Event Management Website

Software Requirements Specification

<01-04-2024>

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Submitted To: Arwinder Dhillon Ma’am

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2024

Table of Contents

1. Introduction

1.1 Purpose

This Software Requirements Specification (SRS) document aims to provide a comprehensive outline of the requirements and specifications for the development of an event management website. It serves as a guiding document for software engineers tasked with designing and implementing the software product described herein. Additionally, it aims to ensure alignment between stakeholders and development teams by clearly defining the goals, objectives, and functionalities of the website.

Intended Audience:

The intended audience for this SRS includes software engineers, developers, project managers, quality assurance professionals, stakeholders, and any other individuals involved in the design, development, and testing of the event management website.

1.2 Scope

Software Product:

The software product to be produced is a event management website,built using HTML, CSS, and JavaScript.

Functionality:

The website enables users to explore and book various events, including conferences, seminars, workshops, and social gatherings.
It features a user-friendly interface for easy event discovery, registration, and ticket purchasing.
Users can create accounts, manage their profiles, and view their event history.

Non-functionality:

The website does not include features such as live streaming of events, social media integration for event promotion, or event feedback and rating systems.
It does not support multiple languages or currency options.

Application:

The event management website aims to provide users with a seamless and efficient platform for discovering and booking a wide range of events. Its key objectives include:
Offering a diverse selection of events for online booking.
Simplifying the event registration and ticket purchasing process.
Enhancing user engagement through intuitive design and navigation.

1.3 Definitions, Acronyms, and Abbreviations

This subsection provides definitions for terms, acronyms, and abbreviations used throughout the SRS document. Key definitions include:

HTML: Hypertext Markup Language

CSS: Cascading Style Sheets

JavaScript: A programming language used to create interactive effects within web browsers.

1.5 Overview

Content Overview:

The rest of the SRS document is organized into sections that detail specific aspects of the event management website, including requirements, external interfaces, functional and non-functional requirements, design constraints, and analysis models.

Organization:

The SRS is structured in a logical manner, starting with an introduction and proceeding to define the purpose, scope, definitions, and overview of the document.
Subsequent sections delve into specific requirements and specifications, providing a comprehensive guide for software engineers involved in the development process.

2. General Description

2.1 Product Perspective

The event management website operates within the realm of digital platforms facilitating event organization and participation. While it functions independently, it's part of the larger landscape of online event management solutions. In contrast to traditional event planning methods, it offers the convenience of handling event-related tasks remotely. However, it faces competition from similar platforms concerning user engagement, event diversity, and organizational efficiency of platforms in terms of user experience, product variety, and deliveryefficiency.

2.2 Product Functions

<u>The primary functions of the event management website encompass:</u>

1) User Key functionalities of the event management website encompass:
2) User registration and authentication
3) Event browsing and searching
4) Registration and ticket purchasing
5) Management of event registrations (e.g., editing details, canceling registrations)
6) Creation and management of user profiles
7) Communication of event details and updates
8) Integration of event-related documents (e.g., agendas, speaker profiles)
9) Generation and distribution of event-related notifications

2.3 User Characteristics

The user base of the event management website exhibits diverse demographics:

1. Age: Spanning from young professionals to retirees interested in attending various events.
2. Technical proficiency: Users possess varying levels of familiarity with digital platforms and event registration processes.
3. Geographical diversity: Users hail from regions where events are hosted or where virtual participation is possible.
4. Professional diversity: Participants represent a range of industries and fields, each with specific event interests and requirements.
5. These characteristics inform decisions regarding user interface design, accessibility features, and communication strategies.

2.4 General Constraints

Constraints affecting the website's design and operation encompass:

1. Compatibility: Ensuring compatibility with commonly used web browsers and devices (e.g., Chrome, Safari, mobile devices).
2. Security: Implementation of robust security measures to safeguard user data and payment information.
3. Regulatory compliance: Adhering to legal frameworks governing data privacy, consumer protection, and event

management practices.

4. Legal regulations: Adhering to data protection laws, consumer rights,and e-commerce regulations in relevant jurisdictions.

2.5 Assumptions and Dependencies

Assumptions and dependencies impacting the requirements outlined in the SRS include:

1. Availability of essential web development tools and frameworks (e.g., HTML, CSS, JavaScript libraries).
2. Reliable internet connectivity for users accessing the website and participating in events.
3. Integration with third-party payment processors for handling ticket sales and transactions.
4. Ongoing support and maintenance of external APIs used for event organization and communication purposes.
5. Potential changes to these assumptions and dependencies may necessitate revisions to the SRS to ensure alignment with evolving project needs and constraints.

