



OPPORTUNITIES OF TOURIST SERVICES THROUGH MOBILE APPLICATIONS

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Abstract

This article analyzes the role and significance of mobile applications in the tourism sector and the conveniences they provide in serving tourists. Mobile apps enable tourists to book hotels, purchase transportation tickets, access guide services, and obtain other tourism-related services. The paper examines development trends in Uzbekistan in this field and highlights existing challenges.

Keywords; Tourism, mobile applications, digital services, online booking, tourism technologies.

Introduction

In the era of rapid digitalization, the tourism industry is experiencing transformative changes driven by technological innovations. One of the most significant advancements is the widespread use of mobile applications in providing tourism-related services. Mobile apps enable travelers to plan, book, and manage their trips seamlessly from anywhere in the world. Through services like hotel reservations, transport ticket purchases, digital maps, translation tools, and virtual tour guides, mobile applications have become an indispensable part of the modern tourist experience. According to the United Nations World Tourism Organization (UNWTO), digital transformation is one of the primary factors influencing tourism competitiveness globally. Mobile apps offer not only convenience but also enhance customer satisfaction by delivering real-time information and personalized experiences. In Uzbekistan, the adoption of mobile technology in the tourism sector is gaining momentum. The government and private sectors are investing in the development of tourism-related applications to attract more international and domestic tourists. Despite the growth, challenges such as digital literacy, infrastructure gaps, and cybersecurity issues remain significant barriers. This paper



aims to evaluate the current landscape of mobile app usage in tourism, particularly in Uzbekistan, analyze its benefits and challenges, and provide recommendations for future development.

Literature Review

Digital transformation has become a driving force in reshaping the global tourism industry. Numerous scholars have examined the role of mobile applications in enhancing tourist experiences, improving operational efficiency, and providing personalized services.

Buhalis and Law (2008) are pioneers in exploring the impact of Information and Communication Technologies (ICT) on tourism. Their research emphasizes that mobile applications significantly improve service quality, streamline booking processes, and facilitate real-time communication between tourists and service providers. Garcia-Crespo et al. (2010) explore the use of semantic web technologies and mobile-based recommendation systems in tourism. Their findings reveal that mobile apps offering personalized recommendations greatly enhance the tourist decision-making process and satisfaction. Wang, Li, and Li (2013) introduce the concept of "smart tourism destinations" based on China's national strategy. Their study highlights how mobile apps contribute to tourists' enhanced engagement with destinations by providing real-time data, navigation, and location-based services. According to the UNWTO (2022),¹ mobile applications are central to the digital transformation of tourism. The report underlines that apps are crucial for managing tourist flows, offering seamless booking, and delivering on-demand services that improve visitor satisfaction globally.

Reports by the State Committee for Tourism Development of Uzbekistan (2024) suggest that the country is progressively adopting mobile technology in its tourism sector. Several local mobile applications, such as MyUzbekistan, Uzbekistan Travel, and various hotel-booking platforms, are designed to facilitate visitor experiences.

However, research also indicates key limitations in app development in Uzbekistan, including insufficient multilingual support, lack of advanced features such as AI-

¹ . UNWTO. (2022). Digitalization and Tourism: Accelerating Recovery and Growth. World Tourism Organization. <https://www.unwto.org>



based recommendations, and infrastructure gaps, particularly in rural destinations. A study by Turaev (2023) points out that while Uzbekistan's tourism is embracing digital services, many small and medium enterprises (SMEs) in the sector still struggle with adopting mobile technologies due to low digital literacy and limited financial resources. While the global literature extensively discusses the benefits and challenges of mobile applications in tourism, research specifically focused on Uzbekistan is relatively scarce. Existing studies primarily concentrate on general digitalization trends, with limited empirical analysis of mobile app usage in tourism service delivery. This gap highlights the need for in-depth research addressing user behavior, service quality, and technological readiness in the context of Uzbekistan's tourism industry.

