





Project Brief

- Ocean Terminal Services (OTS) is a web-based application designed for port equipment maintenance and repair, explicitly focusing on chassis maintenance services. The application automates billing procedures, maintenance, inspections, pre-inspections, data entry, reporting, and inventory management. It also includes a mobile app for mechanics to create work orders on-site and obtain approval from inspection officers. Additionally, a payroll management system is integrated to manage mechanic payments based on their work.

Key Challenges

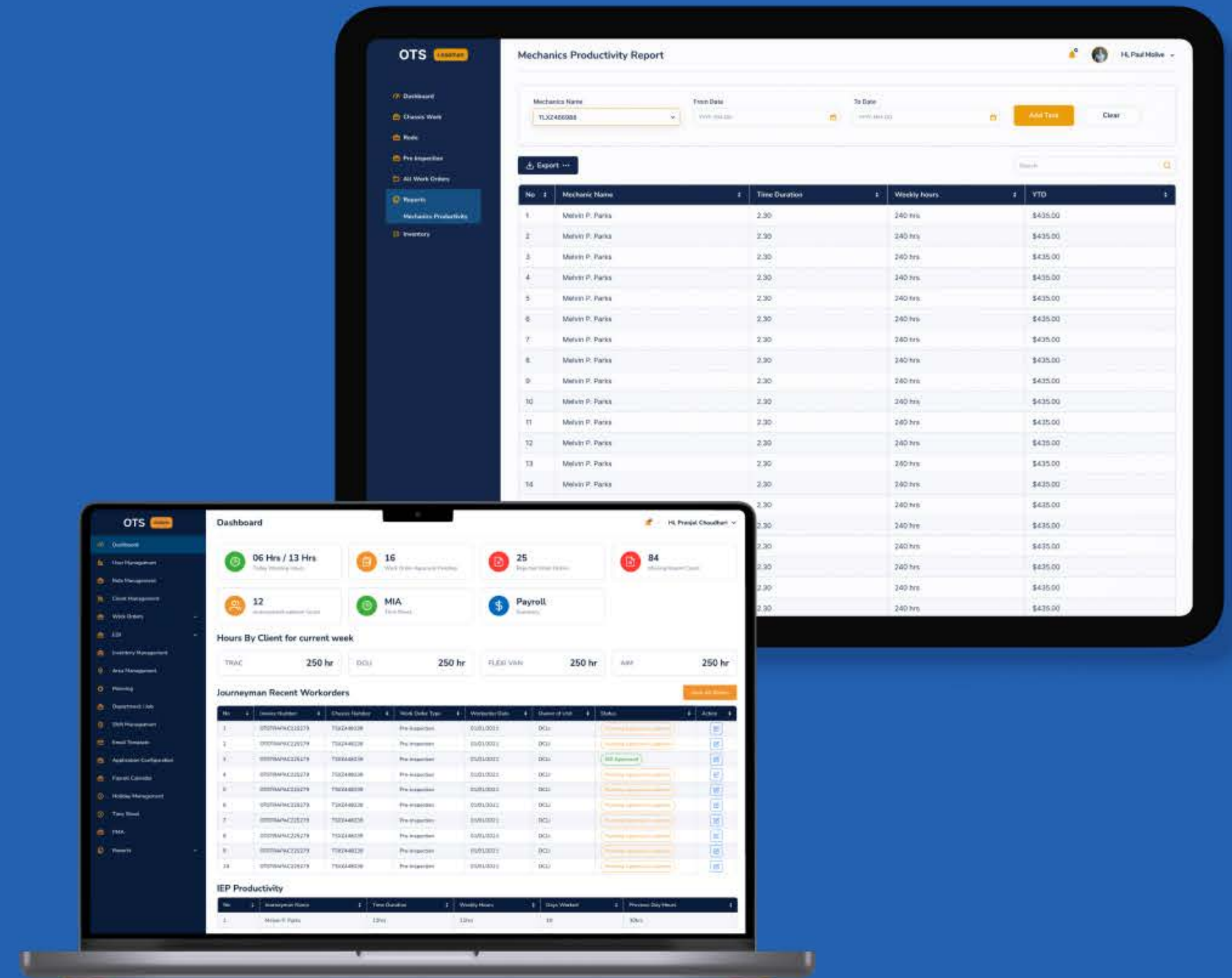
- **Work Order Details:** Efficiently managing diverse work order details encompassing various job types and parts.
- **Tariff Structure:** Handling the complexity of different tariff structures specific to different clients.
- **Work Order Approval:** Managing multi-level approval workflows to ensure efficient processing.
- **Billing Automation:** Developing a system to generate EDI files for billing purposes automatically.
- **Inventory Management:** Effectively tracking and managing parts inventory to support maintenance tasks.
- **Payroll Management:** Streamlining calculating and disbursing payments to mechanics and personnel.