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

The user interface of the event management website will prioritize ease of use and accessibility for users of all technical proficiencies. Key interface components include:

- Event Listings: A central area where users can browse and search for upcoming events, categorized by type, date, and location.
- User Authentication: Secure login and signup interfaces allowing users to access personalized features and manage their event registrations.
- Event Details: Detailed event pages displaying essential information such as event descriptions, schedules, speakers, and ticket availability.
- Registration and Ticketing: Intuitive interfaces for registering for events, selecting ticket types, and completing payment transactions.
- User Profiles: Personalized user profiles where attendees can view their event history, manage registrations, and update their preferences.

3.1.2 Hardware Interfaces

The event management website will be accessible across a range of devices, including desktop computers, laptops, tablets, and smartphones. It will adapt to various screen sizes and resolutions to ensure a consistent user experience.

3.1.3 Software Interfaces

The website will be developed using HTML, CSS, and JavaScript for the front-end, ensuring compatibility with modern web browsers and devices. Server-side scripting languages such as PHP may be utilized for dynamic content generation and database interactions.

3.1.4 Communications Interfaces

The Communication between the website and users will occur over standard HTTP/HTTPS protocols, ensuring secure data transmission. Integration with third-party APIs may be utilized for payment processing, email notifications, and social media sharing functionalities.

3.2 Functional Requirements

3.2.1 Product Exploration

3.2.1.1 Introduction

The event exploration functionality enables users to discover and explore various events available on the platform.

3.2.1.2 Inputs

Users navigate through event listings, search for specific events, or filter events based on criteria such as date, location, or category.

3.2.1.3 Processing

The website fetches and displays relevant event listings based on user inputs, preferences, and search queries.
Filtering and sorting algorithms organize events based on relevance, popularity, and proximity to the user's location.

3.2.1.4 Outputs

The website presents event listings in a visually appealing and informative layout, including event titles, descriptions, dates, locations, and ticket availability.
Users can view detailed event information, speaker profiles, agendas, and venue details before making registration decisions.

3.2.1.5 Error Handling

If no events match the user's search criteria, the website displays a message indicating no results found.
Error messages are provided for invalid inputs, failed event retrievals, or technical issues, guiding users on corrective actions.

3.2.2 Ticket Management

3.2.2.1 Introduction

The registration and ticketing functionality enables users to register for events, select ticket types, and complete payment transactions.

3.2.2.2 Inputs

1) Users select events of interest .
2) Users choose ticket types.
3) User enter required registration details such as name, email, and payment information.

3.2.2.3 Processing

The website validates user inputs, checks ticket availability, and calculates total costs based on selected ticket types and quantities. Payment transactions are securely processed through integrated payment gateways, with confirmation emails sent upon successful registration.

3.2.2.4 Outputs

Users receive registration confirmation emails containing event details, ticket information, and instructions for accessing the event.
Registered users can view and manage their event registrations through their user profiles, including ticket downloads and event updates.

3.2.2.5 Error Handling

If registration details are incomplete or incorrect, the website prompts users to correct errors before proceeding.
Error messages are provided for payment failures, sold-out events, or other registration issues, guiding users on resolution steps.

3.5 Non-Functional Requirements

3.5.1 Performance

The website shall load within 3 seconds on standard internet connections to provide a seamless user experience.
Event search and retrieval operations shall be completed within 1 second to ensure quick access to event information.

3.5.2 Reliability

The website shall maintain a system uptime of at least 99.9% to ensure availability and reliability for users.

3.5.3 Availability

The website shall be accessible 24/7, with minimal scheduled maintenance windows communicated to users in advance.

3.5.4 Security

User data, including login credentials and payment information, shall be encrypted using industry-standard encryption algorithms to ensure data security.

The website shall implement measures to prevent unauthorized access, such as CAPTCHA verification and account lockout mechanisms.

3.5.5 Maintainability

The website shall be built using modular and well-documented code to facilitate future updates, enhancements, and maintenance tasks.

3.5.6 Portability

The website shall be compatible with a wide range of devices and screen sizes, ensuring consistent user experiences across different platforms.

