**Sports Center Management System – Coding Standard**

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**Introduction**

This document contains the coding conventions for SportSupport , based on the Java language coding standards presented in the [*Java Language Specification*](http://java.sun.com/docs/books/jls/index.html), from Sun Microsystems Incorporated. Coding standards pertain to how the developer writes code. Coding guideline is just suggestions for developer. Usage of coding guidelines is not mandatory.

1. **Coding Standarts**
   1. **Indentation**

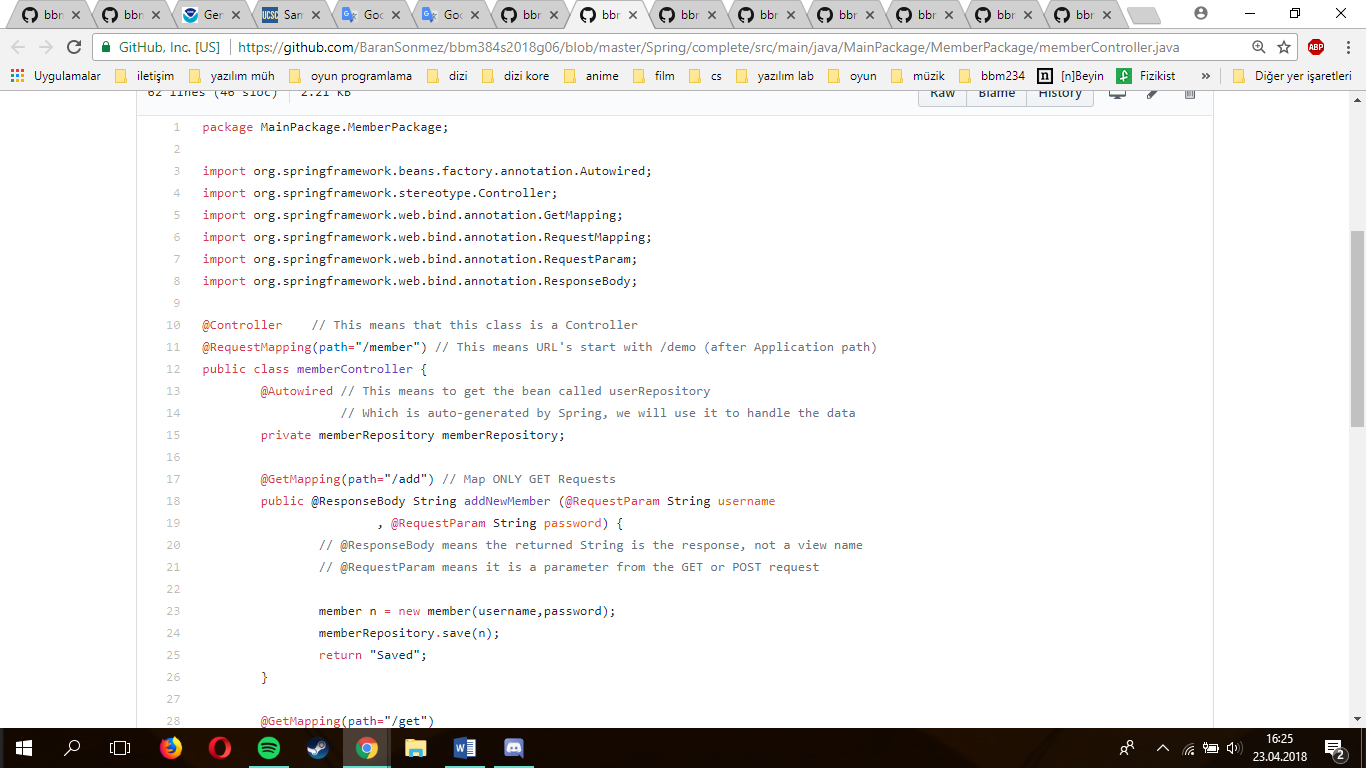
Four spaces should be used as the unit of indentation.

* 1. **Comments**
     1. **Block Comments**

Block comments are used to provide descriptions of files, methods, data structures and algorithms. Block comments may be used at the beginning of each file and before each method. A block comment should be preceded by a blank line to set it apart from the rest of the code.

