iLand Web Application

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1 ABSTRACT

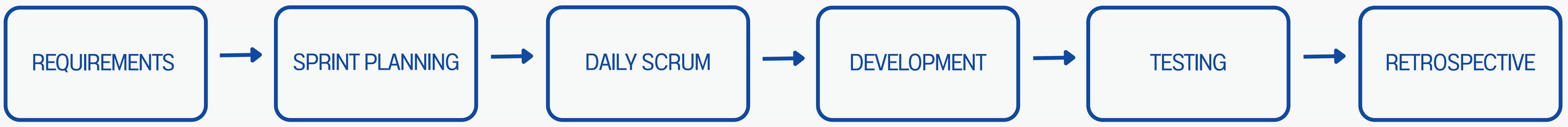
T.C.C. Technology Co., Ltd. requires a structured and secure system to manage land-related information within the organization. To fulfill this need, the iLand Web Application has been developed as an integrated web-based platform for managing land, buildings, documents, and tax data in a centralized environment.

During the cooperative education program, the trainee served as a Frontend Developer and was responsible for designing and implementing the web-based user interface using React and TypeScript. The frontend was integrated with backend services through RESTful APIs to ensure accurate data processing and seamless system functionality. The system improves usability, supports secure role-based access control, and enhances overall efficiency in data management.

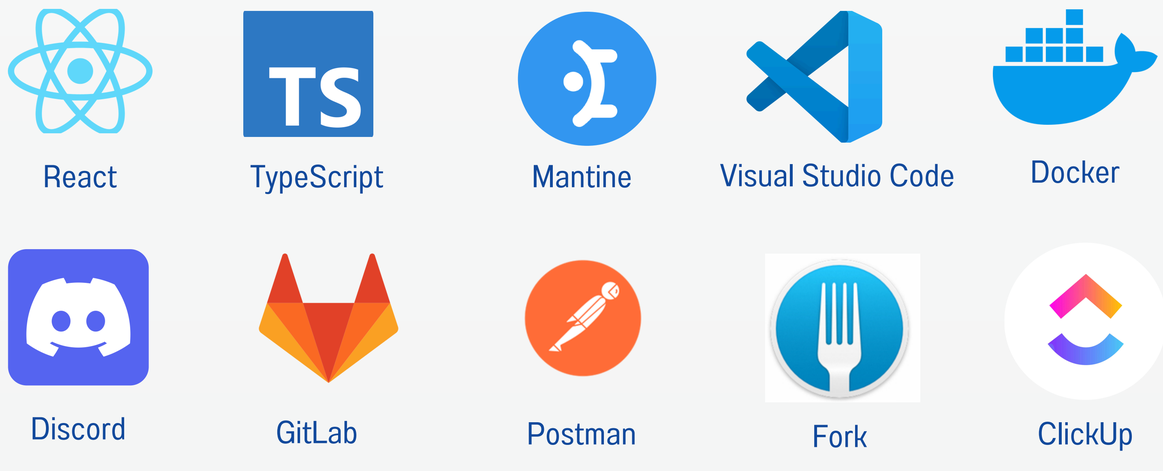
2 INTRODUCTION

The iLand Web Application has been developed to fulfill the need for a structured and secure system for managing land-related information within the organization. Previously, data were stored in paper-based documents and scattered digital files, leading to inefficient workflows and difficulties in information verification. The system functions as a web-based platform integrating land, buildings, documents, and tax data into a centralized environment. It incorporates role-based access control to ensure that users can access and manage information according to their responsibilities, thereby enhancing data security, accuracy, and systematic data management.

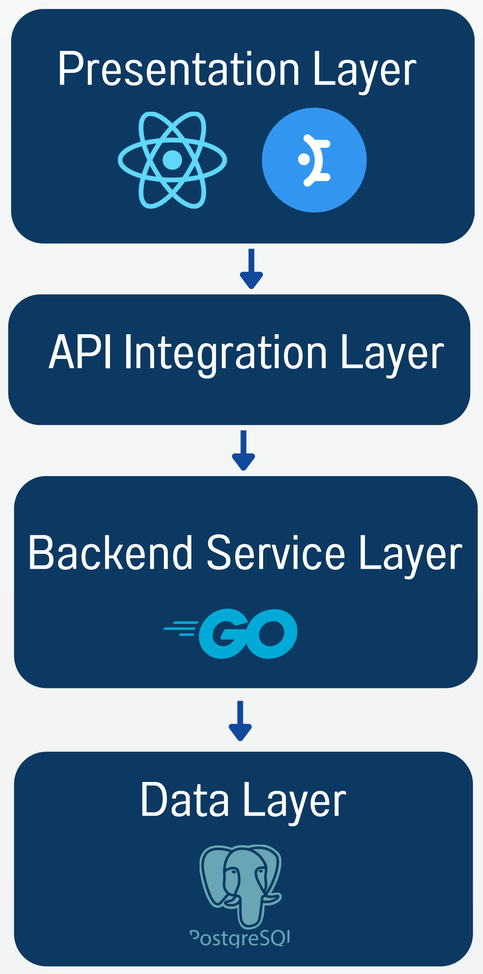
3 METHODOLOGY



4 TECHNOLOGY



5 ARCHITECTURE



6 CONCLUSION

The implementation of the iLand Web Application significantly improves the organization of land-related data within the company. By centralizing information into a structured digital platform, the system reduces data duplication, enhances traceability, and streamlines workflows. The introduction of role-based access control strengthens data security and ensures that information is accessed according to user responsibilities. Overall, the system contributes to more systematic, accurate, and efficient data management across the organization.