**Reset Password:**

|  |  |
| --- | --- |
| Use Case ID | U01 |
| Name | Login |
| Actor | The Manager, Rider, Inventory Supervisor and Sales agent. |
| Description | It describes how the user logs into the Distribution System application. |
| Flow | Base Flow:   1. The actor opens the application. 2. The system asks the actor to enter his email ID and password assigned by the company. 3. He enters the above details. 4. The system validates the entered details and logs the actor into the system.   Alternative flow:  2a. The actor enters an invalid email and/or password.  1. The system displays an error message.  1a. The actor cancel the login.  1b. The actor uses U02. |

|  |  |
| --- | --- |
| Use Case ID | U02 |
| Name | Reset Password |
| Actor | The Manager, Rider, Inventory Supervisor and Sales agent. |
| Description | If the actor forgets his/her password, they can reset it. |
| Flow | Base Flow:   1. The user opens the application. 2. He enters the email and password. 3. He clicks on login. 4. The system displays an error message. 5. He clicks on forget password. 6. After clicking, he receives an email containing the new password.   Repeats step 1-3   1. Successfully login into the system. |

**Add Employee:**

|  |  |
| --- | --- |
| Use Case ID | U03 |
| Name | Add Employee |
| Actor | The Manager |
| Description | The Manager can add a new employee to the company. It could either be the rider, sales agent, workers or the inventory supervisor. He would take the name, email, CNIC, address and other details. After filling out the details, he will give them a password, status, a User Id and a base salary depending upon the status. |
| Flow | Base Flow:   1. Customer arrives at company. 2. Fill out the form to give interview. 3. After passing interview, he will officially become company’s employee. 4. To give him access to the application, the Manager logs into his system. 5. The manager will register that employee by entering all his details which include his name, CNIC, e-mail, address, status, bank account, telephone number and age. 6. After entering all his information, Manager has given his login details to login into application.   Alternative Flow:  4a. The Manager forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account.  3-5a. The employee is a simple inventory worker.  1. He will not be given any account, as there is no portal for inventory worker. |

**Update Employee:**

|  |  |
| --- | --- |
| Use Case ID | U04 |
| Name | Update Employee |
| Actor | The Manager |
| Description | The Manager is able to update employees by clicking the button that list the employees and then select the employee whose information needs to be update. |
| Flow | Base Flow:   1. The Manager logged into the system. 2. An employee comes to him and asks to change some information about him. 3. The Manager clicks on the button and gets the list of all the employees of the company. 4. He searches for that particular employee. 5. He clicks and updates the information that is required to be updated.   Alternative Flow:  1a. The Manager forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account  4a. The employee name does not found in the data base.  1. The Manager performs an override operation (Add employee). |

**Delete Employee:**

|  |  |
| --- | --- |
| Use Case ID | U05 |
| Name | Delete Employee |
| Actor | The Manager |
| Description | The Manager gets to fire the employee by deleting his information from the Database or when any employee leaves the company. |
| Flow | Base Flow:   1. The Manager logs into the system. 2. An employee comes to him and asks to resign 3. The Manager clicks on delete employee option. 4. The Manager gets the list of all the employees of the company. 5. He searches for that particular employee. 6. He clicks and deletes that employee.   Alternative Flow:  1a. The Manager forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account  2a. The Manager fires an employee.  Repeats 3-6 (Basic Flow)  5a. The employee is a rider.  1. The vehicle associated with him is now free. |

**Add Vehicle:**

|  |  |
| --- | --- |
| Use Case ID | U06 |
| Name | Add Vehicle |
| Actor | The Manager |
| Description | The Manager buys a new vehicle for the riders to deliver the products to the clients. |
| Flow | Base Flow:   1. The Company bought a new vehicle. 2. The Manager logs into the system. 3. He clicks on the button of add vehicle. 4. Enters the truck model number, fuel average of that truck and other details regarding that truck. 5. Enters the price of that truck. 6. Clicks add. 7. Money gets deducted from the company account. 8. Vehicle information is added to the vehicle report by the System.   Alternative Flow:  2a. The Manager forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account. |

**Deduction of Fuel Money:**

|  |  |
| --- | --- |
| Use Case ID | U07 |
| Name | Deduction of Fuel Money |
| Actor | The Manager |
| Description | The rider will send a report to the Manager on a weekly or daily basis about the fuel consumption of the vehicle assigned to him. Depending upon that report money will be deducted from the company account automatically by the confirmation of the Manager. |
| Flow | Base Flow:   1. The rider opens the fuel report. 2. Adds all the information about fuel consumption. 3. After clicking sent report, the Manager will receive the report. 4. The Manager will open finance module and will deduct the total amount of money spend on fuel of each vehicle. |

