### anomify

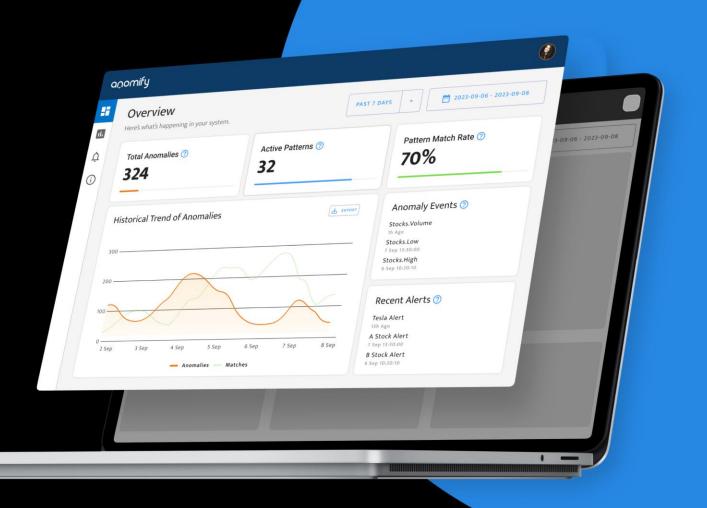
## OPTIMISING UX FOR ANOMALY DETECTION

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### **ABSTRACT**

Anomify AI, an anomaly detection platform, leverages machine learning techniques to aid companies in identifying system outliers. However, many users felt confused and challenged during the anomaly detection process and dropped out of use. To reveal the problem of low usage rate, a novel user interface designs with reworked user flows and uniform design style were created to solve the existing user flow and user interfaces problems found from user researches. Afterwards, an online usability test showed the UIs with consistent structure enhanced the usability.



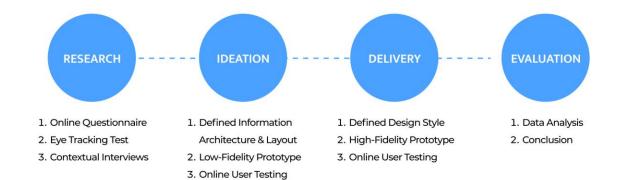
### **BACKGROUND & INTRODUCTION**

Anomify faces an severe issue of low usage rate, up to 95% of users did not engage with the platform after registration. This project aims to address these challenges by focusing on improving the usability of the anomaly detection process to elevate the user experience, relieve information fatigue, increase user engagement, and demonstrate the value of Anomify to its users.

### **RESEARCH QUESTION**

How can we enhance the UX and reduce the information fatigue of Anomaly Detection?

### **RESEARCH METHODOLOGY**

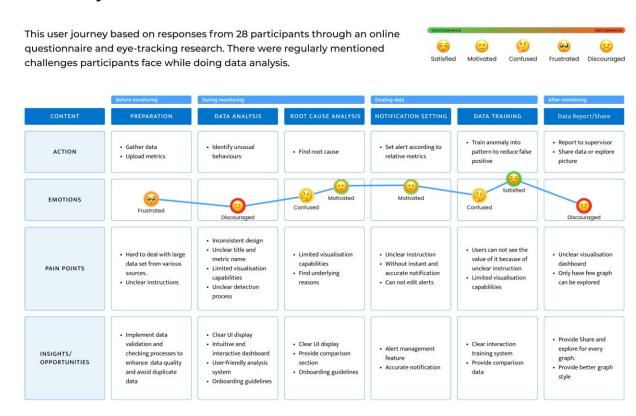


### **PERSONAS**



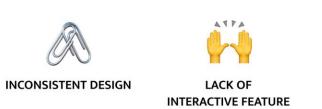


### **USER JOURNEY**



### CHALLENGES & NEEDS

Based on responses from 28 participants through the online questionnaire.



