



Emerging Technologies and Digital Services at EdUHK Library



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O 1 Collaborative Learning and Immersive Technology





Collaborative Learning and Immersive Technology

Introduction

VR CAVE (cave automatic virtual environment)

- Key component of the XR Room, one of the 8 Future Classrooms, built inside EdUHK Library in 2021.
- Design consideration for different subjects; teaching and learning approaches from traditional to experimental; levels of students; class sizes and technology adoption.
- With this set up, it is recommended to increase educational game contents for the CAVE.









Collaborative Learning and Immersive Technology

Why and What

- To enhance educational experiences by integrating immersive technologies. Collaboration between Library and LTTC to support innovative teaching.
- Developing educational contents for the VR CAVE to create engaging learning environments; aligned with the University's pedagogical needs.

How to do it

- A structured approach involving education game selection; video-creation sessions; script writing/coding; deliver contents to Cave.
- LTTC extends the project experience to facilitate T&L.



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Collaborative Learning and Immersive Technology

Pros

- Enhanced interaction
- Promotes active learning
- Collaboration among peers
- Provides personalized learning experiences
- Increases motivation and interest
- Prepare for Digital Competency

Cons

- Potential technology barriers
- Requires training for effective use
- Distract from traditional learning method
- Accessibility issues for some students
- Reliance on technology can be problematic







02 Enhancing User Experience with EdU LibMAP





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Enhancing User Experience with EdU LibMAP



Overview of EdU LibMAP

- A mobile application to enhance user navigation within the EdUHK Library.
- Features interactive floor maps which helps to locate bookshelves and facilities.



- Includes an SDK that allows (staff) to program additional functions.
- Provides flexibility for customization and improvement.
- Makes use of Wi-Fi APs to provide positioning.

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User Engagement

Provide real-time location points and intuitive navigation tools.

Enhances user experience, encourage greater

utilization of library resources.



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Enhancing User Experience with EdU LibMAP



Interactive Features

Implementing navigation elements within EdU LibMAP can enhance user engagement by making discovery more enjoyable. Encourage more library visits.

User Feedback

- Seek user feedback on EdU LibMAP's functionality allows for continuous improvement.
- Provides flexibility for customization and improvement.

App Promotion

- Library tours to raise awareness.
- Deploy same floor maps on main Library web sites and floor directory panels.
- Downloads; Aug-Oct 2024 (2023)
 - EdU LibMap: 1169 (916)
 - * EdU Library App: 5124 (3421)



Enhancing User Experience with EdU LibMAP

SDK

- Floor Map contains many point-of-interest (POI) that marks a library facility or bookshelf.
- The Software Development Kit (SDK) allows system staff to develop and integrate custom features such as real-time indoor positioning, wayfinding, search, etc.
- Supplier of EdU LibMap is responsible for production of Floor Map; EdUHK Library is responsible for SDK integration and production of mobile apps.



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03 Library (AI) Chatbot: Benefits and Areas for Improvement





Library (AI) Chatbot: Benefits and Areas for Improvement



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Library (AI) Chatbot: Benefits and Areas for Improvement









Library (AI) Chatbot: Benefits and Areas for Improvement



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Improved Accessibility

- The integration of AI technologies enhances accessibility for all users.
- Providing instant support which is beneficial for those with time constraints.

Personalized Experience

- By leveraging data analytics, Library can offer tailored recommendations to users.
- Enhance their engagement and satisfaction by aligning preferences and needs.

24/7 Availability

The AI Chatbot ensures availability around the clock Improve overall user experience.



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Library (AI) Chatbot: Benefits and Areas for Improvement



User Interaction Limitations

- Despite the AI Chatbot's capabilities, users often encounter challenges with understanding its responses.
- Need improved natural language processing and user interface design.

Further Work

- Regularly review user's enquiries.
- Train Chatbot by customizing answers and be more precise.









AI Education and Subject Analogy (simplify)











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THANK YOU