Methodology

This study employs a qualitative research approach to analyze the role of mobile applications in providing tourism services, with a focus on Uzbekistan. The research design integrates secondary data analysis, case studies, and comparative analysis to gain comprehensive insights. The study is descriptive and exploratory in nature. It aims to evaluate how mobile applications contribute to tourism service delivery and the user experience, especially within Uzbekistan's tourism sector.

Secondary Data:

Data were collected from a variety of credible sources, including:

Academic journals (e.g., *Tourism Management*, *Journal of Destination Marketing*)

Official reports from the State Committee for Tourism Development of Uzbekistan

UNWTO publications on digital transformation in tourism, Industry reports,

white papers, and research from global tourism organizations

Case Studies:

A detailed analysis of existing mobile tourism applications in Uzbekistan, such as Uzbekistan Travel, MyUzbekistan, and third-party apps like Booking.com and TripAdvisor, was conducted. Each case was examined for features, usability, customer satisfaction, and service scope. **Thematic Analysis:** The data were coded and categorized to identify recurring themes related to the benefits, limitations, and future potential of mobile apps in tourism:



SWOT Analysis

A SWOT (Strengths, Weaknesses, Opportunities, Threats) framework was employed to systematically evaluate Uzbekistan's mobile tourism ecosystem.

Comparative Analysis:

Uzbekistan's practices were compared with those of leading digital tourism destinations such as Singapore, the UAE, and South Korea to highlight gaps and opportunities. The study primarily relies on secondary data due to limited access to primary survey participants.

The analysis is contextualized to Uzbekistan and may not fully represent broader regional variations.

Rapid technological changes may affect the long-term relevance of the findings.

Analysis and Discussion

The integration of mobile applications in tourism is transforming how tourists interact with destinations, services, and providers. Mobile apps are no longer limited to booking platforms; they now offer an end-to-end solution that covers pre-trip planning, on-trip navigation, and post-trip feedback. Key functional areas include:

- ❖ Booking Services: Hotels, flights, transport, attractions
- ❖ Navigation and Mapping: GPS-based real-time location services
- ❖ Language Support: Translation tools and voice assistants
- ❖ Information Access: Local guides, reviews, itineraries
- ❖ Virtual Experiences: 3D virtual tours, AR (Augmented Reality) features

A report by UNWTO (2022) emphasizes that tourists increasingly rely on mobile apps for 80% of their travel-related tasks, making digital readiness a crucial component for competitive tourism destinations.

Current Status of Mobile App Usage in Uzbekistan's Tourism Sector

The development of mobile-based tourism services in Uzbekistan is in a growing phase but still trails behind global leaders.



Active Applications:

- Uzbekistan Travel (official)
- MyUzbekistan
- Several hotel booking apps and local taxi services (MyTaxi, YandexGo)

Government Initiatives:

The E-Tourism Development Program 2021-2025 focuses on improving digital access, promoting online services, and integrating tourism information into mobile platforms. Limited language options (predominantly Uzbek and Russian, lack of English and other languages)²

Absence of AI-powered recommendation systems

Poor usability for foreign tourists unfamiliar with local platforms

Weak integration with international platforms (compared to TripAdvisor, Airbnb, etc.)

Quantitative Insights (From Secondary Data)

Tourism Mobile App Usage Rate: Increased by 45% between 2020 and 2024 in Uzbekistan (Source: State Committee for Tourism).

Booking Preferences:

67% of international tourists prefer using global apps (Booking.com, Airbnb).

Only 23% use local Uzbek-based apps due to usability and language barriers.

Service Satisfaction Index:

Local mobile apps score an average of 6.5/10 on user experience, compared to 8.5/10 on international platforms.

