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**LIST OF SYSMBOLS**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **NOTATION**  **NAME** | **NOTATION** | **DESCRIPTION** |
| 1. | Class |  | Represents a collection of similar entities grouped together. |
| 2. | Association | name | Associations represents static relationships between classes. Roles represents the way the two classes see each other. |
| 3. | Actor |  | 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) | extends | Extends relationship is used when one use case is similar to another use case but does a bit more. |
| 7. | Communication |  | Communication between various use cases. |
| 8. | State |  | State of the processs. |
| 9. | Initial State |  | Initial state of the object |
| 10. | Final state |  | 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 |  | Interact ion between the system and external environment. |

|  |  |  |  |
| --- | --- | --- | --- |
| 14. | Component |  | Represents physical modules which is a collection of components. |
| 15. | Node |  | Represents physical modules which are a 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 acion. |
| 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**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **ABBREVATION** | **EXPANSION** |
| 1**.** | DB | DataBase |
| 2. | JVM | Java Virtual Machine |
| 3. | JSP | Java Server Page |
| 4. | CB | Collective Behavior |
| 5. | SD | Social Dimension |
| 6. | JRE | Java Runtime Environment |
| 7. | SSD | Sparse Social Dimension |
| 8. | LGP | Line Graph Partition |

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