3.7 Design Constraints

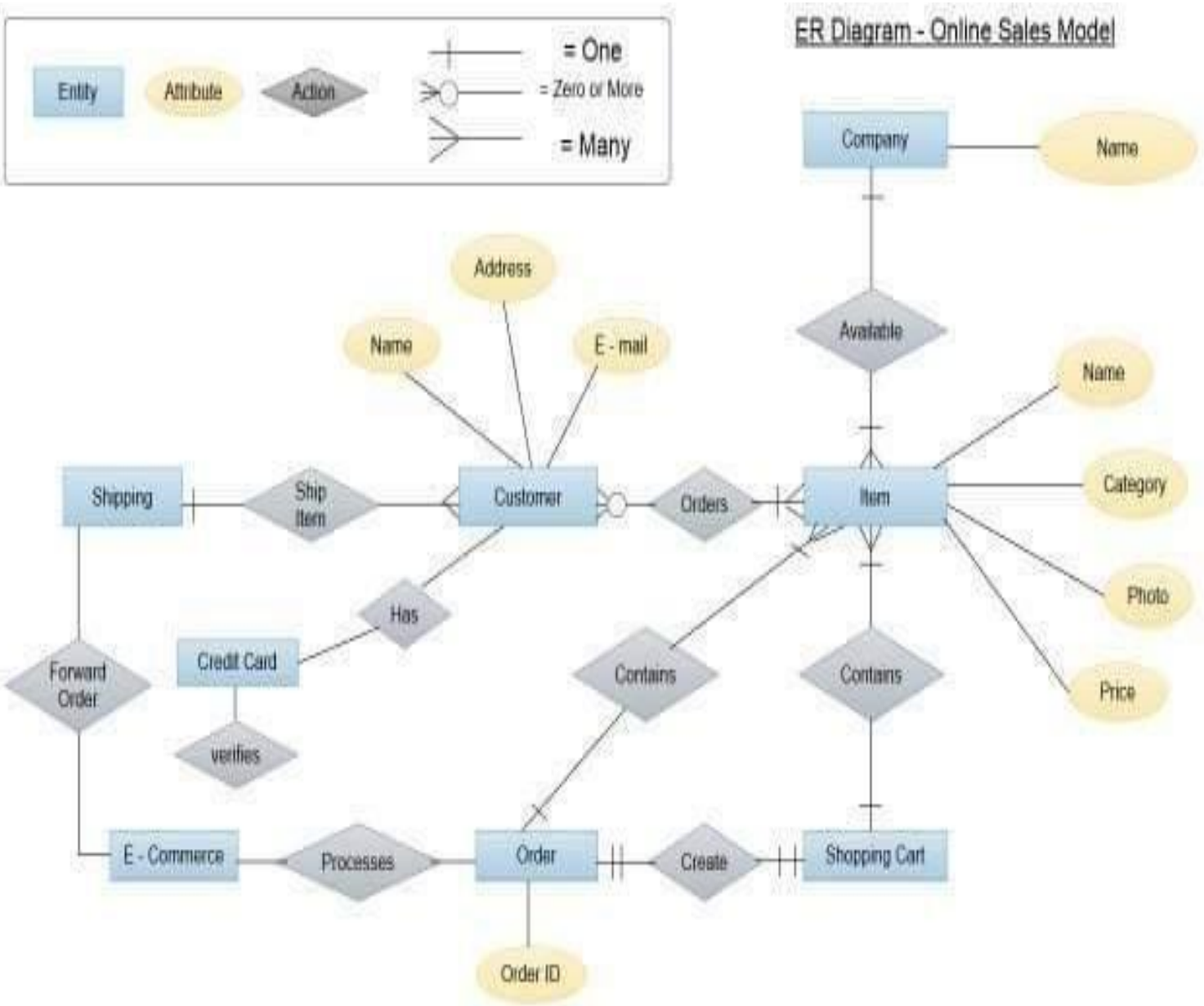
The website design shall comply with web accessibility standards (e.g., WCAG) to ensure usability for users with disabilities.

