



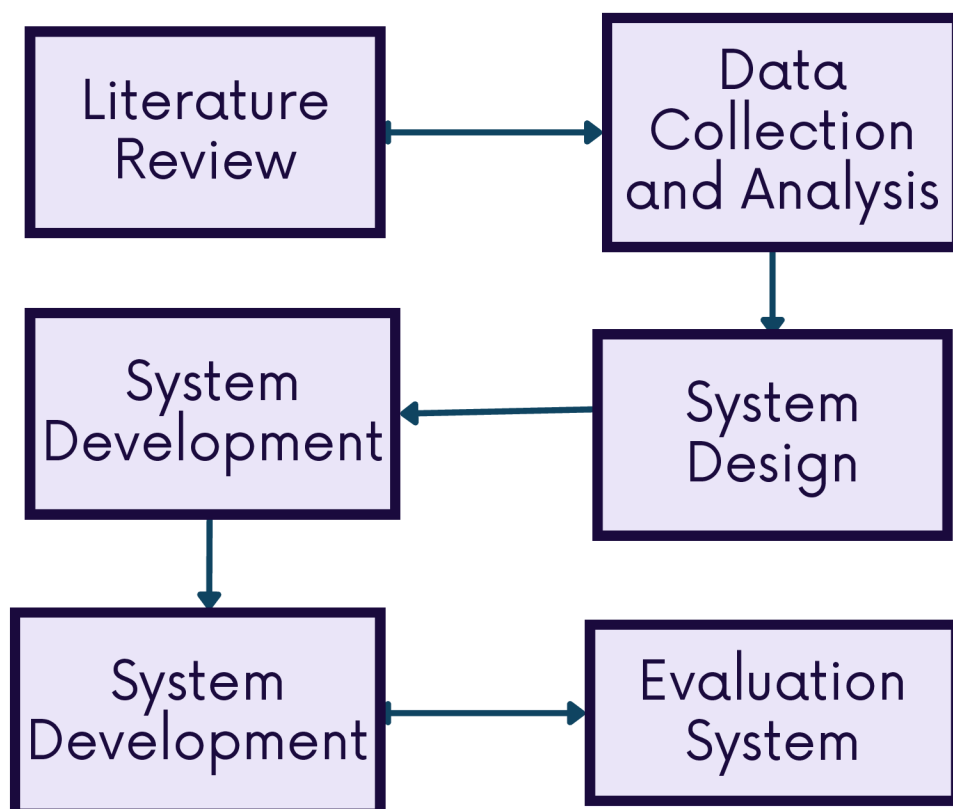
Decision Support Sytem For Student Extracurricular Activity Selection Using The Forward Chaining Method Based On Individual Preferences

AlMalik Ashraf, Aditiyawan

Introduction

Extracurricular activities play an important role in developing students' interests, talents, and character at school. However, many students face difficulties in choosing extracurricular activities that match their interests and abilities. Therefore, this study aims to design and develop a recommendation system application for extracurricular activities using the forward chaining method at SMK Letris Indonesia 2. The forward chaining method is used in a rule-based system to provide appropriate recommendations based on student data, such as interests, talents, and input preferences.

