

Transport Management System

Proposed for:
Hunas Holdings PLC

Introduction

This is a proposed transport management system for Hunas Holdings PLC. The system itself provides feature to register drivers & vehicles to where admin can monitor all records and generate reports for audit purposes. Furthermore, the system facilitates to use both in laptops/PC and mobile devices.

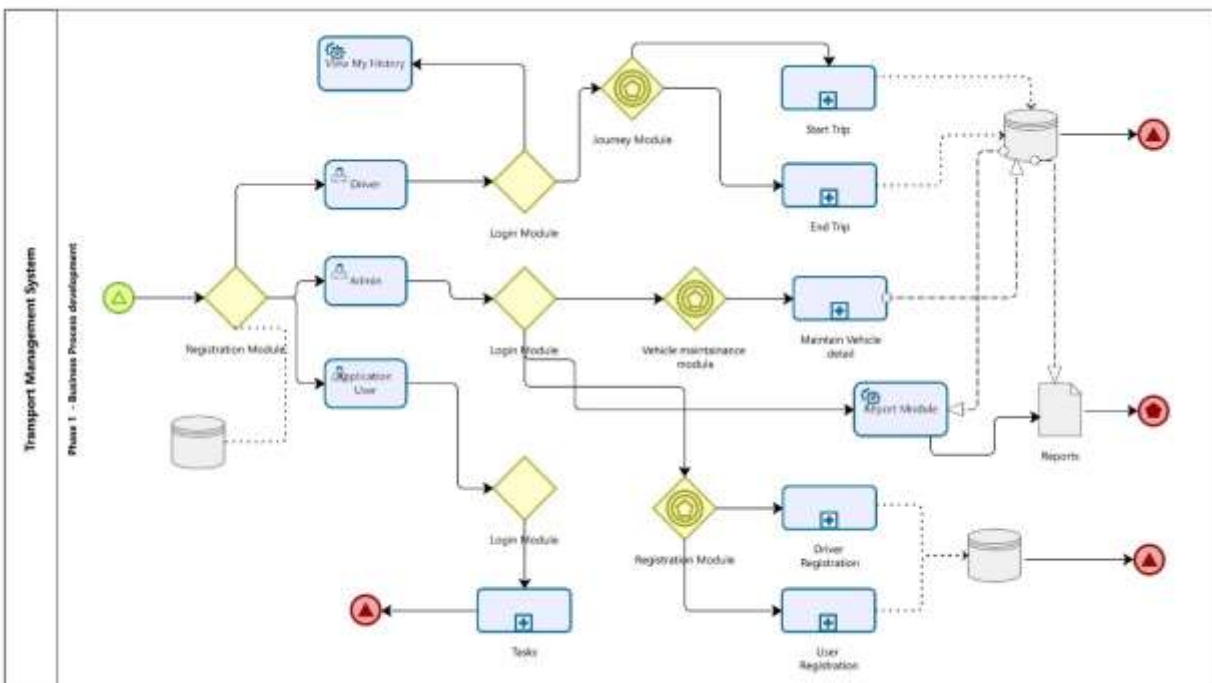
Objectives

- Reduce paperwork & time saving.
- Monitor transportation process.
- Keep track of vehicle & driver details in a single place.

Process & Strategy

- This is a web-based application which can be used on smart mobile devices as well.
- Upon the user login system shall identify the user type (Driver, Admin, Application User etc).
- Admin can register new user types / create logins for new users.
- Admin can access to vehicle maintenance module which allows to keep track of vehicle maintenance records.
- Admin can access to report module which allows management to generate necessary report for audit purposes.
- Drivers can access to Journey module to update start trip details & end trip details. Further, drivers can view his previous trip details via 'View my history' option.

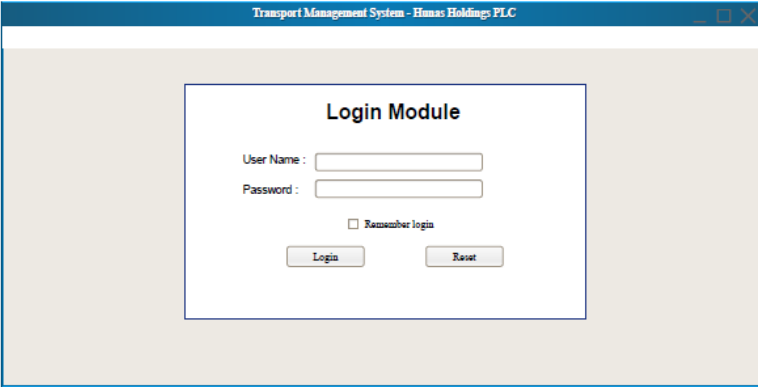
BPM of Transport Management System



Sample wireframes of the development

Login Page

- ✓ This is the initial screen when user navigates upon entering URL on the browser (Mobile or Web).
- ✓ Registered users can login to the system via providing correct username & correct password.
- ✓ User should be able to save the login credential by tick on 'Remember login' check box.
- ✓ User can reset the login credential by clicking 'Reset' button. When user click on reset button new password shall SMS to the given mobile number during the user registration process.



