**Assignment 01**

1. **High-level Functional:**

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| No. | Features | Description |
| F001 | Customer Management | User add have to account, view, edit, enable/disable account from system. |
| F002 | Payment Management | User will used it’s calculate cash payment when customer buy commodity. |
| F003 | Price Management | Support user to manage commodity price include standard price and retail price. |
| F004 | Payment types management | Customer can payment by cash or bonus point or either |

1. **Constraints:**

*Technical constraints*

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| Features | Description |
| Network | Client-Server, POS client |
| Database | SQL server |

*Business constraint*

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| No. | Features | Description |
| BC001 | Combination | A sales system in conjunction with its launch of a point service. |
| BC002 | Usability | Point are recorded in the system, and not on the point card |
| BC003 | Availability | When the points are used, the number of points used is immediately subtracted from the number of points accrued by the member. |
| BC004 | Flexibility | For each product, its standard price, common to all stores, is set as a part of the product data |

1. **Quality attributes:**

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| No. | Features | Description |
| QA001 | Avaibility | The response time of the sales operations must be fast and the availability must be high in the event of temporary failure of the head office server or the network, the POS terminal will be still working securely. |
| QA002 | Reserve | The POST terminals can carry out the sales operation efficiently using locally stored data as much as possible. |
| QA003 | Performance | The response time of the sales operations must be fast(< 5 second) |
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**Usecase**

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| **Use-Case ID:UC01** | **Use-Case Name:** Login |
| **Actor:** | Admin, Employee, Customer |
| **Description:** | Đang nhap vao he thong |
| **Preconditions:** | Phải có tài khoản và được phân quyền. |
| **Primary Pathway:** | 1. Click vao biểu tượng login 2. Hệ thống hiện ra giao diện để đăng nhập 3. Điền thông tin 4. Hệ thống thông báo đăng nhập thành công |
| **Alternative Pathways:** | 1. Click vao bieu tuong đang nhap 2. He thong hien ra giao dien de dang nhap 3. Dien thong tin sai 4. He thong thong bao loi |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | None |

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| **Use-Case ID:UC02** | **Use-Case Name:** Manage User |
| **Actor:** | Admin |
| **Description:** | Quan ly tai khoan nguoi dung  Tinh trang diem tich luy cua nguoi dung. |
| **Preconditions:** | Phai dang nhap vao he thong |
| **Primary Pathway:** | 1. Nhan vao muc quan ly nguoi dung 2. Hệ thống hiện ra giao diện de thuc hien thao tac quan ly 3. Thuc hien thao tac tren he thong va luu lai 4. He thong thong bao luu thanh cong |
| **Alternative Pathways:** | 1. Nhan vao muc quan ly nguoi dung 2. Hệ thống hiện ra giao diện de thuc hien thao tac quan ly 3. Thuc hien thao tac khong dung 4. He thong thong bao loi 5. Thuc hien lai thao tac |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | None |

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| **Use-Case ID:UC03** | **Use-Case Name:** Payment |
| **Actor:** | Employee |
| **Description:** | Thuc hien viec tinh tien |
| **Preconditions:** | Phai dang nhap vao he thong |
| **Primary Pathway:** | 1. Nhan vao muc tinh tien 2. Hệ thống hiện ra giao diện de tinh tien 3. Thuc hien thao tac tren he thong va luu lai 4. He thong thong bao luu thanh cong |
| **Alternative Pathways:** | 1. Nhan vao muc tinh tien 2. Hệ thống hiện ra giao diện de thuc hien thao tac tinh tien 3. Thuc hien thao tac tinh toan sai 4. He thong thong bao loi 5. Thuc hien lai thao tac |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | None |

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| **Use-Case ID:UC04** | **Use-Case Name:** Save bonus |
| **Actor:** | Employee |
| **Description:** | Thuc hien viec luu diem tich luy |
| **Preconditions:** | Phai dang nhap vao he thong |
| **Primary Pathway:** | 1. Nhan vao muc luu diem tich luy 2. Hệ thống hiện ra giao diện de luu diem tich luy 3. Thuc hien thao tac tinh toan tren he thong va luu lai 4. He thong thong bao luu thanh cong |
| **Alternative Pathways:** | 1. Nhan vao muc luu diem tich luy 2. Hệ thống hiện ra giao diện de thuc hien viec luu diem tich luy 3. Thuc hien thao tac tinh toan sai 4. He thong thong bao loi 5. Thuc hien lai thao tac |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | Payment |

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| **Use-Case ID:UC05** | **Use-Case Name:** Analysis and Report |
| **Actor:** | Employee |
| **Description:** | Thuc hien viec phan tich va thong ke bao cao |
| **Preconditions:** | Phai dang nhap vao he thong |
| **Primary Pathway:** | 1. Nhan vao muc phan tich va thong ke bao cao 2. Hệ thống hiện ra giao diện de phan tich va thong ke bao cao 3. Thuc hien thao tac phan tich, thong ke bao cao va luu lai 4. He thong thong bao luu thanh cong |
| **Alternative Pathways:** | 1. Nhan vao muc phan tich va thong ke bao cao 2. Hệ thống hiện ra giao diện de thuc hien viec phan tich va thong ke bao cao 3. Thuc hien thao tac phan tich va thong ke bao cao ko chinh xac 4. He thong thong bao loi 5. Thuc hien lai thao tac |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | None |

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| **Use-Case ID:UC06** | **Use-Case Name:** Manage Report |
| **Actor:** | Admin |
| **Description:** | Thuc hien viec quản ly cac phan tich va thong ke bao cao |
| **Preconditions:** | Phai dang nhap vao he thong |
| **Primary Pathway:** | 1. Nhan vao muc quan ly cac bao cao 2. Hệ thống hiện ra giao diện de kiem tra 3. Thuc hien kiem tra cac bao ca ova luu lai 4. He thong thong bao luu thanh cong |
| **Alternative Pathways:** | 1. Nhan vao muc quan ly bao cao 2. Hệ thống hiện ra giao diện de kiem tra 3. Thuc hien thao tac kiem tra sai 4. He thong thong bao loi 5. Thuc hien lai thao tac |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | None |

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| **Use-Case ID:UC07** | **Use-Case Name:** Manage Issue |
| **Actor:** | Admin, Employee |
| **Description:** | Thuc hien viec quản ly cac issue mà he thong gap phai |
| **Preconditions:** | Phai dang nhap vao he thong |
| **Primary Pathway:** | 1. Nhan vao muc quan ly issue 2. Hệ thống hiện ra giao diện de kiem tra 3. Thuc hien kiem tra issue va luu lai 4. He thong thong bao luu thanh cong |
| **Alternative Pathways:** | 1. Nhan vao muc quan ly issue 2. Hệ thống hiện ra giao diện de kiem tra 3. Thuc hien thao tac kiem tra sai 4. He thong thong bao loi 5. Thuc hien lai thao tac |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | None |

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| **Use-Case ID:UC08** | **Use-Case Name**: Logout |
| **Actor:** | Admin, Employee,Customer |
| **Description:** | Thuc hien dang xuat khoi he thong |
| **Preconditions:** | Phai dang nhap vao he thong |
| **Primary Pathway:** | 1. Nhan vao muc dang xuat 2. He thong hoi lai ban co muon dang xuat khong 3. Chọn “có” 4. He thong thong bao da dang xuat |
| **Alternative Pathways:** | 1. Nhan vao muc dang xuat 2. Hệ thống hoi lai ban co muon dang xuat khong 3. Chon “khong” 4. He thong thong bao chua dang xuat |
| **Exception Pathways:** |  |
| **Includes** |  |
| **Extends** | None |