

MAPS API AND WEBRTC IMPLEMENTATION FOR ONLINE PRESENCE

(Case Study of OJC Yogyakarta)

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ABSTRACT

Attendance during a pandemic requires reducing physical contact, maintaining distance, and avoiding crowds. Therefore, attendance by scanning fingerprints or scanning work cards, becomes more vulnerable than normal time. The OJC workshop has implemented one supporting facility for attendance, which is using the help of a Spreadsheet link that is filled out by employees until the predetermined delay time limit. However, there is a lack of presence with the link, where employees can commit data fraud by filling in the presence even though they are not yet in the OJC workshop area. To correct and cover these shortcomings, a system with Maps API and WebRTC technology for Web-Based Online Presence was created, where the system already has several features that can minimize fraud, because there is a maximum distance determination and displays the location of the OJC workshop where the map design map uses Google Maps API, as well as real time data supported by WebRTC by using a webcam or cellphone camera. The programming language used in making the system is PHP, MySQL as a database server, and Visual Studio Code as a text editor. This web-based online presence system provides accurate and appropriate attendance information between the functions and buttons that are made, as evidenced by testing using a black box where from 18 processes, all functions of the features show results in accordance with expectations with valid information. It can be concluded that this attendance system has 100 percent success.

Keywords: *Maps API, WebRTC, Presentation, Online.*