**Delivery Management**

**Epic:** Delivery Management: The delivery management system is developed to coordinate the delivery of goods to the customer. Three stakeholders are contributing to this delivery process of Dean Apparel company (Deliveryman, Customer, Admin).

Deliveryman can log in to the system separately. And common settings can be used such as editing the profile. The deliveryman can enter the driving license into the system. There is a separate user interface for this. Also, information such as vehicle number and the delivery list is displayed in the deliverymen’s profile (Vehicle no, Order ID, delivery ID, Customer phone NO,). This allows the deliveryman to identify his deliveries separately. And the location tracking facility makes the delivery man’s job easier. It can track the distance to the respective customer’s location and the speed required to get there. After completing the delivery, the deliveryman should enter the information into the system. They are Order Id, Product Id, Product name, Customer Name, Customer NIC, Customer email, and delivered or not.

Once the delivery is successful, the system sends an email to the customer. And, customer can see their own order list in their profile.

In the admin profile, he can see some special information than other users. They are the delivery list, order list, and vehicle list. Based on this information he can place the delivery. This delivery placement is done in inventory management. Additionally, the admin can generate reports using this information.

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| **Feature** | **User Story ID** | **User Story** |  | **Tasks** |
| User login (Deliveryman, customer, Admin) |  | : As a user, I want to be able to log in to the system so that I can access the system. | Design the Login form.  Develop backend logic for authenticating user credentials.  Implement front-end validation for user input.  Generate a session.  Redirect the user to their account dashboard after successful login. | |
| Location tracking. |  | As a Deliveryman, I want to track the customer locations, So that I can make deliveries easily and efficiently. | Design the customer location tracking UI.  Implement the GPS location tracking functionality for the delivery man's profile.  Integrate a map library such as Google Maps.  Display the customer’s location on the Delivery man’s profile. | |
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| Update the information. |  | As a deliveryman, I want to update the delivery details, So that I can provide proof of completion of the delivery. | Create UI for the Update information.  Create a form for that.  Get information using java codes.  Store that information in Database using Java codes. | |
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| Display the delivery details. |  | As a deliveryman, I want to see the information about customers and delivery So that, I can easily identify the product and customer. | Create a UI for Displaying information.  Develop a java code and SQL code to fetch data from the Database.  Run the code and get the information.  Display the information in the user’s profile. | |
|  | As a customer, I want to see my order list So that, I can identify whether my orders are delivered or not. |
|  | As an Admin, I want to see the order list, vehicle list, and delivery list So that, I can assign orders to the delivery persons. |
| Generate reports. |  | As an Admin, I want to generate reports, So that I can analyze monthly and daily deliveries. | Create export buttons on necessary function pages.  Create functions for generating reports. | |
| Log-out (Deliveryman, customer, Admin) |  | As a user, I want to log out from the system, so that it adds more security to the system. | Create a Logout button.  Create a log-out function and destroy the session.  Set the function for the button. | |
| Add a driven license to the system |  | As a deliveryman, I need to upload a driven license to the system So that, Admin can use this information for assigning deliveries. | Create a user interface for uploading using forms.  Implement uploading function using java.  Set the directory to store images.  Connect to the database using SQL.  Store the image name with the type in the database. | |
| Edit profile |  | As a user, I want to edit my profile So that, I can update my current information in the system. | Create a user interface for editing profiles.  Implement Crud operations using java.  Connect to the database using SQL. | |
| Send email |  | As a customer, I want the system to send me an email So that, I can confirm that the delivery is successful. | Develop java coding to generate the emails.  Connect with API (Google email services).  Select completed deliveries with customers.  Send emails to all customers that delivery is completed. | |