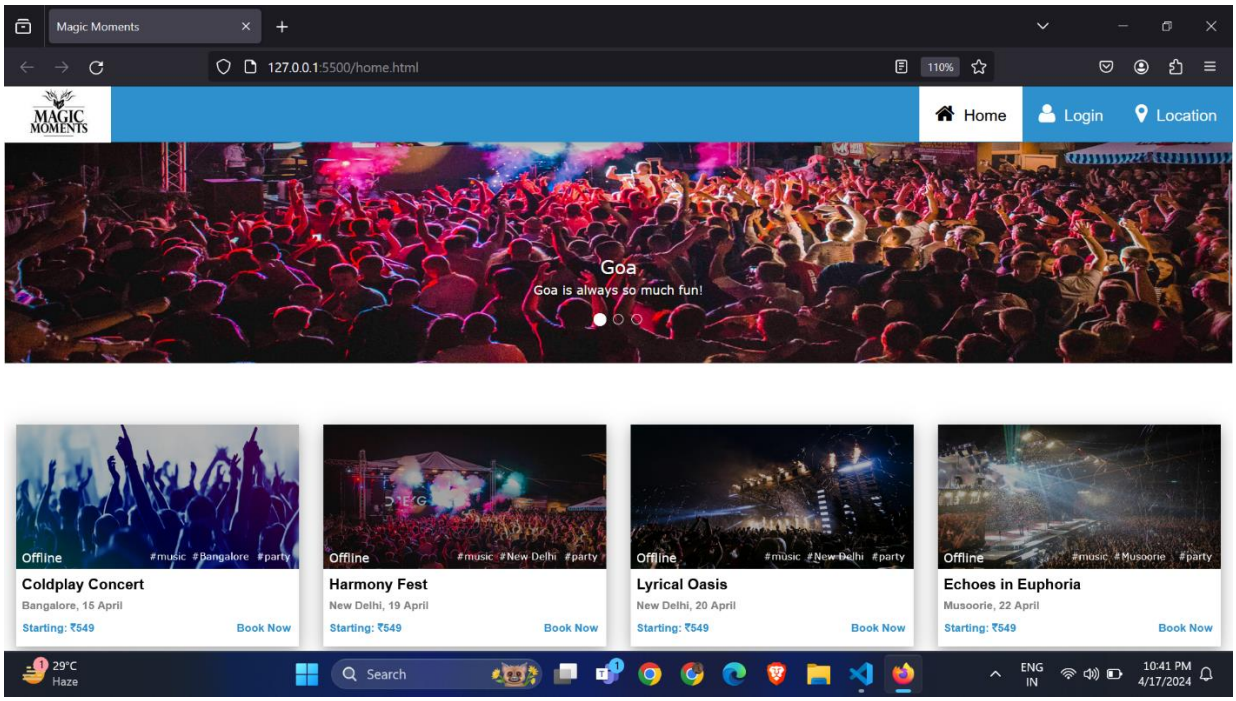
The website shall adhere to branding guidelines and design aesthetics specified by the client or stakeholders.

3.9 Other Requirements

The website shall comply with relevant legal regulations and standards for e-commerce websites, including data protection laws and consumer rights regulations.

