**Use Case Document**

Use Case Diagram:



(E-Logistics Management)

Use Case Specification:

1. **Login/Logout**

Description: This use case allows User access his account and use the application.

Actors: Warehouse personnel, Customer

Frequency: High

Priority: High. Must be implemented.

Pre-Condition:

Login:

1. User must be registered
2. Login Page must be loaded

Logout:

1. User must be logged in

Basic Flow:

Login:

1. User clicks on Login button
2. Login Page loads
3. User enters details Id and password
4. User clicks on Login button
5. System queries database to verify entered details
6. User is logged in

Logout:

1. User clicks on Logout button.
2. User is Logged out to the start screen.

Alternate Flow:

1. User enters wrong Id or Password, ‘Invalid User’ Message is displayed and fields are cleared
2. If any fields are left blank and user clicks submit then ‘Please fill all details’ message is displayed and fields are cleared

Post Condition:

1. The User must be able to perform all functions allowed
2. User must get logged in to the correct account

Special Condition: Login/Logout should be quick within 1-2 secs.

1. **Scan & Store product**

Description: This use case describes how warehouse personnel can store products

Actors: warehouse personnel

Frequency:

Priority: High. Must be implemented.

Pre-Condition: User must be logged in

Basic Flow:

1. Product is scanned and all information is displayed on the screen.
2. After all packages are scanned and information is available the personnel click the ‘done’ button.
3. The system then according to the pin code of the delivery address gives location (an aisle allocated for the pin code) where the product is to be stored.

Alternate Flow:

1. Product is scanned and no information is extracted.

Post Condition: All the products should be sorted according to the pin code and should be allocated location in the warehouse accordingly.

Special Condition: The system process should not take more than 2-3 seconds

1. **Track Product**

Description: This use case allows customer to track the package.

Actors: Customer

Frequency: Medium

Priority: Medium, not critical for the software to work.

Pre-Condition:

1. Customer must be logged in.
2. The customer must know the tracking id, which is given by the seller

Basic Flow:

1. User logs in and enters the tracking id.
2. User clicks the track button.
3. Current location of the package and the estimated delivery date is displayed.

Alternate Flow:

1. User enters the wrong tracking id.
2. Error message pop up and the customer is asked to enter the id again.

Post Condition: User should get appropriate tracking details of the package.

Special Condition: The querying should not take more than 2-3 seconds.

1. **Update Inventory**

Description: This use case describes how the warehouse personnel can update (add or remove packages) from the inventory.

Actors: Warehouse personnel

Frequency: High

Priority: High, must be implemented.

Pre-Condition:

1. Warehouse personnel must be logged in.

Basic Flow:

1. The personnel can scan and add product as it is received in the warehouses inventory database.
2. If the package is cancelled the warehouse personnel selects the package and clicks on ‘add to return list’ (this adds the package in another list which is to be sent back to the seller).

Alternate Flow:

1. Product is scanned and no information is extracted.
2. The product is not added to the return list.

Post Condition: Packages should be added or removed from the list.

Special Condition: The system process should not take more than 2-3 seconds.

1. **View Current Inventory**

Description: This use case describes how the warehouse personnel can see the current inventory.

Actors: Warehouse personnel

Frequency: Low

Priority: Medium.

Pre-Condition:

1. Personnel must be logged in

Basic Flow:

1. The warehouse personnel clicks on show all packages button
2. The system displays all the packages with details sorted according to the pin code.

Alternate Flow:

1. If the warehouse has no packages then it shows no results

Post Condition: System should display all the packages with details sorted according to the pin code.

Special Condition: The database query ing should not take more than 2-3 seconds.

1. **Search & Locate Packages**

Description: This use case describes how the warehouse personnel can search for a package in the warehouse.

Actors: Warehouse personnel

Frequency: Medium

Priority: High, must be implemented.

Pre-Condition:

1. Personnel must be logged in.

Basic Flow:

1. Warehouse personnel put the package id or the delivery pin code
2. If package id is put the system displays the corresponding package details and its location in the warehouse.
3. If pin code is put the system displays all the packages currently present corresponding to the pin code and its location in the warehouse.

Alternate Flow:

1. If there are no packages corresponding to the search criteria mentioned the system show ‘No result found’.

Post Condition: System should display all the packages with details & location in the warehouse according to the search criteria.

Special Condition: The database querying should not take more than 2-3 seconds.

1. **Warehouse Report**

Description: This use case describes how the warehouse personnel gets the list of all the packages in the warehouse at the end of each day.

Actors: Warehouse personnel

Frequency: Medium

Priority: Medium.

Pre-Condition:

1. Personnel must be logged in.

Basic Flow:

1. The warehouse personnel at the end of everyday gets a report of all the packages currently in the warehouse.
2. Personnel clicks on the ‘get report’ button, the system generates the report/list of all the packages present in the warehouse
3. The list is displayed.

Alternate Flow:

1. If the warehouse has no packages then it shows no results

Post Condition: System should display all the packages currently in the warehouse with details & location in the warehouse.

Special Condition: The database querying should not take more than 2-3 seconds.

1. **Assign Delivery Personnel**

Description: This use case describes how the system assigns packages to deliver to the delivery personnel and also a route for greater efficiency.

Actors: Warehouse personnel

Frequency: High

Priority High, must be implemented.

Pre-Condition:

1. Personnel must be logged in.

Basic Flow:

1. The warehouse personnel clicks on delivery allocation.
2. As per the number of delivery personnel and the number of packages the system assigns 1 or 2 pin codes to each delivery personnel
3. The list of packages and the route is sent to the delivery personnel.

Alternate Flow:

1. If there are no packages the system displays no packages

Post Condition: System should send the correct list of packages and the route to the delivery personnel

Special Condition: The task should not take more than 2-3 seconds.

1. **Handle returned and cancelled packages**

Description: This use case describes how the warehouse personnel can manage the returned and cancelled packages

Actors: Warehouse personnel

Frequency: Medium

Priority High, must be implemented.

Pre-Condition:

1. Personnel must be logged in.
2. Sellers address must be present.

Basic Flow:

1. If return is initiated the package is picked up by the delivery personnel.
2. If package is cancelled or a returned package then the personnel searches the package, selects it and clicks on ‘add to return list’
3. The package is added to the return list and the physical package is also moved to the new location in the warehouse by the personnel.
4. The return list is displayed after the personnel click done or clicks on the ‘return list button’

Alternate Flow:

1. If no returned or cancelled packages the system displays no packages found

Post Condition: System should display the return list that is the list of packages which is to be sent back to the seller.

Special Condition: The system process should not take more than 2-3 seconds.