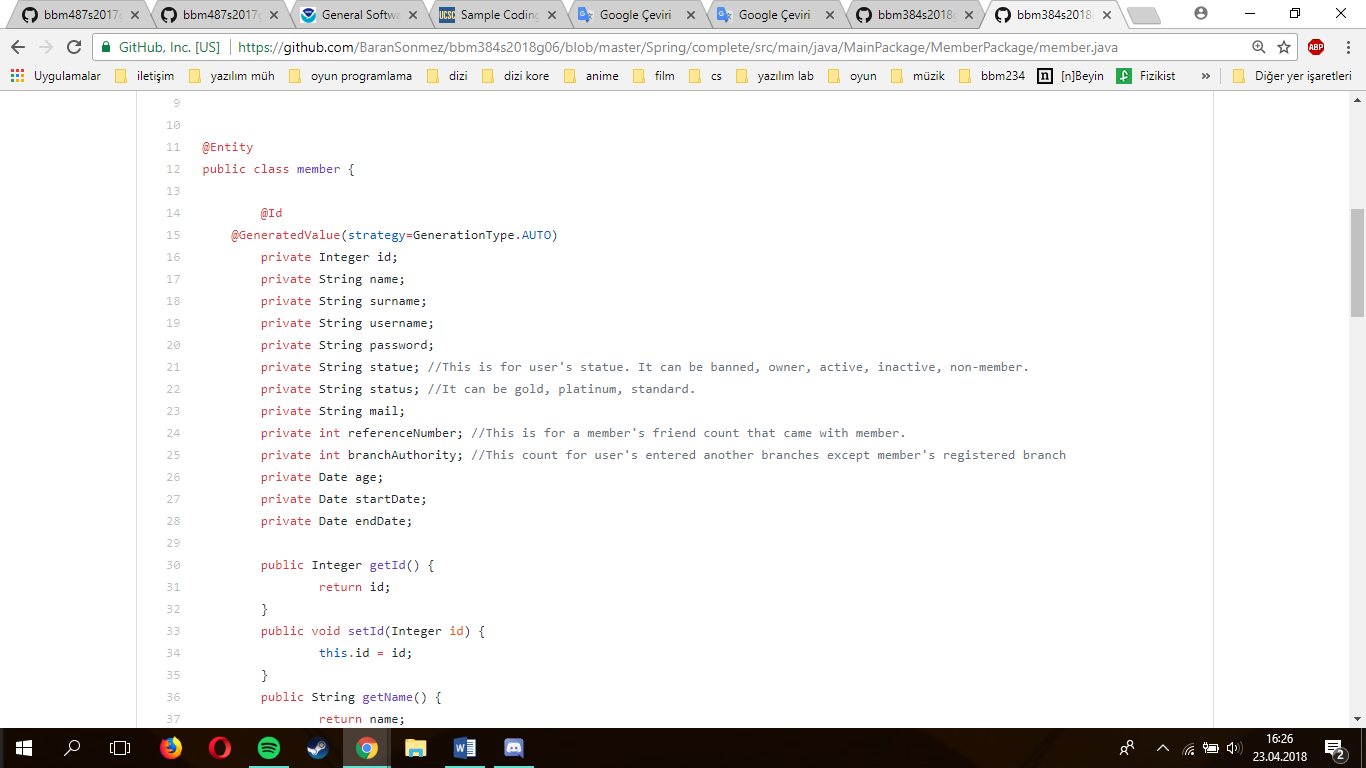
* + 1. **Single Line Comments**

Short comments can appear on a single line indented to the level of the code that follows.



* + 1. **Trailing Comments**

Very short comments can appear on the same line as the code they describe.

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* 1. **Classes, Functions, and Methods**

Keep all classes, functions, and methods reasonable size.

* 1. **Source Files**

Each Java source file contains a single public class or interface. Java source files should definitely have the following features :

