A ReactJS and Redux Hotel Management Website for AiHotel

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***Abstract*—This undergraduate thesis investigates a ReactJS and Redux hotel management website for AiHotel. Hotel staff and guests need room information, reservations, customer records, and administrative workflows. The student surveys hotel operations, models actors and database tables with UML, and builds interfaces for room management, booking, user accounts, reviews, contact, and payment pages. The thesis illustrates the room, booking, account, and administrator screens and reports that the basic hotel-management workflow was implemented. The source notes remaining design errors and unoptimized code. A payment page is shown, but successful real transactions, multi-hotel operation, and measured reliability are not established. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—ReactJS, Redux, hotel management, room booking**

I. Introduction

Hotel staff and guests need room information, reservations, customer records, and administrative workflows. This thesis investigates a ReactJS and Redux hotel management website for AiHotel. It begins from a practical engineering need and explains the technologies and workflow chosen for the case. The objective is to document a student implementation or comparative investigation, together with the evidence available in the manuscript. Broader operational or economic effects require separate measurements and are not assumed from the existence of a prototype [1]. Earlier ICTU student work on related designs is included here for context [2], [3], [4], [5], [6], [7], [8], [9], [10]. These contextual works were selected for this English summary; they are not asserted to appear in the original thesis bibliography.

II. Methods

The student surveys hotel operations, models actors and database tables with UML, and builds interfaces for room management, booking, user accounts, reviews, contact, and payment pages. The source is summarized through its stated design, implementation material, examples, and conclusion. Features shown in the manuscript are distinguished from proposals for later development. This review does not add a new experiment, fill missing measurements with estimates, or treat a planned capability as an observed result. The source thesis remains the provenance for the reported work [1].

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III. Results

The thesis illustrates the room, booking, account, and administrator screens and reports that the basic hotel-management workflow was implemented. The report's screens, configurations, examples, or measurements constitute the evidence for this summary. A capability described only as a design intention is not counted as a validated operational outcome. No additional performance, adoption, financial, or safety figure has been introduced here. The result is interpreted within the scope of the student's documented setup [1].

IV. Discussion

The source notes remaining design errors and unoptimized code. A payment page is shown, but successful real transactions, multi-hotel operation, and measured reliability are not established. Further work could test booking conflicts, access control, and user journeys, then evaluate any multi-hotel extension with documented requirements. These limitations affect how the evidence should be read. The current manuscript can support understanding of the design and reported demonstration, while independent tests would be needed for stronger claims. Any later deployment should document its environment and separate observed outcomes from intended benefits [1].

V. Conclusion

The thesis documents a ReactJS and Redux hotel management website for AiHotel. The thesis illustrates the room, booking, account, and administrator screens and reports that the basic hotel-management workflow was implemented. The source notes remaining design errors and unoptimized code. A payment page is shown, but successful real transactions, multi-hotel operation, and measured reliability are not established. Further work could test booking conflicts, access control, and user journeys, then evaluate any multi-hotel extension with documented requirements. Accordingly, the present contribution is a source-grounded account of the student work and its tested or illustrated scope. Claims about broader effectiveness should be assessed in later work using explicit evaluation conditions [1].

References

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