Advanced Software Technology - Project 2018 - Week 1

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Project 2018-Initial Requirement

- 1. Language of working:
 - Java
- 2. Coding standard:
 - The Code Conventions for the Java Programming Language document updated on April 20, 1999. The doucment is available at: Oracle Java Code Convention
- 3. Testing framework:
 - JUnit Test
- 4. The data structure to communicate the object list to the code:
 - Class, Arraylist ListofObjects and the primitive data types.
- 5. The code structure along with the class/function type and definition:
 - Class name: Sensor This class holds the entire input data as Arraylist of objects. For instance,

```
[(knife,1, 99%), (scissor, 2, 65%), (spoon, 3, 33%), (spoon, 4, 80%), (keys, 5, 95%)] [(knife,1, 55%), (scissor, 2, 95%), (fork, 3, 99%), (spoon, 4, 99%), (keys, 5, 95%)]
```

Class name: SensorData This class holds the input for each modality as Arraylist of objects. For instance,

```
[(knife,1, 99%), (scissor, 2, 65%), (spoon, 3, 33%), (spoon, 4, 80%), (keys, 5, 95%)]
```

Class name: SensorDataItem This class holds the data with respect to each object available in each modality image. The data is available as three variables of a class. For instance,

(knife,1, 99%)

- 6. Input and Output formats of data:
 - Input: Object of class Sensor
 - \bullet Output: Object of class Sensor DataItem
- 7. Test cases:

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8. Actual implementation:

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References:

- 1. Coding convention, Available on: https://www.oracle.com/technetwork/java/javase/documentation/codeconvtoc-136057.html, Website: Oracle, Viewed on: 01.12.2018.
- 2. Java Tutorials, Website: Tutorials point.