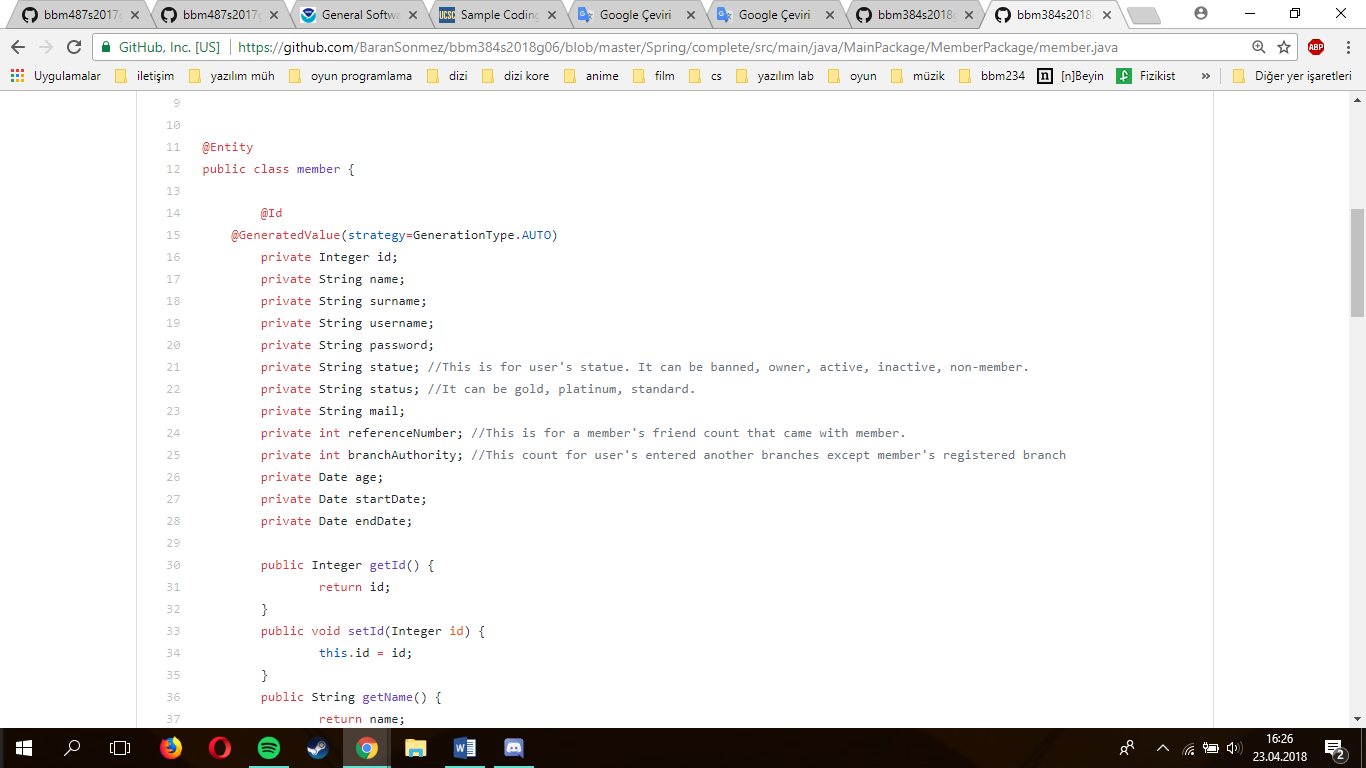
·        Package and Import statements

·        Class Declaration

·        Method Declarations if exists

* 1. **Variable Names**

Variable names should be meaningful and conform to the rules of JDK 8 .



* 1. **Use of Braces**

Functions and classes should surrounded by curly braces "{" and "}".)

1. **Coding Guidelines** 
   1. **Length**

Avoid lines longer than 80 characters. Lines longer than this may not be displayed properly on some terminals and tools.

* 1. **Spacing**

We set our spacing rules to the general coding rules. These are :

1. A keyword followed by a parenthesis should be separated by a space.
2. A blank space should appear after each comma in an argument list.
3. All binary operators except “.” should be separated from their operands by spaces. Blank spaces should never separate unary operators such as unary minus, increment (“++”), and decrement(“—“) from their operands.
4. Casts should be made followed by a blank space.
   1. **Wrapping Lines**

When an expression will not fit on a single line, break it according to these general principles:

* Break after a comma.
* Break before an operator.
* Prefer higher-level breaks to lower-level breaks.
* Align the new line with the beginning of the expression at the same level on the previous line.
  1. **Variable Declarations**

There must be one definition per line.

* 1. **Program Statements**

Each line should contain at most one statement. Also should not use nested statements.

* 1. **Use of Parentheses**

Parentheses should be used with care. Operations should be clearly visible.

* 1. **Meaningful Error Messages**

We used too many error messages in our project to improve the user's efficiency and we tried to direct the user with that attitude. We tried to write these messages as simple and clear as possible.

* 1. **Reasonably Sized Functions and Methods**

We tried to avoid long codes,we applied this attitude for improve readability and code security. In the case of very long codes, there might be problems in applying subtasks.

1. <https://docs.oracle.com/javase/tutorial/java/javaOO/variables.html>

<https://docs.oracle.com/javase/tutorial/java/index.html>

<http://www.nws.noaa.gov/oh/hrl/developers_docs/General_Software_Standards.pdf>