**Check Attendance:**

|  |  |
| --- | --- |
| Use Case ID | U08 |
| Name | Check attendance |
| Actor | The Manager |
| Description | Manager gets to check the daily attendance of each employee that works in the company. |
| Flow | Base Flow:   1. The Manager logs into the system. 2. He clicks to see attendance of all employees. 3. A table gets displayed with employee name, status and his attendance.   Alternative Flow:  1a. The Manager forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account.  3a. The owner asks for a report of attendance.  1. The Managers exports the table into a.csv file. |

**Give Salaries:**

|  |  |
| --- | --- |
| Use Case ID | U09 |
| Name | Give Salaries |
| Actor | The Manager |
| Description | The Manager is in the charge of giving salaries to all the employees each month. |
| Flow | Base Flow:   1. The Manager logs into the system. 2. He clicks on the Finance button and from the dropdown menu, he selects “Salaries and bonus”. 3. Now he can view the all the employees and the salary that is needed to be paid to them. 4. When the manager clicks pay button, money will be transferred to their account and deducted from the company account. 5. A message box will be shown of successfully transaction of money. 6. An email would be sent out to the employee being paid.   Alternative flow:  1a. The Manager forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account.  4a. Company account does not have enough money to pay the employees.  1. The company declares bankruptcy.  4b. The Date has passed and the manager forgot to pay any employee.  1. Rs. 1000/day gets paid to the employee. |

**Give Bonus:**

|  |  |
| --- | --- |
| Use Case ID | U10 |
| Name | Give Bonus |
| Actor | The Manager |
| Description | The Manager give bonuses to riders and sales agent depending upon their monthly performances based upon bar chart. |
| Flow | Base Flow:   1. The Manager logged into the system. 2. He clicks on the Finance button and from the dropdown menu, he selects “Salaries”. 3. Two bar graphs will be shown to him. First will be of the rider performances based on their total orders and sales agent depending upon the working days. 4. He will select the employee and click on Bonus button. 5. A pop up will be shown in which he will input the bonus amount ranging from 10 thousand to 20 for rider and 5 to 10 thousand for the sales agent. 6. He clicks on pay and the money will be transferred to the employee.   Alternative flow:  1a. The Manager forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account. |

**Tracking financial record:**

|  |  |
| --- | --- |
| Use Case ID | U11 |
| Name | Tracking Financial record |
| Actor | The Manager |
| Description | The Manager gets to view all the reports of the company and available balance in the company account. |
| Flow | Base Flow:   1. The Manager logs into the system 2. He clicks on the Finance button and from the dropdown menu; he selects “Company account”. 3. Analytical reports will be shown to him containing:  * Total Salaries * Fuel Consumption * Bonuses * Warehouse Expense * Stock Expense * Vehicles .  1. He exports these into .csv files. 2. He also sees the company’s total money.   Alternative flow:  1a. The Manager forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account. |

**Buy Stock:**

|  |  |
| --- | --- |
| Use Case ID | U12 |
| Name | Buy Stock |
| Actor | Inventory Supervisor |
| Description | Inventory Supervisor will be able to buy the products according to its requirement. Before placing the order, he will get confirmation from the manager through the email and we are assuming the products will be reached after one day and check-in by inventory manager. |
| Flow | Base Flow:   1. Supervisor logs into the system. 2. Supervisor clicks the Buy stock button in the side bar menu. 3. Buy Stock page is shown to the Supervisor. 4. He places the order by filling the information like product name, size, quantity and other details. 5. After this, price of individual product and the price of total placed order will be shown to him. 6. The manager will receive the confirmation email from the supervisor. It is upon him whether he confirms the order or he cancels the order. 7. When he receives the confirmation email from the manager then the confirmed order will be placed. 8. The order will be added in the stock after one day.   Alternative Flow:  1a. He forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account  4a. He enters the quantity ‘1’.  1. A constraint will be applied that he cannot place the order when he buys product less than a certain quantity.  4b. He has to buy another product at the same time.  1. He clicks on ‘Add to cart’ for the previous order.  2. It will be added to the cart shown on the right side of screen.  3. He enters the details of the next order.  4. Goes to cart and click on request order.  7a. He receives the rejection email from the manager.  1. He will cancel the order. |

