Object Oriented Analysis & Design SE-321 Spring 2021

Assignment#1 – Use case writing

Due Date-March 26, 2021

**Question#1)** Harry is the owner of HarryTools, a rental store that rents Home Improvement Tools (Hammers, Drills etc.…) to people for their DIY (do-it-yourself) projects. HarryTools wants to get a software system made for managing its rental records. He wants to system to record tool rentals, customer detail, and payments.

Usually, a customer selects a tool (or many tools) from display and brings it to Harry to rent out. Harry would use system to record rentals. Harry asks customer for duration of the rent period (in days) and enters the days along with tool identifier into system for each tool. System displays rental charges starting from today after calculating it (based on rates, 7 day = 1 Week and 4 Weeks = 1 month), advance rent payment, and security deposit (Security deposit is based on tool’s price recorded in the system). Once customer agrees to terms, Harry enters customers’ name, address and social security number in the system. System verifies the customer social security number from USSEC database (external). ***USSEC*** provides name, address on record that is matched by System. Upon match, system approves rental and issues a rental receipt with date to return, amount to pay. System also prints a rental agreement with terms & conditions. Harry request’s the customer to make payment and sign rental agreement. Harry uses the system to record the payment and files the rental agreement. Customer then leaves the shop with his rented tool(s).

**Identify use case and actors from the above given case study. Write an expanded use case in essential form.**

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| **Name of Use Case:** |  |
| **Actor(s)** |  |
| **Pre-Conditions:** |  |
| **Post-Conditions:** |  |
| **Main Success Scenario** | |
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| **Extensions/Alternative Scenario(s)** | |
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