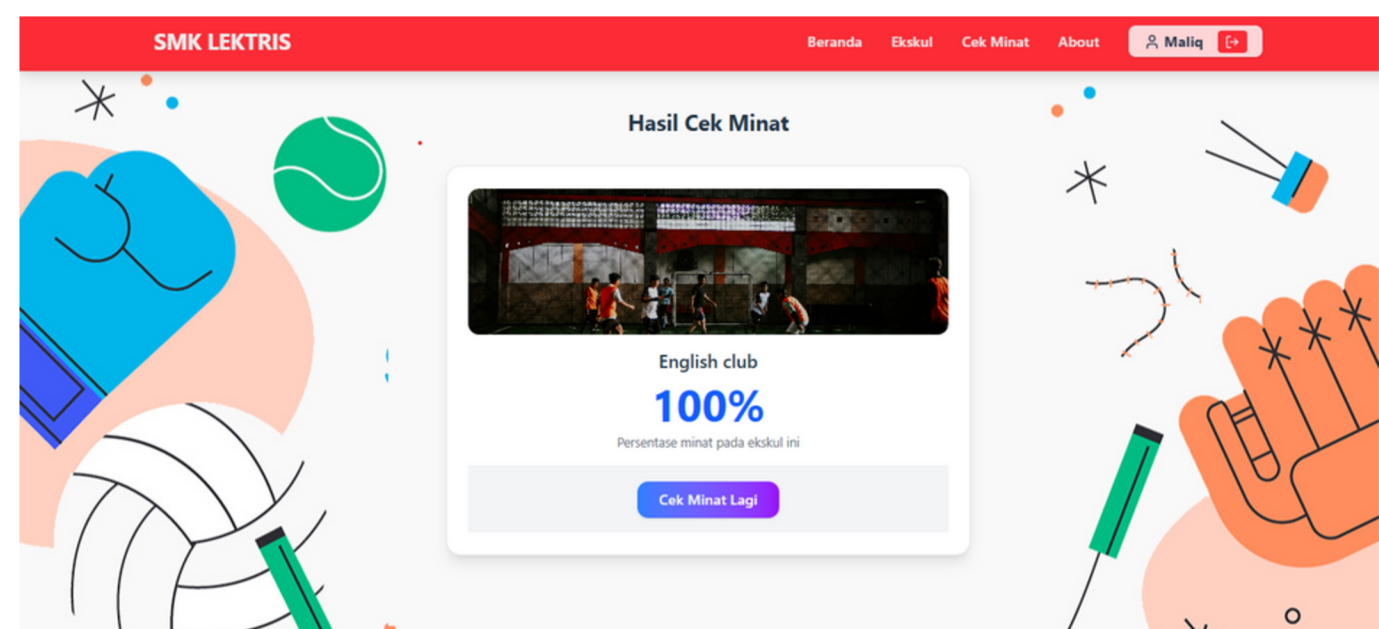
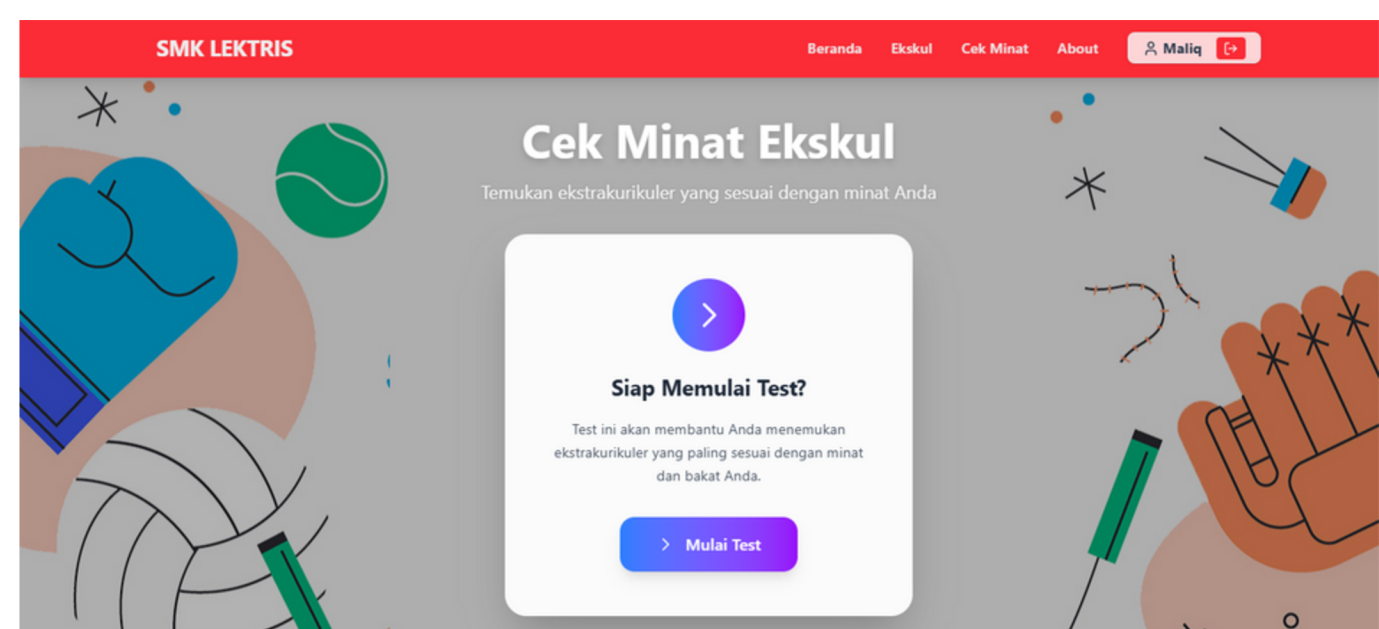
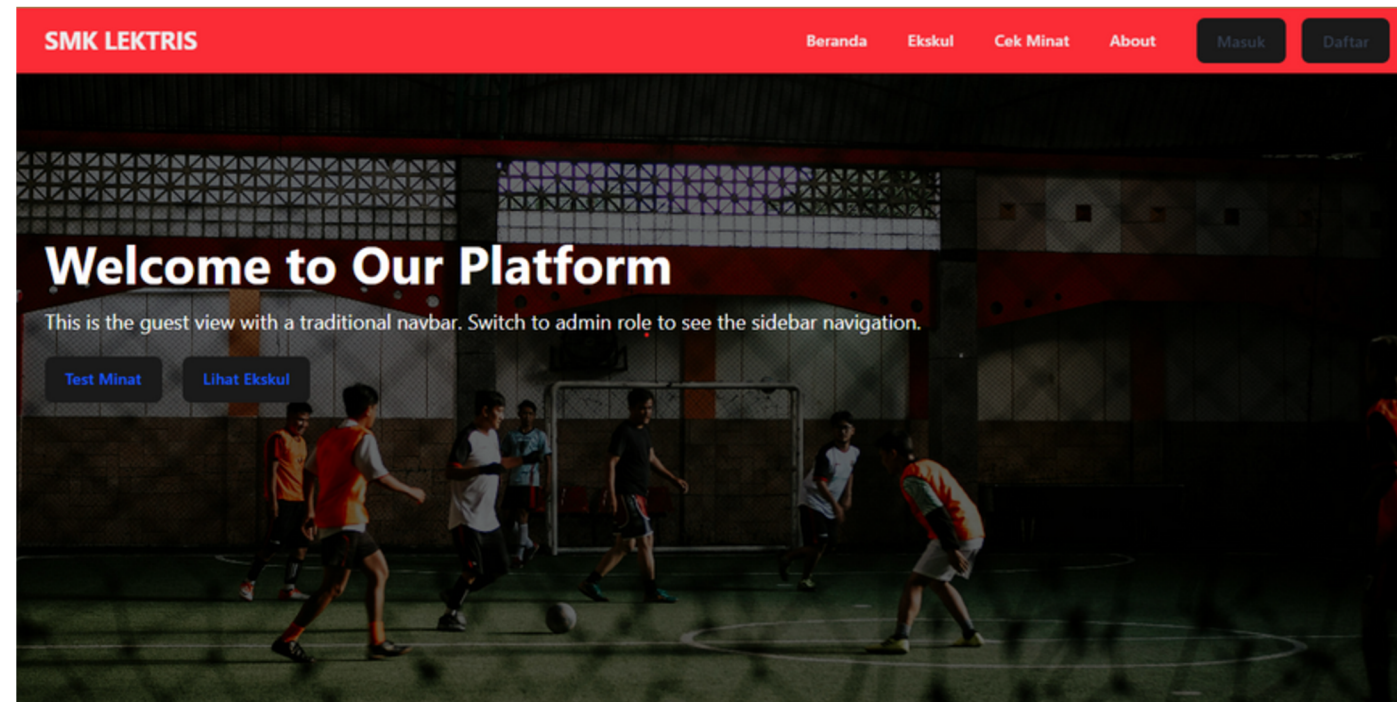
Methodology



