A Website for Managing Artificial Football Pitches in Thai Nguyen

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***Abstract*—This undergraduate thesis investigates a football-pitch management and booking website for Thai Nguyen. Pitch owners need to maintain availability and bookings while players need to find an appropriate open venue. The student develops a web application with Remix, Prisma, and TypeScript. The manuscript describes owner tools for pitch information and booking schedules, and visitor functions for search, detail views, availability, and booking. The source presents the principal owner and customer workflows, including adding or editing pitches and reserving available time. The conclusion acknowledges missing account-recovery and profile-editing functions. The thesis does not include verified operation across actual pitch businesses, measured time savings, or a transaction-security audit. The author notes that venue-specific customization remains limited. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—football pitch, booking, Remix, Prisma**

I. Introduction

Pitch owners need to maintain availability and bookings while players need to find an appropriate open venue. This thesis investigates a football-pitch management and booking website for Thai Nguyen. 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]. Related published studies provide context for the subject and methods [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 develops a web application with Remix, Prisma, and TypeScript. The manuscript describes owner tools for pitch information and booking schedules, and visitor functions for search, detail views, availability, and booking. 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 source presents the principal owner and customer workflows, including adding or editing pitches and reserving available time. The conclusion acknowledges missing account-recovery and profile-editing functions. 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 thesis does not include verified operation across actual pitch businesses, measured time savings, or a transaction-security audit. The author notes that venue-specific customization remains limited. Further work could test scheduling conflicts with real owners, complete account functions, and evaluate a mobile application after the web workflow is stable. 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 football-pitch management and booking website for Thai Nguyen. The source presents the principal owner and customer workflows, including adding or editing pitches and reserving available time. The conclusion acknowledges missing account-recovery and profile-editing functions. The thesis does not include verified operation across actual pitch businesses, measured time savings, or a transaction-security audit. The author notes that venue-specific customization remains limited. Further work could test scheduling conflicts with real owners, complete account functions, and evaluate a mobile application after the web workflow is stable. 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].

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