**Project Name**

**Software Requirements Specification**

**Course Code:**

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**Course Name:**

**Front End Developer and Server-Side Scripting**

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**1. INTRODUCTION**

**1.1 PURPOSE**

* **This document outlines the specifications and requirements for the WIXVENT event management website. The primary purpose of this website is to provide a comprehensive platform for users to manage and register for events seamlessly, enhancing the overall experience for both event organizers and attendees.**

**1.2 SCOPE**

* **The WIXVENT website will facilitate event registration, management, and communication for various events. It will include features such as user registration, event creation, a dashboard for administrators, and detailed information about event venues. The website aims to streamline the event management process, making it easier for organizers to host events and for attendees to find and register for events of interest.**

**1.3 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS**

* **HTML: HyperText Markup Language, the standard markup language for creating web pages.**
* **CSS: Cascading Style Sheets, used for describing the presentation of a document written in HTML.**
* **JS: JavaScript, a programming language that enables interactive web pages.**
* **PHP: Hypertext Preprocessor, a server-side scripting language designed for web development.**
* **UI: User Interface, the means by which a user interacts with a computer or software.**
* **Admin: A user with elevated permissions to manage the website and its content.**

**1.4 REFERENCES**

* **RSVPify (https://rsvpify.com/), a leading event management platform that serves as a reference for features and user experience.**

**1.5 OVERVIEW**

* **The WIXVENT website will provide a user-friendly platform for event organizers to create and manage events, while attendees can easily register and find information about upcoming events. The website will be designed with a focus on usability, ensuring that users can navigate the site effortlessly and access the information they need quickly.**

**2. GENERAL DESCRIPTION**

**2.1 PRODUCT PERSPECTIVE**

* **The website will serve as a standalone application hosted on GitHub, designed to be responsive and accessible across various devices. It will leverage modern web technologies, including HTML, CSS, JavaScript, and PHP, to deliver a rich user experience. The design will prioritize mobile responsiveness, ensuring that users can access the site from smartphones, tablets, and desktops without any loss of functionality.**

**2.2 PRODUCT FUNCTIONS**

* **Event Creation: Organizers can create and customize events, including setting dates, times, locations, and descriptions. They will have the ability to upload images and promotional materials to enhance the event's visibility. The event creation process will be straightforward, allowing organizers to fill out a form with all necessary details and publish the event with a single click.**
* **Event Registration: Users can register for events directly through the website, filling out necessary information such as name, email, and any specific preferences related to the event. The registration process will be designed to be quick and user-friendly, minimizing the number of steps required to complete registration.**
* **Dashboard: A dedicated admin dashboard will allow administrators to manage events, view registration statistics, and monitor user engagement. This dashboard will provide insights into event performance, helping organizers make informed decisions. Admins will be able to filter data by event, date, and user demographics to better understand attendance trends.**
* **Admin Page: Admins will have a comprehensive page to manage users, events, and view analytics. This includes the ability to edit or delete events, manage user accounts, and generate reports on event attendance and user activity. The admin page will also feature tools for sending bulk emails to users regarding upcoming events or important announcements.**
* **Login/Signup: Secure user authentication will be implemented, allowing users to create accounts, log in, and manage their profiles. Password recovery options will also be available to enhance user experience. The signup process will require minimal information to encourage user registration while ensuring that all necessary data is collected.**
* **Event Venue Information: Detailed information about event venues will be provided, including location maps, directions, and accessibility options. This will help attendees plan their visits effectively and ensure they have all the necessary information before attending an event. Venue details will also include parking information and nearby accommodations for out-of-town attendees.**

**2.3 USER CHARACTERISTICS**

* **Event Organizers**: Individuals or organizations hosting events who require a platform to manage registrations, communicate with attendees, and promote their events effectively. They may have varying levels of technical expertise, so the platform must be intuitive and easy to use. Organizers will benefit from features that allow them to customize event details, track registrations, and analyze attendee data to improve future events.
* **Attendees**: Users looking to register for events, who need a straightforward and efficient way to find and sign up for events that interest them. They may range from casual participants to professionals seeking networking opportunities. Attendees will appreciate a seamless registration process, easy access to event information, and the ability to manage their registrations through a user-friendly interface.
* **Administrators**: Users with elevated permissions responsible for overseeing the website's functionality, managing content, and ensuring a smooth user experience. Administrators will need tools to monitor user activity, manage events, and generate reports on event performance. They should have access to analytics that help them understand user engagement and improve the platform.

**2.4 GENERAL CONSTRAINTS**

* The website must be responsive and accessible on all devices, ensuring a consistent experience across different screen sizes. It should also comply with web accessibility standards to accommodate users with disabilities. Additionally, the website will be limited to the features provided by HTML, CSS, JavaScript, and PHP, which may impose certain technical constraints.

