Point of Sale System – Use Case Elaboration

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SWDV 630: OBJECT-ORIENTATED CODING 1W 20/SP1

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| USE CASE NAME: | Log into the PoS System |
| ID: | UC-C1 |
| SCENARIO: | Cashier starts their shift and is ready to take orders |
| TRIGGERING EVENT: | Cashier arrives at work to start their shift |
| BRIEF DESCRIPTION: | A cashier needs to start their shift and sign in to the PoS system to start assisting customers with their purchases. |
| ACTORS: | Cashier |
| ASSUMPTIONS: | The PoS manager has created and account for the cashier and the cashier knows their password or sign-in code. |
| FREQUENCY OF USE: | Daily |
| RELATED USE CASES: | Logout of register, Reset password |
| STAKEHOLDERS: | Business Owner |
| PRECONDITIONS: | The business is open for customers to make purchases |
| POSTCONDITIONS: | The cashier is logged in and can start serve customers |
| MAIN COURSE: | 1. Cashier touches screen to login 2. System responds with a dialog box to enter id and password 3. Cashier enters credentials and touches the login button 4. New order screen is displayed |
| ALTERNATE COURSE: | 1. Login fails    1. System responds with error message    2. Systems responds with a dialog box with currently entered username and bank password field    3. Cashier retries logging in 2. Cashier wants to reset password (see password reset use case) 3. Login fails N times    1. System locks account after N failures for X minutes |

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| USE CASE NAME: | Create cashier login account |
| ID: | UC-A1 |
| SCENARIO: | PoS admin needs to create a new cashier account |
| TRIGGERING EVENT: | A new employee is hired to be a cashier |
| BRIEF DESCRIPTION: | The PoS Admin needs to login to the management portal of the PoS system to create a new cashier account |
| ACTORS: | PoS Admin, Store Manager, Cashier |
| ASSUMPTIONS: | The store manager has provided all the information necessary to the PoS Admin to create the new cashier account |
| FREQUENCY OF USE: | Random |
| RELATED USE CASES: | Login to register |
| STAKEHOLDERS: | Cashier and Store Manager |
| PRECONDITIONS: | The PoS admin has an account with access to the management portal |
| POSTCONDITIONS: | The cashier has a username and password to login to the PoS system |
| MAIN COURSE: | 1. PoS Admin logs into management portal 2. System presents PoS management dashboard 3. PoS Admin selects ‘add new cashier login’ 4. PoS Admin enters cashier attributes |
| ALTERNATE COURSE: | 1. PoS Admin login fails    1. System responds with error message    2. Systems responds with a dialog box with currently entered username and bank password field    3. PoS Admin retries loggin in 2. PoS Admin wants to reset password (see password reset use case) 3. Login fails N times    1. System locks account after N failures for X minutes |

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| USE CASE NAME: | Ring up an item |
| ID: | UC-C2 |
| SCENARIO: | A customer wants to purchase an item |
| TRIGGERING EVENT: | Customer requests the purchase of an item |
| BRIEF DESCRIPTION: | A customer wants to purchase an item and the cashier needs to add the item to the order |
| ACTORS: | Customer, Cashier |
| ASSUMPTIONS: | The cashier is already logged into the PoS system and the item the customer wishes to purchase already exists in the PoS |
| FREQUENCY OF USE: | Multiple times per day |
| RELATED USE CASES: | Open a ticket, complete a sale |
| STAKEHOLDERS: | Business Owner |
| PRECONDITIONS: | Cashier has a has an account with access to the PoS system |
| POSTCONDITIONS: | The item the customer wishes to purchase is added to the order |
| MAIN COURSE: | 1. Customer presents the item to the cashier    1. The cashier touches the screen to add the item to the order OR    2. The cashier scans the item to add to the order OR    3. The cashier manually types the item id into the system 2. Cashier selects add next item OR 3. Cashier selects checkout |
| ALTERNATE COURSE: | 1. Item is not found in the PoS system 2. Customer decides not to purchase the item after the item is added to the order |

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| USE CASE NAME: | Create Item(s) |
| ID: | UC-A2 |
| SCENARIO: | Items need to be added to the PoS system |
| TRIGGERING EVENT: | PoS setup or PoS updated |
| BRIEF DESCRIPTION: | The PoS Admin needs to update the PoS system with new items available for sale |
| ACTORS: | PoS Admin |
| ASSUMPTIONS: | The PoS system is already set up with items and the PoS admin has access to the PoS management portal |
| FREQUENCY OF USE: | Weekly |
| RELATED USE CASES: | Create Departments |
| STAKEHOLDERS: | Store Manager |
| PRECONDITIONS: | The Store Manager has provided the PoS admin with the details needed to add the new item(s) |
| POSTCONDITIONS: | The new item(s) are available in the PoS system |
| MAIN COURSE: | 1. PoS Admin logs into the Pos management portal 2. The system presents a list of activities 3. The PoS Admin select Add new item 4. The system presents a list of departments 5. The PoS Admin selects the department 6. The PoS Admin adds the properties for the new item |
| ALTERNATE COURSE: | 1. The department for the new item does not exist    1. The PoS admin selects add new department    2. The PoS Admin adds the properties for the new department 2. PoS Admin login fails    1. System responds with error message    2. Systems responds with a dialog box with currently entered username and bank password field    3. PoS Admin retries loggin in 3. PoS Admin wants to reset password (see password reset use case) 4. Login fails N times    1. System locks account after N failures for X minutes |