**Update Stock:**

|  |  |
| --- | --- |
| Use Case ID | U13 |
| Name | Update Stock |
| Actor | Inventory Supervisor |
| Description | Inventory supervisor will be able to update the stock when the order will be delivered by the rider. He can also view the pending orders and the completed orders. |
| Flow | Base Flow:   1. The rider comes to the warehouse to pick up his order. 2. Supervisor logs into the system. 3. Supervisor clicks on the ‘Update stock’ button 4. A table is displayed that contains all the available stock in the warehouse. 5. He enters the order that is required by the rider. 6. Automatically these things will be deducted from the warehouse stock.   Alternative Flow:  2a. He forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account.  5a. The order required by the rider is not available in the warehouse stock.  1. The rider will be unable to take the order from the shopkeeper that is not available in the warehouse. |

**Confirm Stock:**

|  |  |
| --- | --- |
| Use Case ID | U14 |
| Name | Confirm Stock |
| Actor | The Manager |
| Description | Manager gives the approval of what to buy from the supplier or what not. |
| Flow | Base Flow:   1. The inventory Supervisor has to buy some stock. 2. He requests the manager for approval. 3. Supervisor sent an email to Manager. 4. The Manager logs into the system. 5. Manager clicks on the ‘Notifications’ button 6. He views the order. 7. He clicks on accept. 8. Automatically these things will be added from the warehouse stock after one day.   Alternative Flow:  4a. He forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account.  7a. He clicks on decline.  1. The inventory Supervisor gets notification that the order has been declined by the Manager.. |

**Mark Attendance:**

|  |  |
| --- | --- |
| Use Case ID | U15 |
| Name | Mark Attendance |
| Actor | Inventory Supervisor, Rider, Sales Agent |
| Description | The actor marks his/her daily attendance and the report is send to the Manager. |
| Flow | Base Flow:   1. The actor logs into the System. 2. He goes to attendance section. 3. Marks his attendance. 4. Press OK. 5. Automatically a report will be generated and send out to the Manager.   Alternative Flow:  1a. He forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account.  1b. He does not have an account (inventory worker).  1. The inventory Supervisor clicks on attendance.  2. A table is displayed that contains all the workers under him.  3. He marks their attendance along with his own. |

**View Stock:**

|  |  |
| --- | --- |
| Use Case ID | U16 |
| Name | View Stock |
| Actor | Inventory Supervisor |
| Description | The Supervisor gets to see available stock in warehouse for any purpose. |
| Flow | Base Flow:   1. The Supervisor logs into the System. 2. He clicks on View stock button to know how much stock is available in the warehouse. 3. A table is displayed to him.   Alternative Flow:  1a. He forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account. |

**Determining Price:**

|  |  |
| --- | --- |
| Use Case ID | U17 |
| Name | Determining Price |
| Actor | Inventory Supervisor |
| Description | Inventory supervisor can report holding, carrying and total costs. He will calculate the selling cost of the product after calculating all the company expenses. |
| Flow | Base Flow:   1. He logs into the System. 2. He clicks to calculate the selling price of an item present in the warehouse. 3. He enters the details of the product to determine its selling price for the clients. 4. He clicks on calculate and the selling price of that item is displayed.   Alternative Flow:  1a. He forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account. |

**Add Client:**

|  |  |
| --- | --- |
| Use Case ID | U18 |
| Name | Add Client |
| Actor | Rider |
| Description | Rider will reach his assigned location and take details from the Shop Keeper. The information taken by the rider will reach to the sales agent and then sales agent will perform its certain actions. |
| Flow | Base Flow:   1. Rider reaches the Shop Keeper and he presses the Take Order button. 2. Take Order screen will open where he can see all the products available with their prices. 3. He adds the information of the client including the following details:  * Name * CNIC * Email * Address * Number  1. Then client is having been created and rider takes the order.   Alternative Flow:  1a. The rider forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account   3a. The client is already an existing customer of the company.   1. Rider just enters the CNIC and the remaining information is automatically fills out. |

