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LIST OF SYSMBOLS

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| --- | --- | --- | --- |
| S.NO | NOTATIoN  NAME | NOTATION | DESCRIPTION |
| 1. | Class | *Class Name*  *-attribute*  *-attribute*  *+operation*  *+operation*  *+operation*  *+ public*  *-private*  *# protected* | Represents a collection of similar entities grouped together. |
| 2. | Association | name  Class A  Class B  Class A  Class B | Associations represent static relationships between classes. Roles represent the way the two classes see each other |
| 3. | Actor | Class A  Class A  Class B  Class B | It aggregates several classes into a single classes. |
| 4. | Aggregation | Interaction between the system and external environment. |
| 5. | Relation  (uses) | Uses | Used for additional process communication. |
| 6. | Relation  (extends) | Extend | Extends relationship is used when one use case is similar to another use case but does a bit more. |

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| 7. | Communication |  | Communication between various use cases. |
| 8. | State | State | State of the process. |
| 9. | Initial State |  | Initial state of the object |
| 10. | Final state |  | F final state of the object |
| 11. | Control flow |  | Represents various control flow between the states. |
| 12. | Decision box |  | Represents decision making process from a constraint |
| 13. | Use case |  | Interaction between the system and external environment. |

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| 14. | Component |  | Represents physical modules which are a collection of components. |
| 15. | Node |  | Represents physical modules which are collection of components. |
| 16. | Data Process/State |  | A circle in DFD represents a state or process which has been triggered due to some event or action. |
| 17. | External entity |  | Represents external entities such as keyboard, sensors, etc. |
| 18. | Transition |  | Represents communication that occurs between processes. |
| 19. | Object Lifeline |  | Represents the vertical dimensions that the object communications. |
| 20. | Message | Message | Represents the message exchanged. |

**LIST OF ABBREVATION**

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| S.NO | ABBREVATION | EXPANSION |
| 1. | BOF | Bag Of Feature |
| 2. | BOW | Bag Of Words |
| 3. | HSV | hue-saturation-value |
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