

**SOEN 6441**

**Advance Programming Practices**

**Project: Risk Game (Build 1)**

**CODING STANDARDS**

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**I. INTRODUCTION**

Coding conventions are set of rules effectuated on how code needs to be written, including:

**a. File organization:** It involves structuring files among folders

**b. Indentation:** It helps to make code human readable and understand with ease.

**c. Comments:** Comments are used to increase code understanding by explaining functionalityof class, method or any line of code.

**d. Declarations:** syntax rule used to declare any class, data structure, variables and functionsto maximize the code readability.

**e. Naming:** helps to set rule on how to name the entities in program such that it relates wellwith the project and increases understandability.

1. **CODING CONVENTIONS AND STANDARDS ADOPTED IN PROJECT A. Code Layout**
   * + Approach used - Maximize visibility of the different blocks by having curly braces alone on their line of code.
     + Blank lines have been introduced in between the code, to increase the readability.
   1. **Naming Conventions**
      * Constants are named with upper case including underscores as separators.
      * Classes are named as per the architecture adopted and under the package.
      * Class names start with upper case are separated using case change.
      * The variables used are named per their scope.
      * Methods are named starting with lower case followed by parentheses. **Camel case** is followed.
      * Attributes start with lower case and separated by underscore.
      * Local variables starts with lower case and separated by underscore.
   2. **Comments**
      * Commenting is done as per conventions for Java Doc.
      * The purpose is stated at the beginning of every class or method.

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* @see is used to link an existing API documentation.
* @param is to define parameters used in the method.
* @return is used to define return type from the method.
* @author represents the author of code.
* @throws describes exception that may be thrown from the method.
* @version is used to create a version entry

**D. Indentation**:

The code has been indented to maintain the code readability and ease of understanding.

**III. References**

1. Amin Ranj Bar: [API documentation generation tools: Javadoc](https://users.encs.concordia.ca/~paquet/wiki/images/a/a9/SOEN6441.5.apidocgen.ppt)
2. Amin Ranj Bar [coding conventions](https://users.encs.concordia.ca/~paquet/wiki/images/6/60/SOEN6441.4.conventions.ppt)

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