**Take Order:**

|  |  |
| --- | --- |
| Use Case ID | U19 |
| Name | Take Order |
| Actor | Rider |
| Description | Rider will reach his assigned location and take order from the Shop Keeper. The information taken by the rider will reach to the sales agent and then sales agent will perform its certain actions. |
| Flow | Base Flow:   1. Rider reaches the Shop Keeper. 2. He logs into the system. 3. He presses the Take Order button. 4. Take Order screen opens and he takes the order details like Product category, name and quantity. 5. He presses the place order button. 6. The information will be delivered to the sales agent. 7. The receipt gets generated on which the total payment will be shown. 8. Customer pays the advance. 9. Rider enters the paid amount by the client into the system.   Alternative Flow:  2a. Rider forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account.   4a. Required order of client is not available in the stock.   1. Rider sends an email to the Supervisor about the unavailability of the product. 2. He tells the client about the unavailability. 3. Client places a new order.   3a. Client cancels to place any order.  8a. The client is already an existing customer of the company.   1. He can/cannot pay the advance. |

**Deliver Order:**

|  |  |
| --- | --- |
| Use Case ID | U20 |
| Name | Deliver Order |
| Actor | Rider |
| Description | Rider will reach his location of shopkeeper and deliver his order. He receives the remaining payable amount of the shopkeeper. |
| Flow | Base Flow:   1. He logs into the system. 2. He clicks to view which order he has to deliver today. 3. He arrives at warehouse. 4. Picks up the order. 5. He reaches at his destined location. 6. He delivers the order to the shopkeeper. 7. Shopkeeper pays the remaining amount. 8. Rider enters the paid amount and mark tick on that client; assuring that the order has been delivered.   Alternative Flow:  1a. Rider forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account.   8a. The client is already an existing customer of the company.  1. He pays the total amount of the order.  1a. He asks the rider to pay later.  1. Rider enters the amount of that client into the cash book. |

**Pending Orders:**

|  |  |
| --- | --- |
| Use Case ID | U21 |
| Name | Pending Orders |
| Actor | Rider |
| Description | The rider can check the orders created. He has an option to view all the pending orders that have to be delivered in the given amount of time. |
| Flow | Base Flow:   1. The rider logged in to the system. 2. He clicks the button to check the to-do-list. 3. After clicking, all the order that have not been delivered to the required customers will be shown to him. 4. He can click on any specific pending order to check its details. 5. Remaining delivery time of all orders is also shown on the right side. 6. He clicks on tick button when the order is delivered and payment is received.   Alternative flow:  1a. The rider forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account. |

**View Orders history:**

|  |  |
| --- | --- |
| Use Case ID | U22 |
| Name | View Orders history |
| Actor | Rider |
| Description | The rider can check the orders created. He has an option to view all the orders that have been delivered to the required clients. |
| Flow | Base Flow:   1. The rider logged in to the system. 2. He clicks the view the history of all the orders that have been delivered. 3. A table is displayed to him accounting all the information.   Alternative flow:  1a. The rider forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account. |

**Add Fuel Details:**

|  |  |
| --- | --- |
| Use Case ID | U23 |
| Name | Add Fuel Details |
| Actor | The Rider |
| Description | The rider is also assigned a vehicle by the Sales agent. The rider adds the Refuelling date in the report of fuel consumption. The cost of each day and number of kilometres the vehicle is driven are also added into the report. |
| Flow | Base Flow:   1. The First thing Rider does in the morning is arriving at the gas station. 2. He asks the pump employee to fill the gas. 3. He logs into the system. 4. He clicks on the fuel report. 5. He adds truck number at the top only for one time and fuel cost per litre. 6. He adds the date, kilometre being shown on the vehicle’s odometer, total volume of fuel in litres and the cost. 7. He clicks on update and the report is send to the Manager.   Alternative flow:  3a. The Rider forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account. |

**Assigning Location:**

|  |  |
| --- | --- |
| Use Case ID | U24 |
| Name | Assigning Location |
| Actor | Sales Agent |
| Description | Sales Agent will assign the location to all the riders. |
| Flow | Base Flow:   1. The Sales agent logs into the system. 2. He clicks on the assign location button in side bar menu and the screen will be shown to him. 3. He will select the rider from the dropdown. 4. He selects the location from the drop down and clicks on the assign button. 5. The location will be assigned.   Alternative Flow:  1a. The sales agent forgot its password.  1. The sales agent clicks on “Forgot Password” to recover his account.  3a. A rider is already covering an area.  1. Sales Agent cannot select him for another location. A error message will be shown.  4a. A rider has already been assigned that location.  1. The Sales agent again assigns that location to another rider. |