Conclusion

Based on the design, development, and testing stages that have been conducted, it can be concluded that the expert system for determining extracurricular activities has been successfully developed using the forward chaining method. All information related to student interests, types of extracurricular activities, and recommendation results were compiled based on input from the extracurricular coordinator and SMK Letris Indonesia 2. After going through the forward chaining-based system testing process and validation by experts, this system proved to be accurate and capable of providing recommendations that meet expectations. The user satisfaction measurement results using the End User Computing Satisfaction method show a satisfaction level of (81.13%). Therefore, this system can be used as an effective tool in determining extracurricular activities according to student interests.

Results



References

- [1] Imara Acacia Khalda, Anita Muliawati, and Bambang Tri Wahyono. Rancang Bangun Sistem Informasi Ekstrakurikuler Berbasis Web (Studi Kasus: SMA Negeri 6 Bekasi). In Prosiding Seminar Nasional Mahasiswa Bidang Ilmu Komputer dan Aplikasinya, volume 1, number 2, pages 419–431, 2020.
- [2] Muhammad Anwar. Designing an expert system for determining student learning styles using forward chaining in engineering education. Jurnal Konseling dan Pendidikan, 9(1):93–101, 2021.
- [3] Dedek Cahyati Panjaitan, Hengki Juliansa, and Robi Yanto. Perbandingan Metode Saw Dan Wp Pada Sistem Pendukung Keputusan Dalam Kasus Pemilihan Kegiatan Ekstrakurikuler. Jurnal Ilmiah Binary STMIK Bina Nusantara Jaya Lubuklinggau, 3(1):30–38, 2021