

# Software Maintenance

## Impact and Feature Location

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# 1 Concept Location

## 1.1 Prefactoring

Refactor sourcecode without change the bahavior of the program

If codesmell is discovered, refactoring will be performed.

It is also good practice to split of large classes with lots of responsibility (God Classes), into smaller classes to seperate the responsibility.

## 1.2 Postfactoring

When going over the newly written code, it is important to go though it and eleminate anti-patterns, and lastly clean the code for any mistakes or redundancies.

## 1.3 Verification

Verifying the newly written code with tests guarantees the correctness of the code.

### 1.3.1 Testing

There are three main tests to be performed:

- Functional
- Unit
- Structual

A concept of development is **Test First development**. This is a technique where a test-specification is written, and the program is coded to match the output/rules of the specification.