MICHIGAN STATE UNIVERSITY Beta Presentation Dealer Experience Dashboard

The Capstone Experience

Team Ford

Aparna Anand Phillip DesRochers Abel Diaz-Valdez Fangjun Huang Andrew Naumoff Aditya Venkatakrishna

Department of Computer Science and Engineering Michigan State University

Spring 2024



From Students... ...to Professionals

Project Overview

- Internalize and Analyze Dealership Data
 - Ford employees and Dealerships with our software have a way to look at their own metrics and data for their relevant needs
- Data Visualization
- Concise and Convenient Display

 Users can specify which tables want to be seen and shared.

System Architecture



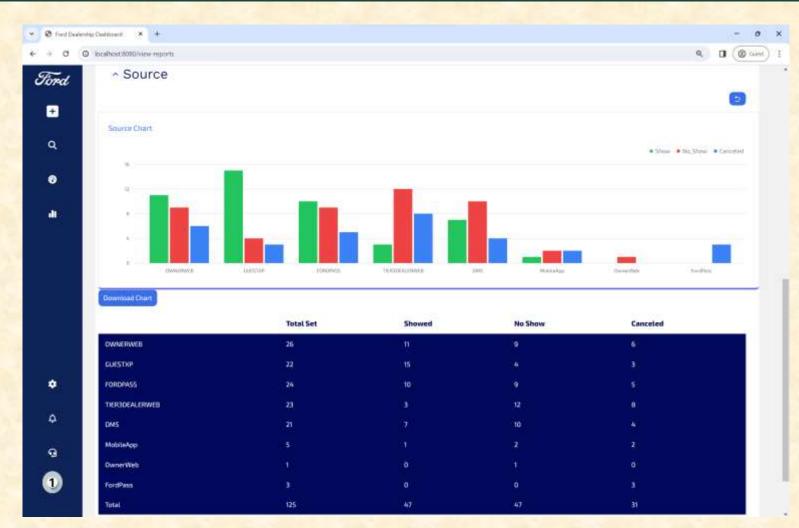
View Reports Page

÷ c	Iocalhost:5080/view reports			trico 🕲 🖬
Tord	Manage and View D	ata		Logo
+	View Reports	Schedule Report	Manage Reports	
Q	-			
0	Dealer Performance Dashboard Declairer Deb shawn millerin approximite hily ware for all and from apporterments managed in your DWs are	gent in GOR		
3445	Assettan			
	Reservation Metrics			
	Contraction and a second second			
	🔿 Yestanday 🔿 Last 7 days 🔿) Month to Date 🕢 Vear to Date 🔿 Cor	n e Inen	
	🔿 Yestanday 🔿 Last 7 days 🔿) Month to Date 🔹 Year to Date 🔿 Cu	han	
) Month to Date 🔹 Year to Date 🔿 Co	lines	
	*) Month to Date 🔹 Year to Date 🔿 Cu	Anna Anna Anna Anna Anna Anna Anna Anna	
) Month to Date 🔹 Year to Date 🔿 Cu	Anna Anna Anna Anna Anna Anna Anna Anna	
	å Downtoad Report) Month to Date 💿 Year to Date 🔿 Cu	10 mm	
	& Downtoad Report Tiste Vew	Month to Date 💿 Year to Date 🕥 Cu	10 mm	
	A Download Report Table Vew All	Month to Date 🔹 Year to Date 🔿 Cu	A man	v
	A Download Report Teste Vew All	Month to Date • Year to Date O Cu	A Marin	×
•	A Download Report Table Vew All Dealer Performance Overview Employee Performance Details	Month to Date • Year to Date O Cu	A Anna	
٥	Download Report Teste Vew All Dealer Performance Overview Employee Performance Details Dealer Performance Details Dealer Performance Details	Month to Date • Year to Date O Cu	A Marina Ma	
	Download Report Table Vew All Dealer Performance Overview Employee Performance Details Dealer Perfo	Month to Date • Year to Date O Cu		~
•	A Download Report Table Vew All Dealer Performance Overview Employee Performance Details Dealer Performance Details Department Assigned Service Advisor Source	Month to Date • Year to Date • Co		~
	Download Report Table Vew All Dealer Performance Overview Employee Performance Details Dealer Perfo	Month to Date • Year to Date Co		~
¢	Download Report Table Vew All Reder Performance Overview Employee Performance Details Devier Performance Details Assigned Service Advisor Surce Appointment Booking Conversion	Month to Date • Year to Date Co		~
	A Download Report Table Vew All Dealer Performance Overview Employee Performance Details Dealer Performance Details Department Assigned Service Advisor Source	Month to Date • Year to Date Co		~
4 0	Download Report Table Vew All Reder Performance Overview Employee Performance Details Devier Performance Details Assigned Service Advisor Surce Appointment Booking Conversion	Month to Date • Year to Date Co		
¢	Download Report Table Vew All Reder Performance Overview Employee Performance Details Devier Performance Details Assigned Service Advisor Surce Appointment Booking Conversion			