**2.5 ASSUMPTIONS AND DEPENDENCIES**

* It is assumed that users have reliable internet access and are familiar with basic web navigation. The website will rely on GitHub for version control and collaboration, which means that all development and updates will be managed through this platform. Additionally, the website will depend on modern web browsers for optimal performance and user experience.

**3. SPECIFIC REQUIREMENTS**

**3.1 EXTERNAL INTERFACE REQUIREMENTS**

**3.1.1 User Interfaces**

* The user interface will be designed to be intuitive and user-friendly, with clear navigation menus, accessible buttons, and responsive design elements. The layout will be consistent across all pages, ensuring users can easily find the information they need.

**3.1.2 Hardware Interfaces**

* The website will be accessible on standard devices such as desktops, laptops, tablets, and smartphones. No specific hardware interfaces are required beyond standard web access.

**3.1.3 Software Interfaces**

* The website will be compatible with modern web browsers (e.g., Chrome, Firefox, Safari, Edge) and will utilize standard web technologies (HTML, CSS, JavaScript, PHP) for development.

**3.1.4 Communications Interfaces**

* The website will communicate with users via email for registration confirmations, event updates, and notifications. It will also support secure HTTPS connections to ensure data privacy and security.

**3.2 FUNCTIONAL REQUIREMENTS**

**3.2.1 Event Creation**

* Organizers must be able to create events by filling out a form that includes fields for event name, date, time, location, description, and image uploads.

**3.2.2 Event Registration**

* Users must be able to register for events by providing their name, email, and any additional required information. Confirmation emails should be sent upon successful registration.

**3.2.3 Dashboard**

* Administrators must have access to a dashboard that displays event statistics, user registrations, and engagement metrics.

**3.2.4 Admin Page**

* Admins must be able to manage user accounts, edit or delete events, and send bulk notifications to users.

**3.2.5 Login/Signup**

* Users must be able to create accounts, log in, and recover passwords securely.

**3.2.6 Event Venue Information**

* The website must provide detailed information about event venues, including maps, directions, and accessibility options.

**3.5 NON-FUNCTIONAL REQUIREMENTS**

**3.5.1 Performance**

* The website should load within 3 seconds on standard broadband connections.

**3.5.2 Reliability**

* The website should have an uptime of 99.9% to ensure availability for users.

**3.5.3 Availability**

* The website should be accessible 24/7, with scheduled maintenance communicated in advance.

**3.5.4 Security**

* User data must be protected through encryption and secure authentication methods.

**3.5.5 Maintainability**

* The codebase should be well-documented to facilitate future updates and maintenance.

**3.5.6 Portability**

* The website should be easily deployable on different hosting platforms without significant changes to the codebase.

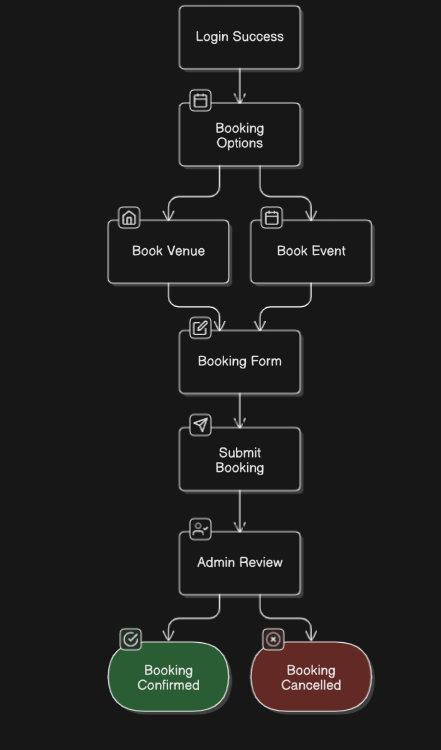
**3.7 DESIGN CONSTRAINTS**

* The website must adhere to web standards and best practices to ensure compatibility across different browsers and devices. This includes following HTML5 and CSS3 standards, ensuring responsive design, and implementing accessibility features to accommodate users with disabilities.

**3.9 OTHER REQUIREMENTS**

* A user feedback mechanism will be implemented to gather insights from both event organizers and attendees. This feedback will be used for continuous improvement of the website, allowing for updates and enhancements based on user experience and suggestions.

**4.1 DATA FLOW DIAGRAMS (DFD)**



**5. GITHUB LINK**

* The GitHub repository for the WIXVENT project can be found at: [mdnaseeransari/EventManagement](https://github.com/mdnaseeransari/EventManagement/tree/master)

**6. DEPLOYED LINK**

* Not applicable as the site is not hosted at this time. Future deployment plans will be documented once hosting arrangements are made.