Solution Delivered

- Implemented a comprehensive system for capturing and managing work orders, including various job types and parts.
- Created a unified screen for importing and managing client-specific tariff structures.
- Designed and implemented a multi-level approval flow to expedite work order processing.
- Automated the generation of EDI files for billing based on work order details, improving efficiency.
- Introduced a parts inventory management system to enhance inventory control and maintenance operations.
- Integrated a dedicated payroll management module for seamless calculation and disbursement of payments to mechanics and staff.


Highlighted Features

- Billing automation for different tariff structures.
- Comprehensive work order management.
- Multi-level work order approval workflow.
- Mobile app for on-site work order creation.
- Parts inventory management.
- Payroll management for mechanics.
- EDI file generation for billing.
- Detailed reporting and data entry.
- Integration with DCLI and CULines.
- AWS cloud hosting for scalability and reliability.




- Dashboard
- User Management
- Role Management
- Client Management
- Work Orders
- EDI
- Inventory Management
- Area Management
- Manning
- Department / Job
- Shift Management
- Email Template
- Application Configuration
- Payroll Calendar
- Holiday Management
- Time Sheet
- PMA
- Reports


Dashboard




06 Hrs / 13 Hrs
Today Working Hours




16
Work Order Approval Pending




25
Rejected Work Orders




84
Missing Report Count



12
Journeyman/Leadman Count



MIA
Time Sheet



Payroll
Summary

Hours By Client for current week

TRAC **250 hr**

DCLI **250 hr**

FLEXI VAN **250 hr**

AIM **250 hr**

Journeyman Recent Workorders

[View All Orders](#)

No	Invoice Number	Chassis Number	Work Order Type	Workorder Date	Owner of Unit	Status	Action
1	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
2	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
3	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	EDI Approved	
4	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
5	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
6	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
7	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
8	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
9	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	
10	OTSTRAPAC225279	TSXZ448239	Pre-inspection	01/01/2021	DCLI	Pending Approval Leadman	

IEP Productivity

No	Journeyman Name	Time Duration	Weekly Hours	Days Worked	Previous Day Hours
1	Melvin P. Parks	12hrs	12hrs	10	30hrs

OTS Leadman
Hi, Paul Molve

- Dashboard
- Chassis Work
- Rodo
- Pre Inspection
- All Work Orders
- Reports
- Inventory

Chassis Work

Chassis Number

Licence Plate Number

Invoice Number

Work Order Date

Owner Of Unit

Inspection Types
 BIT FMCSA It is Due?
BIT Due

Upload Inspection Form

Help Note Here

Remarks

Job Details

Repair Category	Task Description	Location	Damaged Code	Qty	Action
OTSTRAPAC225278	Gladhand Seals, Replace	CF3N - Frame Forward Left Half	CU- Cut	<input type="text" value="05"/>	<input type="button" value="edit"/> <input type="button" value="delete"/>
OTSTRAPAC225278	Gladhand Seals, Replace	CF3N - Frame Forward Left Half	CU- Cut	<input type="text" value="05"/>	<input type="button" value="edit"/> <input type="button" value="delete"/>
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Add New Job

Select Categories

Select Task

OTS Leadman
Hi, Paul Molve

- Dashboard
- Rodo
- Chassis Work
- Pre Inspection
- All Work Orders
- Reports
- Inventory

Rodo Work

Chassis Number

Licence Plate Number

Invoice Number

Work Order Date

Owner Of Unit

Inspection Types
 BIT FMCSA It is Due?
BIT Due

Upload Inspection Form

Help Note Here

Tire Details

Tire Size?