4. Data Flow Diagram(DFD)

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Starting: ₹549
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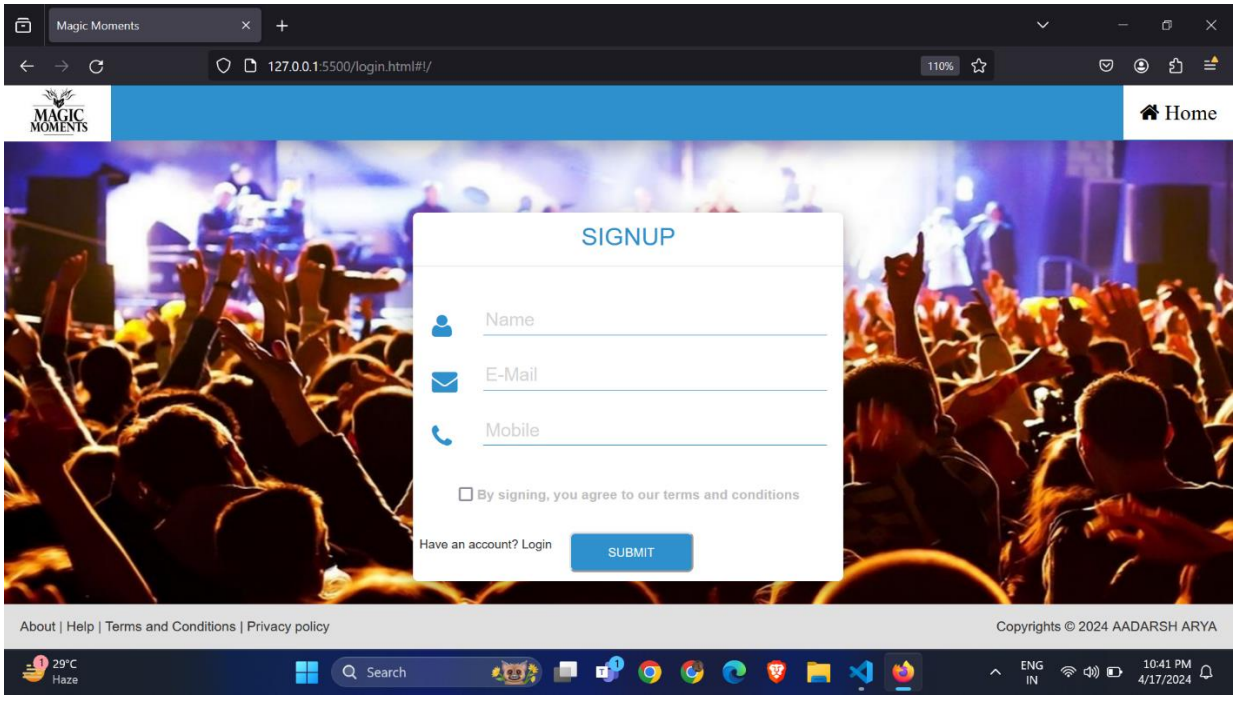
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Mobile
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Have an account? Login
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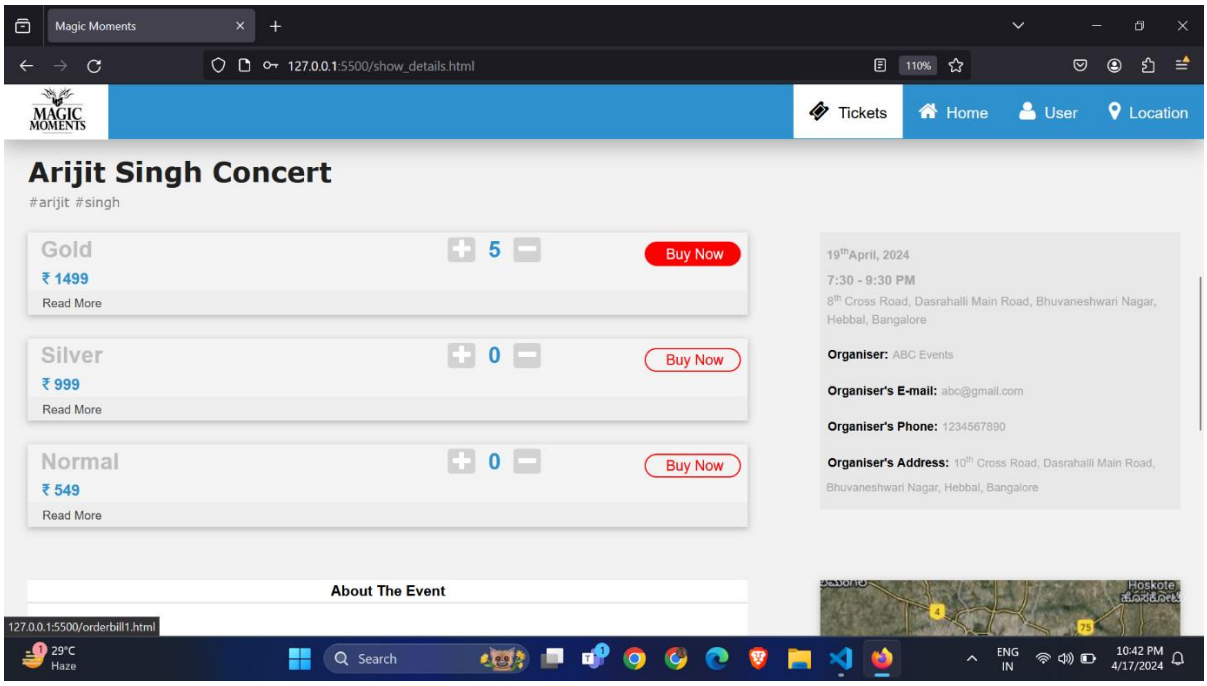
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Read More
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₹ 999
Read More
0
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₹ 549