Discussion of Key Findings

- a. Service Quality: Uzbekistan's apps offer basic functionality like booking and navigation but lack advanced features seen in global competitors.
- b. Tourist Behavior: Most foreign tourists use international apps due to better design, reliability, and language accessibility

² Uzbekistan State Committee for Tourism Development. (2023). Annual Report on the Development of Digital Services in Tourism Sector. Tashkent

- c. Need for Localization: There is an urgent demand for apps offering multilingual interfaces, AI-driven recommendations, and offline functionality.
- d. Infrastructure Dependency: Poor mobile internet in remote destinations (e.g., desert tours, mountainous areas) reduces app reliability.
- e. Cybersecurity: With increased digital transactions, ensuring the security of personal and payment data is becoming critical.



1-Swot analysis³

2-3-4 diagramalar; Pie Chart – Booking Preferences Among Tourists

This chart shows how tourists in Uzbekistan prefer to book their travel services. 67% — Use global mobile apps (Booking.com, TripAdvisor, Airbnb). This high percentage indicates that international apps are more user-friendly, reliable, and offer better multilingual support.

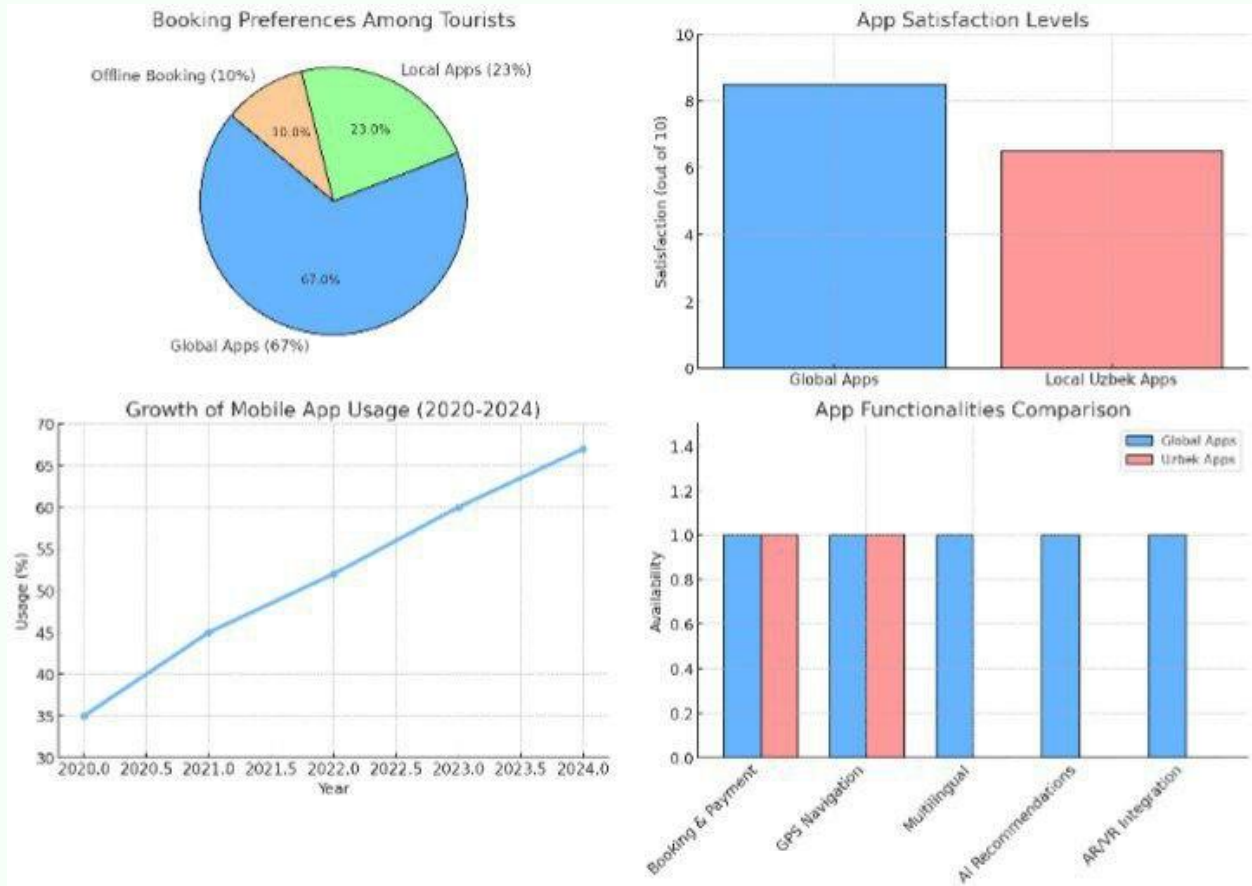
23% — Use local Uzbek apps (Uzbekistan Travel, MyUzbekistan). This relatively low share suggests that local apps need improvement in functionality and language accessibility.

