6. CONCLUSION

The Home Rental Management System was developed to demonstrate the practical application of software engineering concepts in solving real-world rental management problems. The primary objective of this project was to design and implement a centralized system that simplifies and automates rental-related activities for tenants, landlords, owners, and managers. The system successfully supports essential functions such as user authentication, property listing and approval, tenant application management, rent payment processing, maintenance request handling, notice distribution, and administrative control. By automating these processes, the system reduces manual effort, minimizes human errors, improves data accuracy, and enhances overall operational efficiency.

The project followed the Scrum (Agile) process model, which enabled incremental development through short sprints. This approach allowed the team to continuously refine requirements, implement features step by step, and incorporate feedback throughout the development lifecycle. The Software Requirements Specification (SRS) played a vital role in clearly defining system scope, functional requirements, non-functional requirements, and user roles, ensuring structured and goal-oriented development.

The system was designed with a user-friendly interface and role-based access control to ensure usability and security. Manual testing was conducted on key modules to verify system functionality and reliability. Although some limitations were identified, they provide opportunities for future improvement. Overall, this project enhanced the team's understanding of requirement analysis, system design, Agile development, version control, and software testing, preparing them for real-world software development challenges.