

AUTOMATED PRICE BOOK GENERATOR

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Product Demo



Introduction

Tait Communications needed a way to automatically create a products price book as everything was being done manually. So the solution was to come up with a system that can automatically pull live data from a database and automatically generate an Excel price book with all of Tait's products. As well that, a product management user interface had to be created to manage the product data in the database

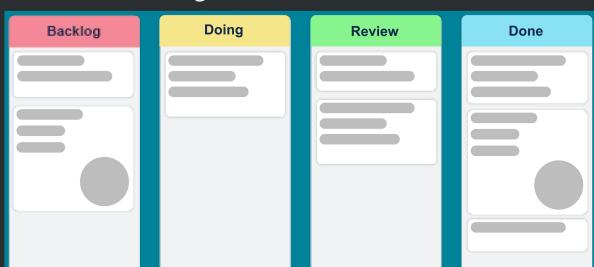
Goals

- >Create an automatic Excel price book
- Pull live pricing data from SAP
- Create a front end GUI to control the database

Methodology

For this project, we utilised the Kanban method to enhance our workflow and task management. By breaking down larger tasks into more manageable segments, Kanban enabled us to monitor progress effectively and address issues promptly. It facilitated prioritisation, ensuring that we focused on current tasks (Doing) and avoided multitasking, which improved our overall productivity and streamlined the project's execution (Falco, 2023).

Figure 1
Kanban Board Diagram



Outcomes

The automatically generated price book has a main menu created based on the products in the file. When you navigate into one of the product categories, it then displays the product code, description, pricing and any extra information

Figure 2
Excel Price Book Main Menu

Tait TAM USD Price List



Welcome to the Tait Product Price List. Prices are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. Please contact your Tait representative for firm quotations and to confirm configurations or designs that may impact pricing.

List prices are in USD Excluding GST

Price List Menu				
DMR - Base Stations	DMR - Mobiles	DMR - Portables	DMR - Systems	P25 - Base Stations
TB7300	Accessories	TP9361		TB7300
TB9300	TM9300	TP9900		TB8400
	TM9700 Multiband	TP9300		TB9100
	TM2210	TP9500		TBX400 TB7300 Multi-Mode
	TM2000	TP3000		TB9300
		TP2000		
		TP9700		
		Portable Accessories		
P25 - Mobiles	P25 - Portables	P25 - Systems	Tait Axiom - Mobiles	Tait Axiom - Wearables
TM9800	TP9100	Conventional	TMX550	TWX550
TM9400	TP9400	TN9400	Mobile Accessories	
TM9100	TP9600			
Accessories	TP9800			
Mobile Accessories	TP9900			
	Portable Accessories			
	TP9461			

On the product management page, you could edit product data, assign categories to products, and change the order products appear in the price book.

Figure 3
Database Data Management

Category 1	Category 2	Category 3	Category 4	Price Book Order
Search Category	Search Category	Search Category	Search Category	
P25	Portables	TP9600	Programming Kit/Cable	9 ✓
P25	Portables	TP9400	Programming Kit/Cable	9
P25	Portables	TP9800	Programming Kit/Cable	9
DMR	Portables	Portable Accessories	Programming Kit/Cable	9
DMR	Portables	TP3000	Programming Kit/Cable	9
DMR	Portables	TP9500	Programming Kit/Cable	9
P25	Portables	Portable Accessories	Programming Kit/Cable	9
DMR	Portables	TP9500	Carry Case/Clips	8
DMR	Portables	TP9700	Carry Case/Clips	8

Learnings

- Connecting Front End and Back End Systems
- Use of new tools - Jira, GitLab, pgAdmin
- Creating JavaScript & Python APIs
- Teamwork, collaboration, communication, problem-solving skills

Tools



Jira



GitLab



VS Code



pgAdmin



React



Prime React

Acknowledgements

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Academic Supervisor: Dr Christopher Bartlett (christopher.bartlett@ara.ac.nz)

Industry Supervisor: Michael Hann (michael.hann@taitcommunications.com)

References

Falco, J. (2023). Representation of a kanban board, with four columns showing stages of a workflow. Retrieved from [wikimedia.org](https://commons.wikimedia.org/w/index.php?curid=132117320):

<https://commons.wikimedia.org/w/index.php?curid=132117320>