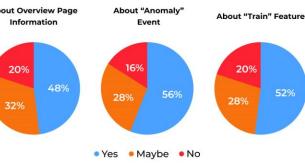






**Find Root Causes** 

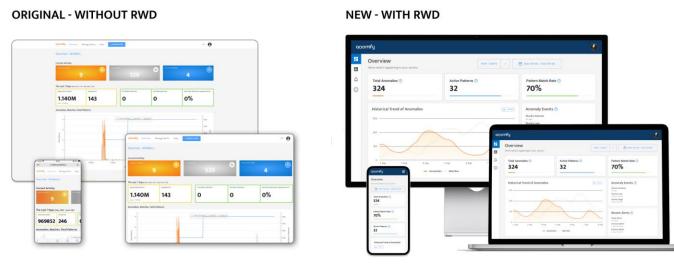


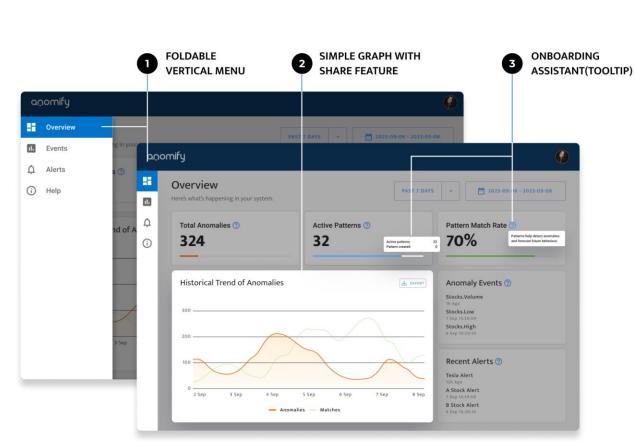




### **DESIGN DELIVERY**

The new UIs defined a design style that includes a flexible grid to ensure design consistency and align with the Web Content Accessibility Guidelines (WCAG) and responsive web design(RWD). New features include **1** "Foldable vertical menu", **2** "Simple graph with share feature", and **3** "Onboarding assistant".





### **DESIGN ITERATION**

Prototype A adopted only the list-style display with the accordion menu. Prototype B introduced a grid-style display, and the detail page was displayed in multiple sections and a tab feature that toggles between the "related events" and "root causes" sections.

### A/B TESTING









### **TASKS & USABILITY SCORES**

Task\Prototype	Α	В
1: Find anomalies	73	98
2: Analyse anomalous events	57	65
3: Find root causes	66	40
4: Train anomaly	83	83
5: Create an alert	87	68
	73	72

### RESULT

The usability scores both A and B exceeded 70 scores above average System Usability Scale (SUS) and all participants successfully completed the tasks without dropping out. The AVG duration time was less than 42s on each task, and it showed superior progress in reaction time.

### PROTOTYPE A

Events Page
Investigate Metric

Find Root Causes

Occurrily

Events

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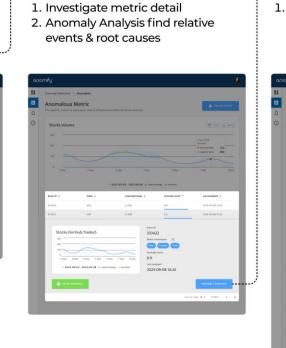
Events

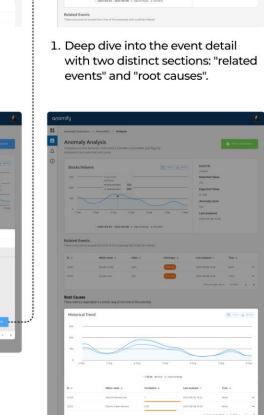
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1. Check latest unusual event by

2. Investigate anomalous metric

clicking Accordion menu

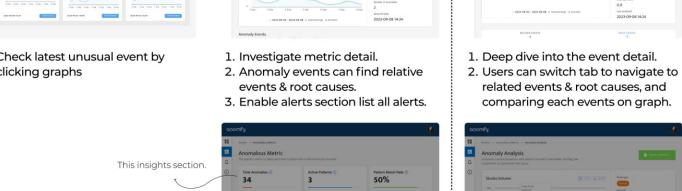


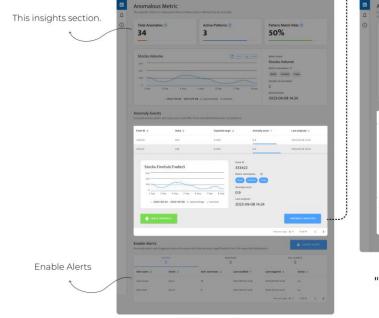


# Devents | Sevents | Seven

### Events Page Investigate Metric overrify to which per supplies and offer from anomaly foliables or professes. The supplies anomaly foliables or profe

PROTOTYPE B







### **FEEDBACK**



"List format was intuitive and easier to follow!"

"The table of rows would benefit from investigating a large number of anomalies."

**TEST B 72** 

"The visualisation of graphs is pleased eyes!"

"I found multiple-section structure easier to navigate and understand."

### CONCLUSION

The result showed an improvement in product usability such as reducing reaction time, exhibiting confident interactions and notably positive responses. However, the results did not reveal a significant user preference between the two prototypes, 4 votes for A and 6 votes for B. For future improvement, combining both advantages to do the next iteration would be beneficial.

Multiple section structure