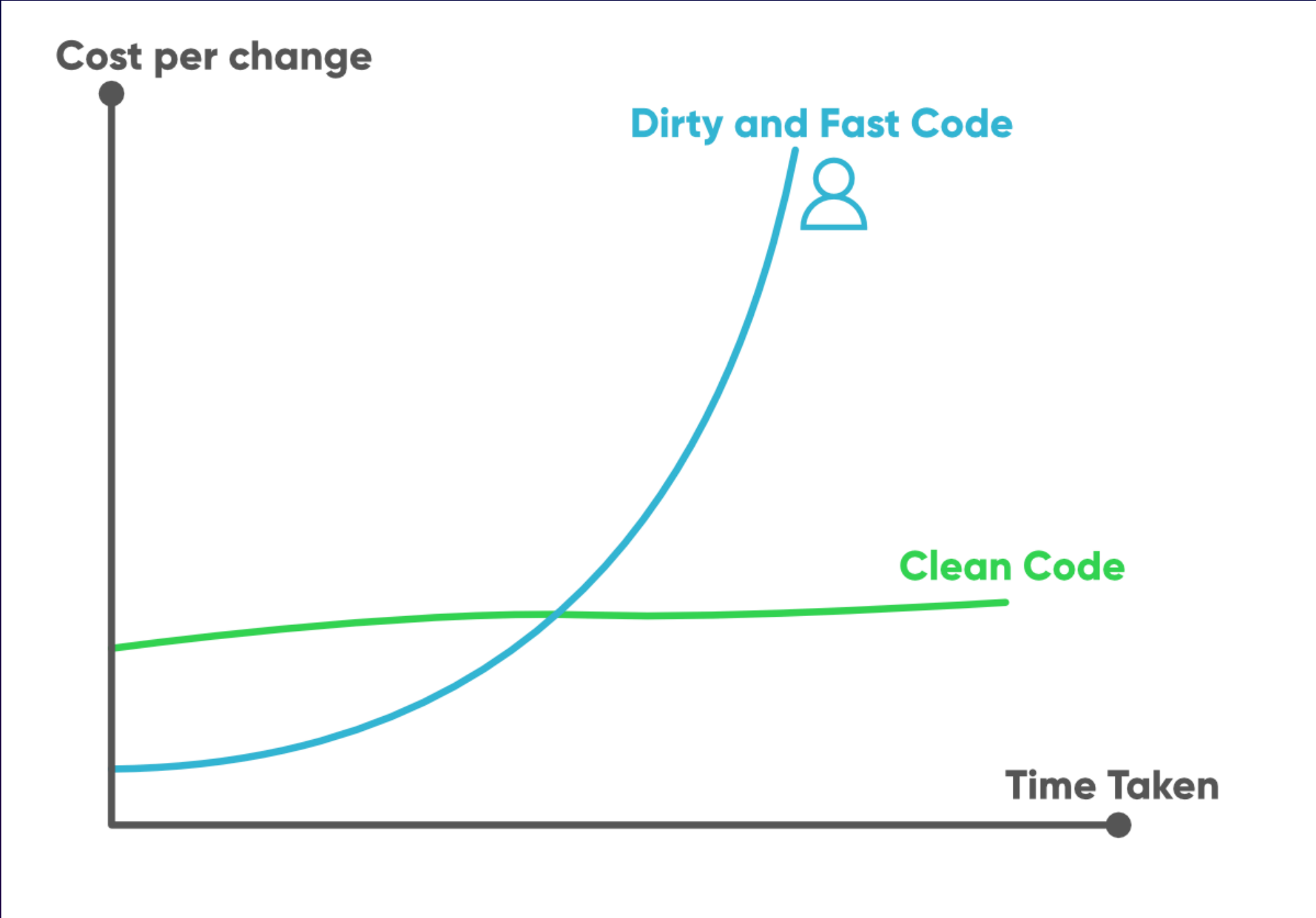


BAD PRACTICE

```
//To chack whether the student is eligible to register courses  
if(student.passed_hourse && student.good_standing){  
    ...  
}
```

“Some comments are necessary. But keep in mind, the only truly good comment is the comment you found a way not to write.”





CLEAN CODE VS. DIRTY AND FAST CODE



Resources

- <https://www.unosquare.com/blog/10-tips-for-writing-cleaner-code-in-any-programming-language/>
- <https://www.geeksforgeeks.org/7-tips-to-write-clean-and-better-code-in-2020/>
- [Martin, R. \(2008\). Clean Code: a handbook of agile software craftsmanship. http://ci.nii.ac.jp/ncid/BA87924669](http://ci.nii.ac.jp/ncid/BA87924669)