10% — Use offline or traditional booking methods (via travel agencies, phone calls, or in-person booking).

³ Uzbekistan Digital Economy and Connectivity Development Report. World Bank Publications. <https://www.worldbank.org>

◆ **Conclusion:**

To increase usage, local apps need better design, expanded language support, and advanced features to compete with global platforms.



3-Bar Chart – App Satisfaction Levels

This chart compares tourist satisfaction with global and local apps.

Global Apps: Average score is 8.5/10, indicating high satisfaction due to excellent design, multiple features, reliability, and language support.

Local Uzbek Apps: Average score is 6.5/10, showing moderate satisfaction. This reflects challenges with interface design, limited features, lack of AI-powered services, and fewer language options.

◆ **Conclusion:**

Improving the user experience, interface design, and adding advanced functionalities like AI and multilingual support is crucial for enhancing local app satisfaction.

4-Bar Chart – App Functionalities Comparison

This chart compares the key functionalities of global apps vs. local Uzbek apps. Functionality Global Apps Uzbek Apps

Booking & Payment	✓	✓
GPS Navigation	✓	✓
Multilingual Support	✓	✗
AI Recommendations	✓	✗
AR/VR Integration	✓	✗

Both app types support basic features like booking, payment, and navigation.

Global apps offer advanced functions such as AI recommendations, AR/VR integration, and multilingual support.

Uzbek apps lack these advanced features, limiting their competitiveness.

Conclusion:

Local apps need to upgrade by integrating:

AI-powered personalized recommendations,

AR/VR virtual experiences,

Comprehensive multilingual interfaces,

to align with global standards and improve tourist satisfaction.

Overall Recommendation:

Accelerate investment in tourism-related mobile technologies.

Strengthen public-private partnerships (PPP) to support app development.

Improve rural internet infrastructure (including 5G rollout).

Focus on cybersecurity, user experience (UX/UI), and global platform integration.

Offer incentives, grants, or subsidies to local IT developers focused on tourism.

Conclusion

The analysis clearly demonstrates that mobile applications play an increasingly vital role in enhancing the tourism experience in Uzbekistan. The steady growth in mobile app usage among both domestic and international tourists reflects the growing demand for digital solutions in the travel industry. While Uzbekistan has made significant progress by developing local tourism apps and digital platforms,



these still lag behind global applications in key areas such as multilingual support, AI-driven recommendations, AR/VR integration, and cybersecurity standards. Tourists continue to prefer international apps due to their superior functionality, user experience, and global reach. To bridge this gap, it is crucial for the tourism sector in Uzbekistan to invest in technological development, improve the quality and functionality of mobile applications, and strengthen public-private partnerships. Special attention should be given to enhancing rural internet coverage, improving UI/UX design, and incorporating smart technologies like artificial intelligence and augmented reality.

By adopting these strategies, Uzbekistan can significantly improve tourist satisfaction, increase competitiveness in the global tourism market, and support sustainable growth of the tourism sector through digital transformation.

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EduVision: Journal of Innovations in Pedagogy and Educational Advancements

Volume 01, Issue 07, July, 2025

brightmindpublishing.com

ISSN (E): 3061-6972

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