Read More
0
Buy Now
19th April, 2024
7:30 - 9:30 PM
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Organiser: ABC Events
Organiser's E-mail: abc@gmail.com
Organiser's Phone: 1234567890
Organiser's Address: 10th Cross Road, Dasrahalli Main Road, Bhuvaneshwari Nagar, Hebbal, Bangalore
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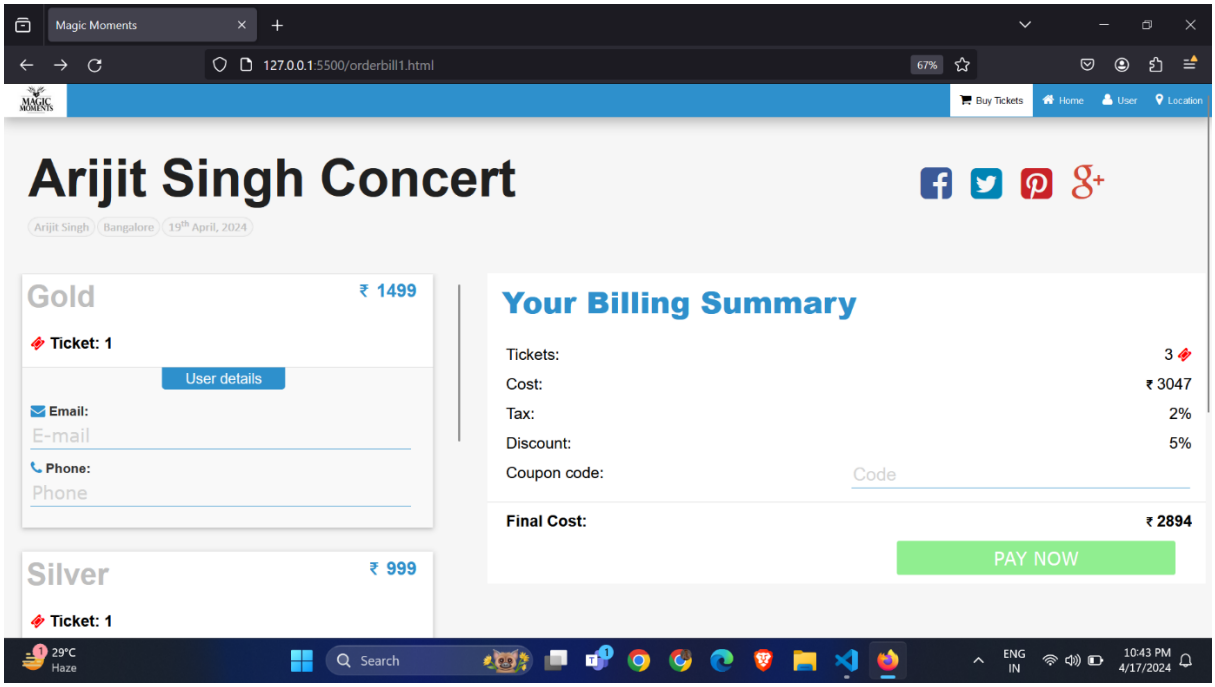
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Bangalore
19th April, 2024
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Phone:
Phone
Silver
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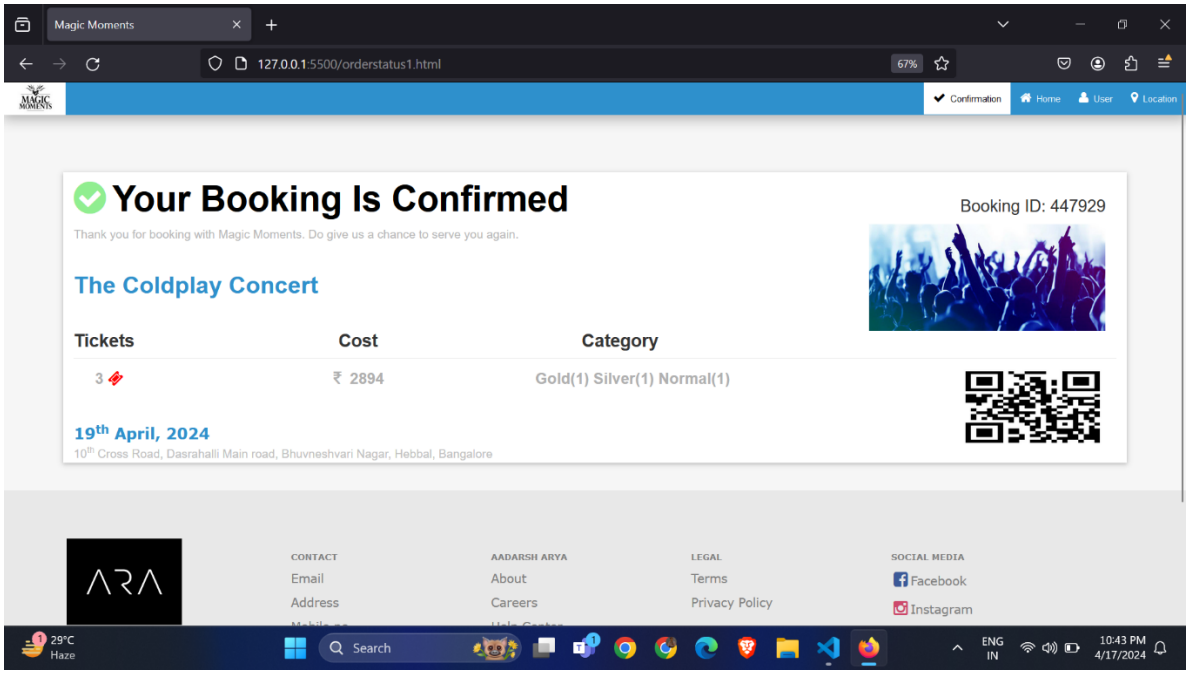
