

Problem Statement

- Mechanical Engineering must track usage of rented equipment
- Current app is buggy, unreliable, and android-only
- Must manually download usage logs
- Must manually process logs and produce reports
- Usage tracking is needed for proper billing

Our Solution

- Design user friendly web application
- Automatically collect usage records
- Automatically process records to generate reports
- Store user and tool information to reduce user input

Key Deliverables

- Universally accessible web application
- Microsoft SQL Database
- Email service
- Documentation for maintenance
- Connection with hardware

Tool Selection

Name	Rate	Units	Current Status	
MTS Criterion	55.00	hourly	In Use	Select
3D Printer	5.50	\$/gram	In Use	Select
MTS Servo	27.50	hourly	Available	Select
DMA-DSC	32.00	hourly	Available	Select
Izod	42.50	EFG	Available	Select
3D Printer	0.05	Grams	Available	Select

Logout

User View

Checking out: 3D Printer



Status: Not checked out

Hourly rate: \$0.05

Reserve Device

Return Device

Back

Generated Report

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Grants														
2	ID	Start Date	Start Time	End Date	End Time	User	PO	Project	Hours	Hourly R.	Total Cost	Extra 1	Extra 2	Extra 3	
3	1	2023-04-17	14:11:40	2023-04-17	14:11:45	User Te	ME15-1341JAN	Big Project In	0.5	\$55.00	\$27.50	13.00	sfda	asdf	
4	2	2023-04-17	14:18:21	2023-04-17	14:18:27	User Te	ME23-1DEC	Johsnon Proj	1.5	\$32.00	\$48.00	-1.00		Test Input	
5	3	2023-04-17	18:44:38	2023-04-17	18:48:31	User Te	ME23-1341APR	Important ID	2.58	\$32.00	\$82.56	-1.00		Cool Info	
6	4	2023-04-17	18:45:04	2023-04-17	18:48:12	Md Zahi	ME15-5123SEPT	Temporary Ir	1.75	\$42.50	\$74.38	-1.00			
7	5	2023-04-17	18:50:09	2023-04-17	18:51:07	User Te	ME23-1524APR	Formatting P	1.25	\$32.00	\$40.00	-1.00			
8	6	2023-04-17	18:50:11	2023-04-17	18:50:17	User Te	ME23-1524APR	Formatting P	2.17	\$32.00	\$69.44	-1.00		Power	

Admin View

Reports

Manage Accounts

Usage

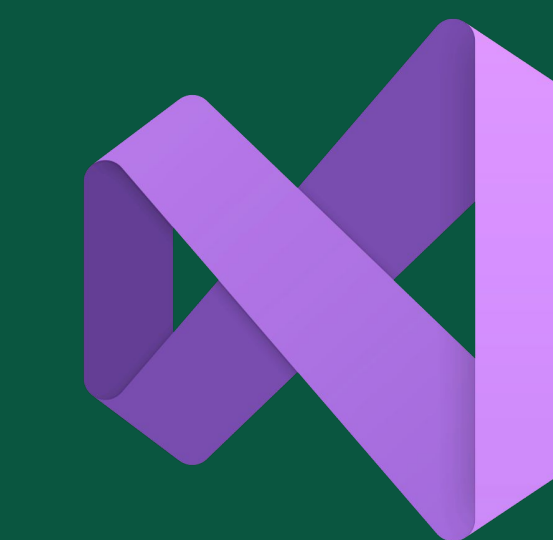
Manage Tools

Manage Departments

Manage Advisors

Log Out

Technologies



NET foundation



HostGator

mailjet

Check it out yourself!

<https://www.ndsutoolbox.com>

