SporCantam
Coding Standards

1 Introduction

Coding standards are a set of guidelines, best practices, programming styles and conventions that developers adhere to when writing source code for a project.

2 Description

They are a series of procedures that can be defined for a particular programming language specifying a program style, the methods, & different procedures. These procedures can be for various aspects of the program written in that language. They can be considered as essential attributes of software development.

A coding standard makes sure that all the developers working on the project are following certain specified guidelines. The code can be easily understood and a proper consistency is maintained.

Consistency has a positive impact on the quality of the program and one should maintain it while coding. Also, it should be taken care that the guidelines are homogeneously followed across different levels of the system and they do not contradict each other. The finished program code should look like that it has been written by a single developer, in a single session.

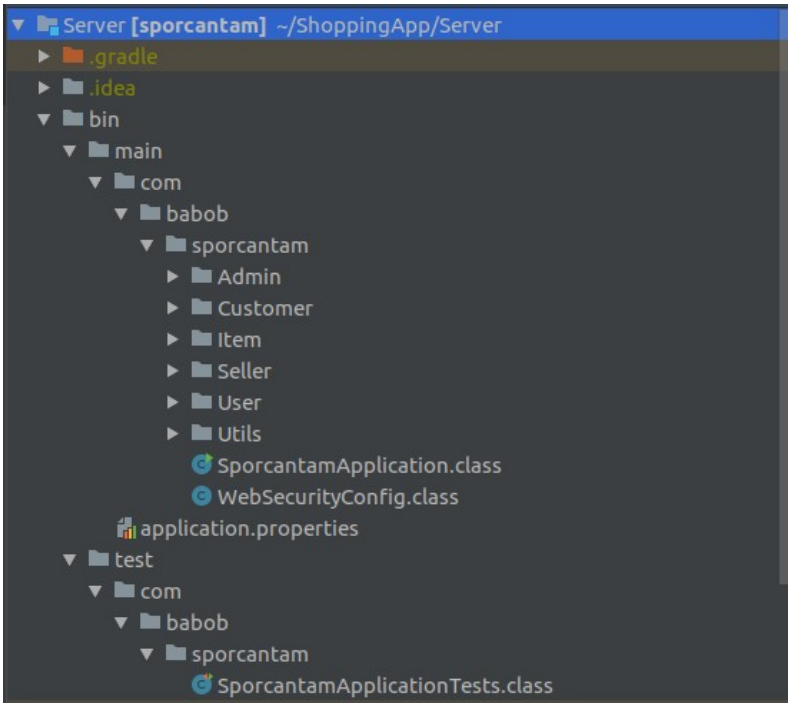
3 Coding Standards Specifications

1. Naming standards

- We use descriptive function and variable names in both server and android side.
- Function names are verbs and start with lowercase letters.
- Attribute and variable names are nouns and start with lowercase letters.
- Class names are nouns and start with uppercase letters.
- We use camel notation in function names.
- We use underscore notation in class attribute names and variable names.
- We use camel notation in class names.

2. File organization

- File organization of our project can be seen below.
- With this structure, we easily manage the files in both Intellij IDE and Android Studio IDE.



3. Comment standards

- We use Javadoc to write comment in our code.

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4. Coding conventions

- We follow the general Java and Kotlin coding convention standards.

- We maximize the number of individual groups of code for the sake of modularity and object-oriented design.

- We minimize the number of nested logic block for the sake of simplicity.

- We avoid from long lines of code. We start a new line after each semicolon.

5. White space

- We are aware of the importance of white spaces in the terms of readability, so we use indentation for every block.

- There are one blank line between each pair of functions.

- In formulas and notations, we use single whitespace if necessary. We avoid using consequent unnecessary whitespaces.