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## **The impact of JSON API mobile applications in Tourism**

### **Purpose**

Given the rapid uptake of Smartphone technology and associated apps, there is a need to evaluate the current and emerging state-of-the-art and what this means for the tourist travel domain. While Smartphone and their associated apps are useful in all forms of tourism travel arrangements, the focus of this article is the applications that use open data. The applications are based in RESTful API (Application Programming Interface) architecture, and the data transmitted are in JSON(JavaScript Object Notation) format. JSON API is a specification for how a client should request that resources be fetched or modified, and how a server should respond to those requests.

This article has the aims: to evaluate the current capabilities of Smartphone apps within the tourism travel domain, to analyze how the Smartphone app is evolving society's contemporary understandings of time and relationships with place and things in the tourism travel domain and to highlight the role of the JSON API applications in the market of mobile applications. The article's contribution to knowledge lies in adding to the understanding of how the evolving mobile technology in the tourism effects in the decisions of the consumer and better understanding of what kind of information do tourist search online

### **Methodology**

Survey instruments

The questions are mainly formulated in multiple-choice questions or choosing the favorite alternative using a five-point Likert summated scale. Scores from 1 to 5 were adopted to indicate the degree of usage among respondents whereby 1 anchored "never used the application" and 5 "every-time used the application".

Statistical analysis

The survey is created and distributed using the "Qualtrics survey platform".

### **Findings**

The survey is focused on analyzing:

- The impression of the users in using mobile applications or web applications.
- The preference of the user in booking the hotels by using travel agency or mobile applications.
- The type of tourism information they mostly search for online.
- The role of the TripAdvisor mobile application, in the restaurant or hotel reservations. This application uses JSON API architecture.
- The role of the Weather mobile application in determining the time and destination of the travel. This application also uses JSON API architecture.

- The role of Google Maps mobile application in choosing the destinations. This application uses JSON API architecture.

### **Conclusions**

This article contributes to understanding how JSON API mobile applications mediate travel decisions. A review of apps demonstrates a range of functionalities is being employed from weather prediction to via more sophisticated tools such as GPS tool.

### **References**

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