

Fencing Sports Online Application: Promoting Sports through Technology

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Abstract

The Ministry of Culture, Sports, and Youth (MCSY) is committed to implement the Oman Vision 2040 related with promoting the sports in youth among Oman. Utilising technology can enhance the sports by more engagement, training, and competition. Also, MCSY promotes the young generation to grow a vibrant and nurturing generation of Olympic sports players.

There are sports enthusiasts in Oman. However, many sports items are yet to have national championships, because of the lack of popularity. Especially fencing games is an Olympic sports, which has not much wide popularity in Oman. Fencing sport is a complex sport item, which requires a good physical as well as mental strength and a tactical thinking. To build a strong, supportive community where the artistry of fencing meets with the creativity of design, promoting a whole and enriching experience for all involved.

The goal of the proposed application is to create a web application for athletes, coaches, administrators and fans. The application can address various requirements of the fencers such as online training courses, past game analysis, upcoming game notifications, live streaming of the events, and social networking platforms to connect with the fencing community.

The study utilizes mixed methods by qualitative interviews as well as quantitative surveys for the data collection, to identify the functional as well as non-functional requirements.

Once implemented, the application serve as the Oman fencing sport portal, connecting the training academy, coaches, the existing as well as upcoming athletes. The social networking platform enhance networking within the fencing community. The application design is in a user-friendly interface (UI), and using intuitive design to enhance a user experience (UX). The app can enthrall the audience with its usage of 2D as well 3D multimedia elements. Additionally, the system can provide data analytics in training efficiency, that can foster a culture of continuous enhancement within the fencing sports.

The implications of the application is beyond the sports players, but also the overall sports community. The application can motivate more youth engagement in the sports as well as future Olympic participation as well. The sports education, which is part of the application, can be pave way to national priority of enhancing community engagement and to improve the health and well being.

To summarise, the online fencing sport portal put forward a substantial step with technology enhancement in sport pursuit. The application enhances accessibility, strengthen the community, and provide specific training resources. It can of course, open new opportunities, again to integrate the emerging technology to meet the rapid growth in the sports field. The aftereffects of implementing the application would be in enhancing the health and well being, community engagement in the sports, developing sports education, diversifying sports sector, and developing economic contributions, which are the primary goals of sports in the Oman Vision 2040.