ICS 372

Group Project 2: Use Cases and Requirements

Team Members:

Stage 1: Gathering the Requirements

Requirement Analysis- What the new system should do?

Functional Requirements: Interactions between the system and its users, between the system and any other systems (supplying or receiving data).

Non-Functional Requirements:

Requirements from Assignment 1 & 2:

***1. The software shall read a file that is in JSON format containing various shipment information.***

***2. The software shall support 4 different types of shipping methods in the input file: air freight, rail freight, ship freight, and truck freight.***

***3. The software shall read and store the shipment ID and gross weight for each entry and associate it with the specified warehouse ID.***

***4. The software shall read and store the associated metadata for each shipment.***

***5. The software shall support the following commands for each warehouse: add incoming shipment, enable freight receipt, and end freight receipt.***

***6. The software shall only allow adding incoming shipments to a warehouse that has enabled freight receipt.***

***7. The software shall keep records for a warehouse that has ended freight receipt, but will not allow new incoming shipments.***

***8. The software shall be able to export all shipments from a warehouse into a single JSON file.***

***9. The software shall show the list of received shipments for each warehouse.***

***10. The software shall keep track of which shipments are located in which warehouse.***

***11. The software shall read and record the name and unique id for each warehouse.***

***12. The software shall read and store the current state when the program is stopped. The software shall import shipment and warehouse data to the system, once the program is restored.***

***13. The software shall read and import data from a file that is in XML format containing various shipment information.***

***14. The software shall use a graphical interface, that will allow users to click and perform operations on the system.***

6.3.1 Use Case Analysis

-Sequence of Events (Actions)

-External Agent (Actor)

-More Parties (Agents)

Actions performed by the actor --- Responses from the system

Table : Rules for the system

Rule number Rule

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actions performed by the actor |  | Responses from the System |
| 1 |  |  |  |
|  |  | 2 |  |
| 3 |  |  |  |
|  |  | 4 |  |
| 5 |  |  |  |
|  |  | 6 |  |
| 7 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actions performed by the actor |  | Responses from the System |
| 1 |  |  |  |
|  |  | 2 |  |
| 3 |  |  |  |
|  |  | 4 |  |
| 5 |  |  |  |
|  |  | 6 |  |
| 7 |  |  |  |
|  | Actions performed by the actor |  | Responses from the System |
| 1 |  |  |  |
|  |  | 2 |  |
| 3 |  |  |  |
|  |  | 4 |  |
| 5 |  |  |  |
|  |  | 6 |  |
| 7 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actions performed by the actor |  | Responses from the System |
| 1 |  |  |  |
|  |  | 2 |  |
| 3 |  |  |  |
|  |  | 4 |  |
| 5 |  |  |  |
|  |  | 6 |  |
| 7 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actions performed by the actor |  | Responses from the System |
| 1 |  |  |  |
|  |  | 2 |  |
| 3 |  |  |  |
|  |  | 4 |  |
| 5 |  |  |  |
|  |  | 6 |  |
| 7 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actions performed by the actor |  | Responses from the System |
| 1 |  |  |  |
|  |  | 2 |  |
| 3 |  |  |  |
|  |  | 4 |  |
| 5 |  |  |  |
|  |  | 6 |  |
| 7 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actions performed by the actor |  | Responses from the System |
| 1 | User logs into Warehouse System |  |  |
|  |  | 2 | System displays options: import json or xml file |
| 3 | User imports json/ xml file to system |  |  |
|  |  | 4 | Systems imports data from file : unique id |
| 5 |  |  |  |
|  |  | 6 |  |
| 7 |  |  |  |