Robot's Maintenance Application Design

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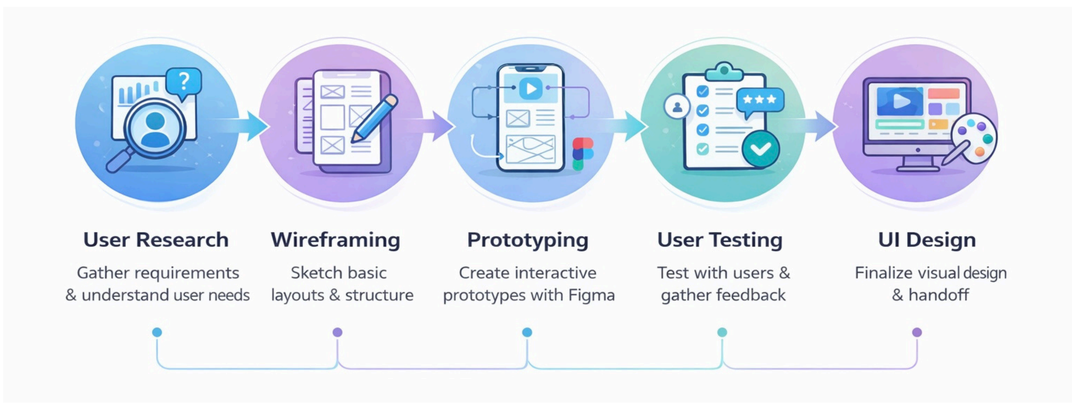
Abstract

This project presents the design of a Robot Maintenance Application developed for Xenoptics Company Limited. The system aims to improve maintenance management by enabling real-time monitoring, reducing redundant record-keeping, and providing easier access to maintenance data. The application was designed under the Design System concept using Figma to ensure consistency and usability across the system. The focus of this project is on enhancing user experience (UX) and improving operational efficiency within the organization.

Introduction

This cooperative education project was conducted at Xenoptics Company Limited with the objective of designing and improving a Maintenance System to enhance operational efficiency. The role undertaken in this project was UX/UI Designer, responsible for designing the user interface and improving the overall user experience.
The development process focused on requirement analysis, system structure design, and prototype creation using Figma to ensure the system effectively supports real-world organizational operations.

Design Process



Technology

Results

A structured UI prototype for the Maintenance System was successfully designed and developed based on user requirement analysis and workflow structuring. The system enhances process clarity, reduces operational complexity, and minimizes data redundancy. Additionally, a comprehensive Design System was established to ensure visual consistency, standardization, and scalability. The outcome supports practical implementation and future system expansion within the organization.

Conclusion

This project demonstrates that a user-centered UI design approach can significantly improve the efficiency and usability of a Maintenance System. By integrating structured workflows and standardized design principles, the system achieves greater clarity, accuracy, and operational effectiveness.
The developed prototype and Design System provide a strong foundation for long-term system development, ensuring flexibility, sustainability, and readiness for real-world application.

References

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