An Online Movie Viewing Website Using ReactJS, Django, and SQLite

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***Abstract*—This undergraduate thesis builds a web-based movie viewing system with ReactJS, Django, and SQLite. The author reviews the selected technologies, models user and administrator functions, and presents interface screens for browsing, searching, viewing films, managing viewing history, commenting, and maintaining movie records. Use-case, sequence, and activity diagrams describe the main interactions. The source concludes that the website offers a usable movie catalog and states that attention was given to personal-data security and performance. However, it does not show a controlled usability study, independent security test, load benchmark, or evidence of production operation. The documented contribution is a prototype and its design record. Claims about user satisfaction, protection of personal information, and scalability therefore remain author assessments rather than measured findings.**

***Index Terms*—movie website, ReactJS, Django, SQLite, web application**

I. Introduction

Online movie services bring together content search, viewing, account functions, and catalog management. The thesis sets out to create a website for those workflows. It introduces the ReactJS interface library, the Django web framework, and SQLite as the project database. The report explains the intended user experience and the need for administrators to maintain film information. Its goal is to implement and describe a student prototype, not to measure its competitiveness with established streaming services [1]. Earlier ICTU student work on related designs is included here for context [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 author analyzes user and administrator roles and creates use-case, sequence, and activity diagrams. These cover account registration, film search and viewing, history management, comments, and film administration. The implementation uses ReactJS for the web interface, Django for server-side functions, and SQLite for stored application data. The report then presents screens for the movie catalog, details, viewing page, and related workflows. It does not define a formal security audit or performance-testing procedure [1].

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III. Results

The manuscript shows interface views for the film list, categories, details, and playback page, together with design diagrams for account and history actions. It describes the implemented search and administration functions. These materials support that a connected website prototype was assembled. The source conclusion asserts that the interface is convenient and that security and performance were considered, but it provides no independent measurements for those claims and no evidence of sustained real-world use [1].

IV. Discussion

A ReactJS, Django, and SQLite architecture separates presentation, server behavior, and storage in the demonstrated application. The diagrams make the planned interactions understandable, while screenshots show the visible interface. The report provides limited information about content rights, concurrent viewing load, authentication testing, or privacy safeguards. Consequently, the prototype should be read as an implementation exercise. Additional tests would be necessary before making operational claims about secure or scalable movie delivery [1].

V. Conclusion

The thesis documents an online movie website prototype and its supporting design artifacts. Its described functions include account access, movie discovery and viewing, history, comments, and catalog administration. The source supports the existence of interface screens and workflows but does not quantify usability, performance, or security. The work provides a starting point for later testing and refinement. Statements about a broad film selection or strong protection of user information are not independently substantiated by the reported evidence [1].

References

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