Radial Tire

Any Air Tire?

Task Description	Tire Type	Damaged Code
RFO-Right Front Outside	New Repair Flat Repair/ Used	Select Damage Code
RFI-Right Front Inside	New Repair Flat Repair/ Used	Select Damage Code
LFO-Left Front Outside	New Repair Flat Repair/ Used	Select Damage Code
LFI-Left Front Inside	New Repair Flat Repair/ Used	Select Damage Code
RRO-Right Rear Outside	New Repair Flat Repair/ Used	Select Damage Code
RRI-Right Rear Inside	New Repair Flat Repair/ Used	Select Damage Code
LRO-Left Rear Outside	New Repair Flat Repair/ Used	Select Damage Code
LRI-Left Rear Inside	New Repair Flat Repair/ Used	Select Damage Code

Task Details

Task Description	QTY	Select Part	Damaged Code
Lights and Mud Flaps			
Replace Tail Light - LR (4*) - 1 Max	- 1 +	malesuada fames <input type="text" value=""/> orci nulla <input type="text" value=""/> morbi tristique <input type="text" value=""/>	Select Damage Code
Replace Tail Light - LR (4*) - 1 Max	- 1 +	orci nulla <input type="text" value=""/> morbi tristique <input type="text" value=""/>	Select Damage Code
Replace Tail Light - LR (4*) - 1 Max	- 1 +	orci nulla <input type="text" value=""/> malesuada fames <input type="text" value=""/> morbi tristique <input type="text" value=""/>	Select Damage Code
Replace Tail Light - LR (4*) - 1 Max	- 1 +	morbi tristique <input type="text" value=""/> malesuada fames <input type="text" value=""/> orci nulla <input type="text" value=""/>	Select Damage Code

OTS Leadman
Hi, Paul Molve

Pre Inspection

Chassis Number

Licence Plate Number

Invoice Number

Work Order Date

Owner Of Unit

Remarks

Task Details

Task Description	QTY	Select Part	Damaged Code
Lights and Mud Flaps			
Replace 1" Marker/ID Light			
2-inch Lights			
2.5 inch Lights			
Hardware and Accessories			
License Plate Lights			
7-Way Plugs			
Mud Flaps			

Remarks

Add Task
Clear

OTS Leadman
Hi, Paul Molve

Mechanics Productivity Report

Mechanics Name

From Date

To Date

Add Task
Clear

Export Search

No	Mechanic Name	Time Duration	Weekly hours	YTD
1	Melvin P. Parks	2.30	240 hrs	\$435.00
2	Melvin P. Parks	2.30	240 hrs	\$435.00
3	Melvin P. Parks	2.30	240 hrs	\$435.00
4	Melvin P. Parks	2.30	240 hrs	\$435.00
5	Melvin P. Parks	2.30	240 hrs	\$435.00
6	Melvin P. Parks	2.30	240 hrs	\$435.00
7	Melvin P. Parks	2.30	240 hrs	\$435.00
8	Melvin P. Parks	2.30	240 hrs	\$435.00
9	Melvin P. Parks	2.30	240 hrs	\$435.00
10	Melvin P. Parks	2.30	240 hrs	\$435.00
11	Melvin P. Parks	2.30	240 hrs	\$435.00
12	Melvin P. Parks	2.30	240 hrs	\$435.00
13	Melvin P. Parks	2.30	240 hrs	\$435.00
14	Melvin P. Parks	2.30	240 hrs	\$435.00
15	Melvin P. Parks	2.30	240 hrs	\$435.00
16	Melvin P. Parks	2.30	240 hrs	\$435.00
17	Melvin P. Parks	2.30	240 hrs	\$435.00
18	Melvin P. Parks	2.30	240 hrs	\$435.00
19	Melvin P. Parks	2.30	240 hrs	\$435.00
20	Melvin P. Parks	2.30	240 hrs	\$435.00



Technology Overview

- **Web Framework**
.NET Core
- **Programming Language**
C#
- **Design Tool**
Figma
- **UI Framework**
Bootstrap
- **Database**
MySQL
- **Industry Domain**
Shipping & Logistics

[View Prototype](#)