Schedule Reports Page

View Reports Schedule Report Manage Reports View Reports Schedule Report Manage Reports Stary up to date with the metrics you want delivered to your inbox. Manage Reports Mathemate Repipients? Manage Report Mathemate Repipients? Manage Report Mathemate Repipients? Manage Report Mathemate Repipients? Manage Repipients? Mathemate Repipients? Manage Report Mathemate Repipients? Manage Repipients? Mathemate Report Type (Select all that apply): Manage Report Reports Delivers? Delive Report Reports Delivers? Delive Report Reports? Mathemate Report Reports? Deliver Report Reports? Mathemate Report Reports? Deliver Mathemate? Mathemate Report Reports? Deliver Report Reports? Mathemate Report Reports? Deliver Report Reports	ford Manage a	nd View Data	í		Logo
Constrained Stary up to date with the metrics you want delivered to your inbox. Add Remove Recipient(d) Add Remove Recipient(d) Add Remove Recipient(d) Mathematics Recipient(d) Prequency: Wandy	+	manage your team			
 Stay up to date with the metrics you want delivered to your inbox. Mathematics Mat			Schedule Report	Manage Reports	
 Add/filements/Recipitents/ Add/filements/Recipitents/ Resport Type (Select all that apply): Resorvation Metrics Desker Performance Dearliss Department Applitude Select all thatser Source Applitude Torenovement Repair Order Metrics Peckup and Delivery Metrics 	Q				
 Add Receive Redulends Add Receiver Redulends Add Receiver Redulends Add Receiver Redulends Tenquency: Tenquency: Wenkly Implay Experiment Redulends Report Type (Select all that apply): Report Type (Select all that apply): Reservation Metrics Dealer Performance Details	Stay up to date with t	se metrics you want delivered to	your inbox.		
Add Respired Frequency/ Wrekly Report Type (Select all that apply): Reservation Metrics Dester Performance Details Dester Performance Details Dester Netwick Report Type (Select all that apply): Report Type (Select all that apply): Beservation Metrics Dester Performance Details Dester Performance Details Desterine Repoint Order Metrics Source Repair Order Metrics Pickup and Delivery Metrics	0				
 Add Hecpenit Frequency; Weekly Report Type (Select all that apply): Reservation Metrics Deaker Performance Details Department Assigned Service Advisor Source Applit Order Metrics Pickup and Delivery Metrics 	Add/Remove Recipient(s)				
Wwekiy * Report Type (Select all that apply):	Add Recipient				
 Report Type (Select all that apply): Reservation Metrics Dealer Performance Details Department Assigned Service Advisor Source Appointment Booking Conversion Repair Order Metrics Pickup and Delivery Metrics 	Employee				
 Construction Metrics Dester Performance Overview Employee Performance Details Department Assigned Service Advisor Source Appointment Booking Conversion Repair Order Metrics Repair Order Metrics Destructer Metrics Destruction Metrics 					10
 Reservation Metrics Desker Performance Overview Employee Performance Octails Department Assigned Service Advisor Source Appointment Booking Conversion Repair Order Metrics Repair Order Metrics Repair Order Overview Pickup and Delivery Metrics 					
 Reservation Metrics Dealer Performance Diverview Employee Performance Details Department Assigned Service Advisor Source Appointment Booking Conversion Repair Order Metrics Repair Order Overview Pickup and Delivery Metrics 					
 Reservation Metrics Dealer Performance Overview Employee Performance Details Department Assigned Service Advisor Source Appointment Booking Conversion Repair Order Metrics Repair Order Metrics Pickup and Delivery Metrics 	Report Type (Select al	that apply):			
 Dealer Performance Overview Employee Performance Details Department Assigned Service Athvisor Source Appointment Booking Conversion Repair Order Metrics Repair Order Metrics Pickup and Delivery Metrics 	004010000000000000000000000000000000000				
Department Assigned Service Athisor Source Appointment Booking Conversion Repair Order Metrics Repair Order Metrics Pickup and Delivery Metrics	and the second se				
Assigned Service Advisor Source Aspointment Booking Conversion Repair Order Metrics Repair Order Overview Pickup and Delivery Metrics		rmance Oetails			
Appointment Booking Conversion Repair Order Metrics Repair Order Overview Pickup and Delivery Metrics	Assigned Servi	æ Advisor			
Repair Order Metrics Repair Order Overview Pickup and Delivery Metrics		ooking Conversion			
Pickup and Delivery Metrics	Repair Order				
	Pickup and D	livery Metrics			
	0				

