SDD Outline and Evaluation

(For explanations, please refer to IEEE 1016, highlighted and commented for the Amazon Go project)

Title page (1 pt)

Table of Contents (1 pt)

List of Figures (1pt)

List of Tables (if any) (1 pt)

1. Introduction

    1.1 Purpose of the system (2 pts) [IEEE1016: 4.2]

    1.2 Scope (2 pts) [IEEE1016: 4.2]

    1.3. Stakeholders and their concerns (3 pts) [IEEE1016: 4.3]

2. References (2 pts) [IEEE1016: 4.2]

3. Glossary (2 pts) [IEEE1016: 4.2]

[15 pts]

4. Architectural Views

    4.1. Context View [IEEE1016: 5.2]

        Context Diagram (3 pts)

        - Context Diagram should display all external entities that may interact with the system.

        Use Case Diagram (3 pts)

        - Must include least 15-18 use cases.

        Use Case Descriptions (3 pts)

        - Descriptions of the Use Cases given in the Use Case Diagram, in table formats.

        - You may use your Use Case Diagram and Use Case Descriptions from your own SRS document, with improvements where necessary.

[9 pts]

    4.2. Composition View [IEEE1016: 5.3]

        Component Diagram (14 pts)

        Deployment Diagram (7 pts)

        Design Rationale (2 pts)

        - In this section, design rationale should be given for Component Diagram and Deployment Diagram.

[23 pts]

4.3. Information View [IEEE1016: 5.6]

Class Diagram (13 pts)

- This section should include Interface Class Diagram and Database Class Diagram. Descriptions of the operations given in the Interface Class Diagram should also be given.

Database Operations (4 pts)

- Descriptions of the operations given in the Database Class Diagram. These operations may possibly deal with storage and handling of information regarding stores, customers, products and so on. These are usually CRUD operations.

Design Rationale (2 pts)

- In this section, design rationale should be given for both class diagrams.

[19 pts]

4.4. Interface View [IEEE1016: 5.8]

- Must include 4-7 Internal, 10-15 External interfaces. External interfaces should include two subsections: User Interfaces, System/Service Interfaces.

User interfaces, GUIs, Mockups (4 pts)

System/Service Interfaces (3 pts)

Sequence Diagrams (14 pts)

- Total of 5 sequence diagrams. 3 for external interfaces, 2 for internal interfaces. Choose complex interactions for sequence diagrams. Must be different from those in your SRS document.

Design Rationale (3 pts)

- In this section, design rationale should be given for each interface.

[24 pts]

Overall Design Quality

Overall Document Quality

[10 pts]

- Including more use cases/interfaces/sequence diagrams than what you have been asked for will not get you extra credits (e.g. only the first 18 use cases will be graded).