**Use Case Descriptions for a use case**

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| Use case name: | Produce customer usage report. | |
| Scenario: | Create customer usage report. | |
| Triggering event: | Marketing manager wants to view customer usage report. | |
| Brief description: | Marketing manager inputs the customer account number; the system generates and displays customer total usage of the system. | |
| Actors: | Marketing manager | |
| Related use case: | None | |
| Stakeholders: | Marketing, Sales, IT | |
| Preconditions: | Customer must exist.  Transaction system must exist.  System use log must exist. | |
| Postconditions: | Customer usage report must be created saved.  Customer usage report is updated in real time.  Customer usage report displayed with graphs. | |
|  | Actor | System |
| Flow of activities: | 1. Marketing manager indicates desire to view customer usage report. 2. Marketing manager inputs customer id or click every customer button. 3. Marketing manager clicks graph/chart button. | 1.1 System prompts for customer accounts.  1.2 System creates a button for all customers  2.1 System creates customer usage report.  3.1System shows graphical customer usage report.  3.2 System updates customer usage in real time. |
| Exception  conditions: | 1.1 Unauthorized person accesses the system.  2.1 Customer account isn’t valid.  3.1 Graphical function isn’t available. | |

**Activity Diagrams**

Diagram

Description automatically generated

**System Sequence Diagrams**

Table

Description automatically generated

**First Cut Design Class Diagram**

Diagram

Description automatically generated

**CRC Cards**

Diagram, engineering drawing

Description automatically generated

**Class Diagram**

Diagram

Description automatically generated

**Class Package Diagram**

Diagram, schematic

Description automatically generated