Source Chart and Table



The Capstone Experience

Team Ford Beta Presentation

Summary Report

• 0	incalhost.8080/view-reports								R 0 (@ Gant)
ord •	Dealer Performance D Inclorer Statistics of the State	renty fully managed in LAN							
and a	Sorrowy Report								-
۹	C Vectority C Las	t7days 🔿 Month	tuDate 🔍 W	arto Data 🔿 Cu	store				
0		ando 195 milita	1999) (1999) (M	nadanti X da					
di i	A Download Report March Summary Reservations								
	Dester Performance Overview 3196 Canceled	23% No Show		47% Bow	Tatal Appeintment Brookd 62 Tatal Appeintments	kain (32 Cestorier	6 2045	15 6465768
	Showed Appointments - Comparison				Tatal Appointment Socked	l - Comparison			
	479in	43960		40%	621 Your Dealership		53:		55
		1							
	Harrison Harrison	Zirw Average -1		Bagist Average	-1		Three fiverage -1		Hagen Average
	foar Daalandrig -1				-1	Comparison			
	their Dealership					- Comparison			
	tser Daatendrig -1 No Staves / Apparationals - Campanism 2,39to Nav Daatendrig	-1 33%+ Zoro Average		-1 35%r Hagen formage	-1 Tetal Appointment via DRF 15	• Carquarisan	-1 Br Dreiweinge		-1 9 . Reput Average
	tsur Daatenship -1 No Soweel Appareteristis - Companiese 23900 Nov Daatenship -1	-1 33%+		-1 35%+	-1 Total Appendition of CAP 15:: Visio Dealer Dra -1		-1 8-		-1 9-
¢	tser Daatentre -1 No Shaveel Apparetments - Companier 239to New Daatentre -1 Concested Appaletments - Companies	-1 33%5+ Zona Average -1		-1 35% Hugen free age -1	-1 Batal Appentment via 009 15 y Visar Destandris -3 Tatal Appentment via DM		-1 Ber Directionage -1		-1 9 - Ragna Avenage -1
•	tsur Daatenship -1 No Soweel Appareteristis - Companiese 23900 Nov Daatenship -1	-1 33%+ Zoro Average		-1 35%r Hagen formage	-1 Total Appendition of CAP 15:: Visio Dealer Dra -1		-1 Br Drei Weitige -1		-1 9 . Reput Average
	tsur Daatandra -1 No Shaveel Apparetments - Companison 239tic Non DaatenShip -1 Corecaled Appaletments - Companison 319tics	-1 33%60 2000 Montage -1 24%60		-1 35% Hypothemap -1 25%	-1 Testal Appendition of DM 15 yr Vear Destar the -3 Total Appendition of ADM By:		-1 Bir Directioning -1 16y		-1 9 Nagan Awange -1 12-1
	Hair Dataming -1 No Stowed Appointments - Companism 2,39tics New Doolership -1 Consult Appointments - Companism 319fop Hair Doolership -1 Prior Menth (Netriceny) Totals	-1 33%5+ Zooo Average -1 24/%5= Zoon Average -3		-1 35%5 Higher Annage -1 Niger Andropy	-1 Total Appointment via DOI 15 Viso Dostantina -1 Total Appointment via DOM Bio Viso Dostanting. -1 Price Mandtr (Petersary) Tot	5 - Comparison	-1 Be Dire Weitige -1 149 Dire Weitige -1		-1 9- Ngos Average -1 12- Ngos Average
