

SafAR



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Docket : AR-1

Patent : NA

Description

SafAR is a comprehensive research framework that develops heuristic guidelines for effectively integrating Augmented Reality technology into cultural heritage experiences, specifically focusing on Indian historical monuments. The project uses Qutub Minar as a primary case study to identify visitor needs and establish a set of 15 detailed heuristics that guide the implementation of AR in heritage contexts. Through a methodology combining questionnaires, cultural context exposure, semi-structured interviews, and collaborative co-creation workshops, SafAR creates a bridge between traditional heritage narratives and modern technology interfaces. The framework emphasizes cultural authenticity, multilingual accessibility, emotionally resonant storytelling, and sustainable tourism practices while leveraging AR to create personalized, interactive experiences for visitors at historical sites.

Features

- **Culturally Authentic AR Integration Framework:** A comprehensive set of 15 heuristic guidelines that ensure AR technology enhances rather than diminishes the authentic cultural experience of heritage sites
- **Multilingual Digital Heritage Interpretation:** AR-based systems that provide historical information, architectural details, and cultural context in multiple languages to accommodate diverse visitors from various linguistic backgrounds
- **Interactive Historical Storytelling:** Emotionally resonant narrative techniques delivered through AR that connect visitors to the human stories and cultural significance behind historical monuments and artifacts
- **Self-Guided Exploration Tools:** Personalized AR interfaces that allow visitors to explore heritage sites at their own pace while receiving context-sensitive information based on their location, interests, and preferred depth of content
- **Co-Creation Methodology for AR Development:** A structured six-step workshop approach for developing heritage-focused AR applications that includes problem introduction, familiarization, idea generation, sorting, screen design, and reflection

Applications

- **Enhanced Monument Tours:** Implementation at sites like Qutub Minar to transform traditional guided tours with AR layers that reveal historical contexts, architectural details, and cultural significance not visible to the naked eye
- **Heritage Education Programs:** Educational applications for schools and universities that use AR to create immersive learning experiences about historical monuments, making history more engaging and memorable for students
- **Digital Conservation and Documentation:** Tools for heritage professionals to digitally preserve cultural information, architectural details, and historical narratives associated with monuments for future generations
- **Cultural Tourism Development:** Implementation frameworks for tourism boards to enhance visitor experiences at heritage sites, potentially increasing visitor numbers, extending visit duration, and improving visitor satisfaction

Use-cases

- **Heritage Site Administrators and Curators:** Professionals responsible for managing historical monuments and archaeological sites who seek to enhance visitor engagement through technology while maintaining cultural integrity and historical accuracy.
- **Tourism Boards and Destination Marketing Organizations:** Government and private tourism entities looking to improve visitor experiences at cultural heritage sites through innovative digital solutions that attract both domestic and international tourists.
- **Educational Institutions and Cultural Programs:** Schools, universities, and educational organizations that want to create immersive, interactive learning experiences about cultural heritage for students of various ages and educational backgrounds.
- **Archaeological and Conservation Professionals:** Experts in heritage preservation who can utilize AR technology to document, analyze, and share information about historical sites while promoting conservation awareness.
- **Technology Developers Specializing in AR for Heritage:** Companies and individuals creating AR applications who need established heuristics and guidelines to ensure their products appropriately and effectively integrate with cultural heritage contexts.

Theme

Technological specifications

- AR Development Platform
- Mobile Application Interface
- Geolocation and Spatial Mapping Technology
- Computer Vision Systems
- 3D Modeling and Rendering Tools
- Cloud-Based Content Management System
- Real-time Rendering Engine

Domain

- Digital Cultural Heritage
- Historical Monument Tourism
- Archaeological Technology

Theme

- Augmented Reality
- Immersive Technology
- Computer Vision
- Spatial Computing

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