**Assigning Vehicle:**

|  |  |
| --- | --- |
| Use Case ID | U25 |
| Name | Assigning Vehicle |
| Actor | Sales Agent |
| Description | Sales Agent will assign vehicles to all the riders. |
| Flow | Base Flow:   1. The Sales agent logs into the system. 2. He clicks on the assign vehicle button in side bar menu and the screen will be shown to him. 3. He will select the rider from the dropdown. 4. He selects the vehicle from the drop down and clicks on the assign button. 5. The vehicle will be assigned.   Alternative Flow:  1a. The sales agent forgot its password.  1. The sales agent clicks on “Forgot Password” to recover his account.  3a. Rider already has an assigned vehicle.  1. An error message will be displayed. |

**Tracking Order:**

|  |  |
| --- | --- |
| Use Case ID | U26 |
| Name | Tracking Order |
| Actor | Sales Agent |
| Description | Sales Agent has the power to view all the riders current and previous orders history. |
| Flow | Base Flow:   1. The Sales Agent logged into the system. 2. He clicks on the track order button to get the information about an order. 3. He selects the name of the riders from the dropdown menu. 4. The agent gets to view the rider and all his delivered orders and pending orders.   Alternative flow:  1a. The rider forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account. |

**View Cashbook:**

|  |  |
| --- | --- |
| Use Case ID | U27 |
| Name | View Cashbook |
| Actor | Sales Agent |
| Description | Sales Agent gets to see which clients have not paid the order amount and send out an email to remind them after 15 days. |
| Flow | Base Flow:   1. The Sales Agent logs into the system. 2. He clicks on ‘Clients’. 3. A table is displayed containing all clients and their due amount of money. 4. Sales agent click on email button to send them a reminder.   Alternative flow:  1a. The rider forgets his password.  1. He clicks on ‘Forgot Password’ to recover his account.  3a. Client has zero due amounts.  1. Email option gets removed |

**Creating shortest Path:**

|  |  |
| --- | --- |
| Use Case ID | U28 |
| Name | Creating shortest Path |
| Actor | Sales Agent |
| Description | The rider is also assigned a vehicle by the Sales agent. The sales agent will assign him a field area. To deliver orders, rider has to use minimum fuel. So, sales Agent will define a shortest path to deliver orders to minimize fuel cost and maximize profit. Sales agent will use maps to show him shortest path. |
| Flow | Base Flow:   1. Sales agent opens his portal by entering email and password. 2. He opens the tab to define areas of riders. 3. He assigns a location to any rider. 4. He opens application defined map to determine the shortest path to reach that area and save it.   Alternative flow:  1a. The sales agent forgets his portal password.  1. He clicks on ‘Forgot Password’ to recover his account. |

**Finding Path**

|  |  |
| --- | --- |
| Use Case ID | U29 |
| Name | Finding path |
| Actor | Rider |
| Description | The rider reaches the location where order is to be delivered using application map and Google map. |
| Flow | Base Flow:   1. The rider logs into the system. 2. He clicks the button to check the to-do-list. 3. He views all the orders that are needed to be delivered. 4. He clicks on any particular that he is going to deliver. 5. He clicks on the location of that order. 6. The application map opens providing him with the shortest path to that area.   Alternative flow:  1a. The rider forgets his portal password.  1. He clicks on ‘Forgot Password’ to recover his account. |

**Cancel Order:**

|  |  |
| --- | --- |
| Use Case ID | U30 |
| Name | Cancel Order |
| Actor | Rider |
| Description | The rider can check the orders created. He has an option to view all the pending orders that have to be delivered in the given amount of time. He can also cancel the order if asked by the customer. |
| Flow | Base Flow:   1. The rider logs in to the system. 2. He clicks the button to check the to-do-list. 3. After clicking, all the order that have not been delivered to the required customers will be shown to him. 4. He is taking order and at that time, opens this window, he will also have an option to delete or cancel the order.   Alternative flow:  1a. The rider forgets his password.   1. He clicks on ‘Forgot Password’ to recover his account.   6a. The shopkeeper wants to cancel half, less than half or more from the order he just placed.   1. When rider clicks on the ‘cancel’ button of that order, he will be displayed the quantity which he can increment or decrement according to the wish of the shopkeeper   6b. The shopkeeper wants to cancel half, less than half or more from the order he placed at the time of delivery.   1. A message box will be shown that the client cannot cancel his order now.   1a. He insists on cancel the order and refuse to receive.  1. When rider clicks on the ‘cancel’ button of that order, 10% will be deducted from the advanced payment of the order.  2. The order is delivered back to the warehouse and gets added in the stock. |