The wireframe shows a web browser window titled "Transport Management System - Hunas Holdings PLC". Inside the window is a "Login Module" form. The form contains two input fields: "User Name :" and "Password :". Below these fields is a checkbox labeled "Remember login". At the bottom of the form are two buttons: "Login" and "Reset".

Home Page

- ✓ Upon the Admin login to the system, admin has three main options for administration related tasks.
- ✓ Registration Module allows admin to register new users with the system.
- ✓ Vehicle maintenance module allows admin to keep track of vehicle details.
- ✓ Report module allows admin to generate timely report for audit purposes.



The wireframe shows a web browser window titled "Home Page - Admin". Inside the window, it says "Welcome! 'AdminName'". Below this, there are three buttons: "Registration Module", "Vehicle Maintenance", and "View my history". At the bottom left, there is a "Back" button with a left-pointing arrow.

- ✓ Upon the driver login to the system. Driver has two main options.
- ✓ Journey module is the option where drivers can update their trip details.
- ✓ View my history option allows drivers to quickly view his/her previous trip details (this is just a basic report while comprehensive report only allows for admin users)



Driver registration

- ✓ Each driver should be registered with the system before driver entitle for update trip details.
- ✓ During the driver registration basic KYC details will be collected.
- ✓ Under the attachment section system allows to upload any pdf documents related to driver registration (Such as, copy of NIC, copy of driving license etc).
- ✓ User type drop down provides available user types for registration (Driver, Admin or Application user).

Admin Registration

- ✓ Each admin should be registered with the system before admin entitle for administrative tasks.
- ✓ During the admin registration basic KYC details will be collected.
- ✓ Under the attachment section system allows to upload any pdf documents related to driver registration (Such as, copy of NIC, copy of birth certificate etc).
- ✓ User type drop down provides available user types for registration (Driver, Admin or Application user).

The screenshot shows a web application window titled "Trip Details". The breadcrumb navigation is "Home > Registration Module > Admin Registration". The main heading is "Admin Registration". Below it, the "User Details" section contains the following fields: First Name (text input), Last Name (text input), Date of Birth (Date picker), Gender (radio buttons for Male and Female), RID (text input), Mobile No (text input), Email (text input), Attachments (text input with a "Browse" button), and Note (text area). At the bottom, there is a "Create User" section with a "User Type" dropdown menu, "User Name" (text input), "Password" (text input), and "Re-Enter Password" (text input). There are "Back", "Register", and "Reset" buttons.

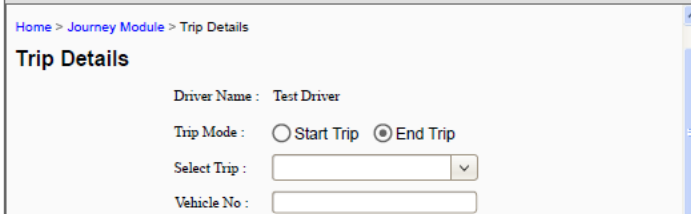
Start Trip

- ✓ Before starting a trip, drivers should enter below details. Only the registered drivers with the system can access to this option.
- ✓ Registered vehicle numbers will be populated from the drop down menu.
- ✓ Once driver submit below details, system will keep a record under a unique trip ID with the trip status of 'IN PROGRESS'.

The screenshot shows a web application window titled "Trip Details". The breadcrumb navigation is "Home > Journey Module > Trip Details". The main heading is "Trip Details". Below it, the form contains the following fields: Driver Name (text input, pre-filled with "Test Driver"), Trip Mode (radio buttons for Start Trip and End Trip), Vehicle No (dropdown menu with "Select Vehicle No" as the placeholder), Date & Time (Date Time picker), Location (text input), Start Mileage (text input), and Fuel (text input). At the bottom, there are "Submit" and "Reset" buttons. A "Back" button is located at the bottom left of the window.

End Trip

- ✓ At the end of each trip, drivers should fill end trip details via below form.
- ✓ When driver select End trip radio button, system will automatically identify the trips which has not been completed (trips under IN PROGRESS status). This trip will be displayed under select trip drop down.
- ✓ Once driver select the correct trip, vehicle number will be displayed in the vehicle number field.
- ✓ Drivers should fill rest of the details and click on submit button.
- ✓ Upon click on submit button system will update records in the database under above unique trip ID and the status will be changed from 'IN PROGRESS' to 'SUCCESS'.



