SQM

Shopping Queue Manager
A web based shopping queue management system built with Python Flask, Bootstrap and jQuery

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Problem Statement

Shopping Lines

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Introduction

Shopping Queue Manager is a Web based management system developed for the purpose of easing the process of organizing queues and lines while shopping. Like many other queue management systems, this system provides a basic control panel that allows the users and customers to interact with it via a basic and simple user interface. The point that makes this system different from others is its free usability and features of modifying and sharing which makes it a good alternative to the many expensive management systems. Moreover, The independent nature of this system, has influenced the development towards more independent IT solutions, that won't require you to be more dependant on specific operating system or hardware, instead finding new solutions that fits all.

Project Features

- **Web-based platform:**

It gives the ability to multiple users and devices to interact with system at the same time, without the need for Internet access. It has the ability to run on any local network.

- **Customization:**

Gives the user the ability to customize every interface , granting a unique and special experience for every user .

- **Multimedia:**

Offers a multimedia platform, that any permitted user can upload videos, images or Sound files to, so they can be incorporated in the customization process .

- **Verbal announcement:**

Supports text-to-speech clear and high-quality verbal announcement, in five different languages English, Arabic, French, Italian and Spanish and with different preferences and settings .

- **User management:**

Offers a user-based platform, so multiple users have the ability to register, log-in and monitor their own assigned by Admin tasks .

Conclusion

- Queue management systems are used to control queues and provide assurance
for prioritized flows with improved and maximized network utilization. With the use of this system, it is easier to advance the speed and quality of service provision. Furthermore, the system utilizes various kinds of scheduling algorithms to arrange queues and sequence the next customers for service rendering. Shopping Queue management systems pose a high impact to offices in terms of customer flow and average delay time of individuals. Overall, queuing systems provide a better quality of service to customers and results to a greater satisfaction upon customers and staffs alike.