



IZMIR UNIVERSITY OF ECONOMICS

ENG 210

2024-2025

HOMEWORK #2

LibraMind

Mehmet Kerem Saman

Emre Akıncı

Enes Deniz

Bager Ekin

Deniz Yıldırım

ENG 210 Project Proposal

Team Name	LibraMind Team
Team Members' Names & Departments	Mehmet Kerem Saman Computer Engineering Emre Akıncı Genetic and Bioengineering Enes Deniz Software Engineering Bager Ekin Software Engineering Deniz Yıldırım Electrical electronics Engineering
Introduction / Background	For students and researchers, traditional library systems are difficult to navigate when it comes to book availability management, book searching and getting personalized recommendations. It is difficult for users to search for books and learn about new titles according to their interests. The inefficiencies in inventory management and reservation handling also occur as a result of the manual operations of the present library systems. The vision of this project is to improve the user experience and leverage digital transformation in streamlining library processes.
Project Description	The objective of the project is to create an intelligent library system with an artificial intelligence based book recommendation system. The system shall be capable of recommending books by reading history, checking current availability and reservation status in real time and browsing shelf contents by QR code using a mobile app. The system will provide users with reading statistics and notifications to enhance engagement and productivity.
Credentials	We have a team of software engineering and data science enthusiasts. Each of the team members has a set of skills that varies from AI development, mobile application development and others. All of us are able to provide efficient, scalable and innovative digital library solution together.
Timeline & Budget	The first prototype will be developed in 3 months. The initial month will be used for research and planning, the second month for implementation and the third month for testing and final fine tuning. The estimated budget will be approximately 300,000₺ to cover development tools, server charges and test facilities.
Conclusion	The book and library suggestion system using intelligence will revolutionize traditional library operation by integrating leading-edge technologies such as artificial intelligence and mobile computing. The project will provide an end-user-centered, efficient library resource management and accessibility solution.

References	<p>Anbean Kampüs. (n.d.). Online library system: How does it work? Most used programs. https://anbeankampus.co/blog/online-kutuphane-sistemi-nasil-isler-en-cok-kullanilan-programlar/</p> <p>Dipnot TV. (n.d.). The age of artificial intelligence and the future of libraries at Istanbul Bilgi University. https://dipnot.tv/tr-TR/istanbul-bilgi-universitesinde-yapay-zeka-cagi-ve-kutuphanelerin-gelecegi-paneli</p> <p>Beşiktepe, S. (2018). Integration of QR code applications into library services. <i>BBY 2018 Congress</i>. https://bby2018kongre.ankara.edu.tr/wp-content/uploads/sites/444/2018/05/06-05-Sultan-BE%C5%9E%C4%B0KTEPE.pdf</p> <p>Dergipark. (n.d.). Artificial intelligence and digital transformation applications in libraries. https://dergipark.org.tr/tr/pub/lamre/issue/79184/1299783</p>
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