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Tickets
Cost
Category
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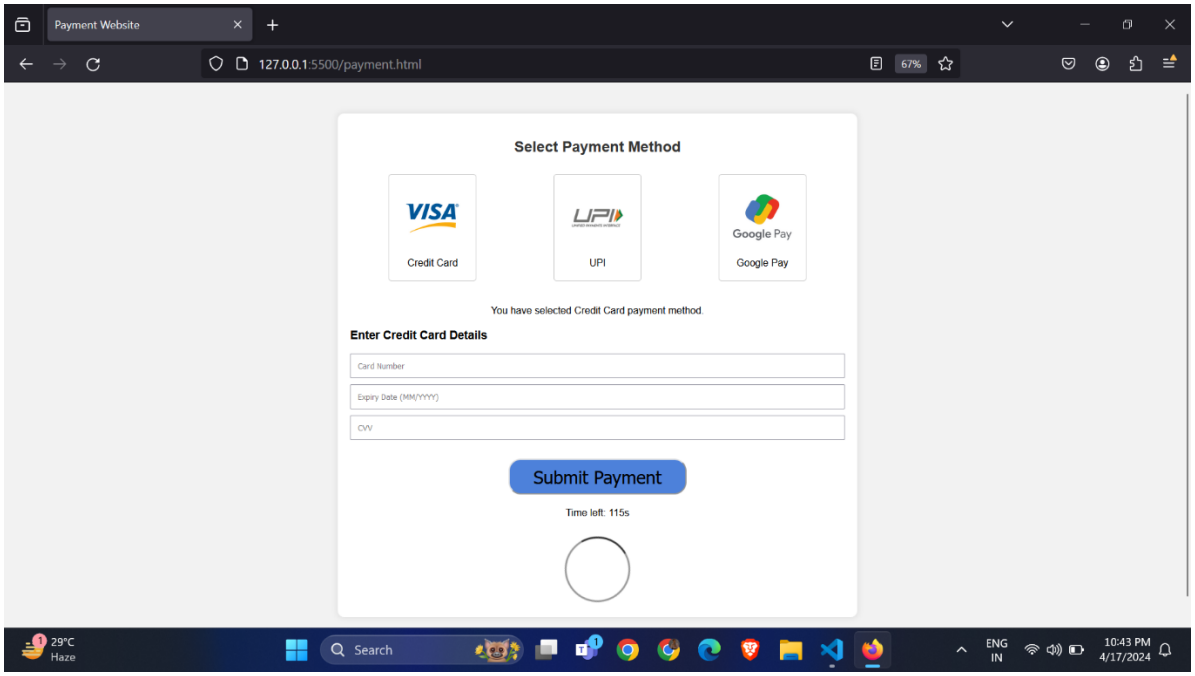
4/17/2024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VISA
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UPI
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Google Pay
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CVV
Submit Payment
Time left: 115s
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5. Git-Hub Link

https://github.com/Aadarsh-Rupam-Arya/Event-management-website.git