The screenshot shows a web application window titled "Trip Details". The breadcrumb navigation is "Home > Journey Module > Trip Details". The main heading is "Trip Details". The form contains the following fields and controls:

- Driver Name : Test Driver
- Trip Mode : ☐ Start Trip ☒ End Trip
- Select Trip : (dropdown arrow)
- Vehicle No :
- Date & Time : (Date Time picker)
- Location :
- End Mileage :
- Fuel :

At the bottom, there are "Submit" and "Reset" buttons. A "Back" button is located in the bottom left corner of the window.

Trip Summary Report

- ✓ This is the main report which can be used to refer all trip details for admins.
- ✓ Admins can search trip details either by driver name or vehicle number.
- ✓ Also this report can be downloaded as .xls format or .pdf format.

The screenshot shows a web-based application window titled "Report Module". Inside, there's a breadcrumb trail: "Home > Report Module > Trip Summary Report". Below this is the heading "Trip Summary Report". A search section contains fields for "Driver Name", "Date From", "Date To", and "Vehicle No" (with a dropdown arrow). There are "Search" and "Reset" buttons. Below the search area is a table titled "List of Trip Summary". The table has seven columns: "Trip ID", "Driver Name", "Vehicle No", "Start Date", "End Date", "Start Millage", and "End Millage". At the bottom of the page are three buttons: "Back", "Export XLS", and "Export PDF".

Report Module

Home > Report Module > Trip Summary Report

Trip Summary Report

Search

Driver Name Date From : Date To:

Vehicle No

List of Trip Summary

Trip ID	Driver Name	Vehicle No	Start Date	End Date	Start Millage	End Millage

Vehicle Maintenance

- ✓ This is the main report that administrators can use to Add, Edit, Delete and View all vehicle details.

The screenshot shows a web application window titled "Vehicle Maintenance". At the top, there is a breadcrumb trail: "Admin > Home > Vehicle Maintenance". Below this, there is an "Add +" button. The main content area features a table with the following data:

No	Vehicle Type	Vehicle No			
1	KDH	SP PF 2816	Edit	Delete	View More

Below the table, there are two buttons: "BACK" and "LOGOUT".

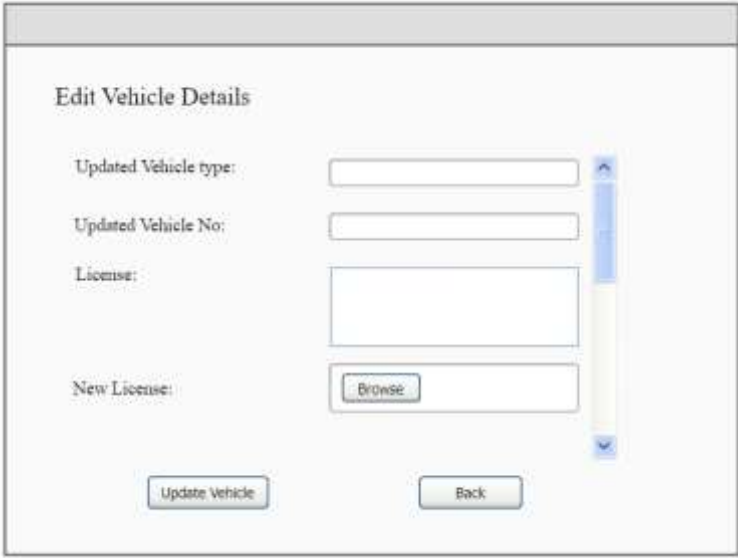
Add Vehicle Details

- ✓ When the company gets a vehicle, all the details of the vehicle should be entered.
- ✓ Also admin can add vehicle documents (ex: revenue license, etc.)

The screenshot shows a form titled "Add Vehicle". It contains three input fields with labels: "Vehicle type:", "Vehicle No:", and "License:". The "License:" field has a "Browse" button next to it. At the bottom of the form, there are two buttons: "Add Vehicle" and "Close".

Edit Vehicle Details

- ✓ Here the records like license of the vehicle are changed, so they can be entered a new.



Edit Vehicle Details

Updated Vehicle type:

Updated Vehicle No:

License:


New License:

Delete Vehicle Details

- ✓ If a vehicle is sold and the vehicle information is no longer required, it can be removed from this.

View Vehicle Details

- ✓ Since all the information of the vehicle is not given in the table, you have to press the 'view more' button to see all the information of each vehicle.



View Vehicle Details

Vehicle type:

Vehicle No:

License:

- This document is to support development phase 1 as a Software Requirements Specification (SRS) document & these features can be modified upon the requirement of client.