¢	tear Destanting -1 No Stownel Appointments - Companian 239to New Destersive -1 Companian 319to New Desterming -1 Prior Meetin (Victoriany) Tablis 3896	-1 33%5* Zorov Average -1 24%6* Zorov Average -3 36%		-1 35%: Nagron free ago -1 25%: Nagron free ago 26%:	-1 Total Appointment via DOI 15 Viso Douter anno -1 Total Appointment via DOM Bir Viso Douter anno -1 Nice Meneter (Hetersary) Tel 39	5 - Comparison	-1 Br Dire Martige -1 May Mare Martige -1 25	10	-1 9- Mayor Average -1 12- May to Formage -1
φ	Hair Dataming -1 No Stowed Appointments - Companism 2,39tics New Doolership -1 Consult Appointments - Companism 319fop Hair Doolership -1 Prior Menth (Netriceny) Totals	-1 33%5+ Zooo Average -1 24/%5= Zoon Average -3		-1 35%: Nagron free ago -1 25%: Nagron free ago 26%:	-1 Total Appointment via DOI 15 Viso Dostantina -1 Total Appointment via DOM Bio Viso Dostanting. -1 Price Mandtr (Petersary) Tot	5 - Comparison	-1 Be Dire Weitige -1 149 Dire Weitige -1	10 1995	-1 9+ August foreinge -1 12+ August foreinge -1
4 9	tsur Daatening -1 No Streevel Appartments - Companies Nave Daatening -1 Concested Appalationets - Companies Street -1 Price Menth (Mainumy) Tatala 3896 Street	-1 33%5* Zorov Average -1 24%6* Zorov Average -3 36%		-1 35%: Nagron free ago -1 25%: Nagron free ago 26%:	-1 Total Appointment via DOI 15 Viso Douter anno -1 Total Appointment via DOM Bir Viso Douter anno -1 Nice Meneter (Hetersary) Tel 39	s - Companison	-1 Br Dire Martige -1 May Mare Martige -1 25		-1 9- Mayor Average -1 12- May to Formage -1
	tear Destanting -1 No Stownell Appointments - Companison 23950 New Destanting -1 Companison 31950 New Destanting -1 Prior Meetin (Victoriany) Tablis 3896	-1 33%5* Zorov Average -1 24%6* Zorov Average -3 36%	0%	-1 35%: Nagron free ago -1 25%: Nagron free ago 26%:	-1 Total Appointment via DOI 15 Viso Douter and -1 Total Appointment via DOM Bir Viso Douter and -1 New Meeter (Hetersary) Tel 39	5 - Comparison	-1 Br Dire Martige -1 May Mare Martige -1 25		-1 9- Mayor Average -1 12- May to Formage -1

The Capstone Experience

Team Ford Beta Presentation

What's left to do?

- Features
- Stretch Goals
 - Enhance graphs
 - Date display on Manage report
 - Confirmation Messages
 - Cache the data
- Other Tasks
 - Debugging
 - Touch up fonts and look of UI
 - Finish Readme

Questions?

