A
Project Report
On
"Open Source Weekend (OSW)"

(CE356 - Software Group Project-III)

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Chandubhai S. Patel Institute of Technology (CSPIT)
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At: Changa, Dist: Anand, Pin: 388421.
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CERTIFICATE

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To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred by the examiner(s).

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CHAPTER – 01
INTRODUCTION

1.1   User Story

- As an event organizer, I want to generate a report that provides details about the number of attendees who registered for my event.
- As an event organizer, I want to view a report that lists the attendees' names and email addresses for my event, so I can manage check-in and communicate with them.
- As a data analyst, I want access to a report that provides insights into event trends, such as the most popular event categories, geographic distribution of events, and attendance patterns.
- As a user interested in attending events, I want to be able to easily browse and search for events on the platform, so I can discover events that match my interests and schedule.
- As an administrator, I want to set role-based permissions to control who can access and generate specific reports to ensure data security.

1.2   Purpose

The primary purpose of the OSW project is to develop a robust and user-friendly open source projects and any kind of tech events registration Software that empowers the developers for finding the exciting events and projects from our website and lets them be a part of it and also they can discuss about any of the topic in our common chat also.

Key Objectives of the Purpose:

Explore Exciting Events and Projects: Provide a platform where developers can discover a wide range of exciting open source events and projects.

Participation and Collaboration: Enable developers to join and contribute to open source projects and events directly from the website.

Community Interaction: Foster a sense of community by allowing developers to engage in discussions, share insights, and collaborate on various topics using a common chat feature.

Streamlined Registration: Simplify the registration process for both events and projects, making it easy for developers to get involved.

Empowerment: Empower developers to actively participate in the open source community, enhance their skills, and contribute to meaningful projects.

1.3 Scope

The scope of the OSW (Open Source Weekend) project encompasses the development of a user-friendly online platform that facilitates the discovery, registration, and active participation of developers in a wide range of open source projects and events. It aims to foster a vibrant and collaborative developer community while providing accessible and real-time information on relevant open source opportunities. It encompasses the following key

Features and functionalities:

Project and Event Discovery:

- Browse and search for a diverse range of open source projects and events.
- Access detailed information about each project or event, including descriptions, objectives, and participating organizations.

User Registration and Profiles:
- Register as a developer and create a personalized user profile.
- Maintain a record of past and upcoming project involvements and event participation.

Event Registration and Participation:
- Easily register for open source events, workshops, and webinars.
- Receive event notifications and reminders.

Project Collaboration:
- Join open source projects of interest.
- Collaborate with project teams, contribute to code repositories, and track progress.

Discussion Forum:
- Engage in discussions with the developer community through a chat or forum feature.
- Share insights, ask questions, and seek assistance.

User-Friendly Interface:
- Design an intuitive and easy-to-navigate user interface.
- Ensure accessibility and responsiveness across various devices and browsers.

Tech Blog Posts:
- Explore a collection of tech blog posts covering various topics, including programming languages, development tools, best practices, and industry trends.
- Read articles authored by fellow developers and experts in the field.
- Search and filter blog posts based on categories or keywords of interest.

1.4 Overview

In the digital age, connecting with like-minded individuals, sharing experiences through blogging, and seamlessly managing events are essential aspects of our social lives. Our project is an all-encompassing platform designed to cater to these needs and more, offering a one-stop solution for event management, community engagement, and content creation.

Key Features:

- **Event Management**: Our platform's core strength lies in its comprehensive event management capabilities. Event organizers can effortlessly create, promote, and manage events of all sizes, complete with ticketing, registration, and reporting tools.
- **Community Chat Forums**: Connect with a thriving community of individuals who share your interests. Engage in real-time discussions, seek advice, and foster connections within specialized chat forums.
- **Blogging and Content Creation**: Share your thoughts, experiences, and expertise through our integrated blogging feature. Publish and promote your articles, reaching a wider audience within our community.
- **Customization:** Tailor your experience to your preferences. Customize chat forums, personalize blog layouts, and even design event pages to match your unique style.
- **User-Friendly Interface**: Enjoy an intuitive and user-friendly platform that ensures seamless navigation, whether you're hosting an event, participating in a discussion, or publishing a blog post.
- **Accessibility**: Our commitment to accessibility ensures that every user, regardless of their abilities, can fully engage with our platform.

CHAPTER – 02
OVERALL DESCRIPTION

2.1 Product Perspective

"Open Source Weekend (OSW)" is an innovative and self-contained software solution tailored to the needs of open-source enthusiasts and contributors. Designed with a user-centric approach, OSW empowers developers, contributors, and event organizers by providing a dedicated platform to promote, participate in, and manage open-source events.

Key Features and Functionalities:

1. **Event Promotion**: OSW serves as a hub for open-source event promotion, facilitating the discovery of events for developers and contributors. Event organizers can effortlessly create, showcase, and manage their open-source events.

2. **Community Engagement**: The platform fosters community engagement through real-time chat forums and discussions. Open-source enthusiasts can connect, collaborate, and share knowledge, strengthening the open-source ecosystem.

3. **Blogging and Content Sharing**: OSW offers a built-in blogging feature, enabling users to publish articles, share insights, and contribute to the open-source community's knowledge base.

4. **User-Friendly Interface**: With a focus on user-friendliness, OSW provides an intuitive interface. Navigating events, engaging in discussions, and publishing content are seamless and hassle-free experiences.

5. **Accessibility**: OSW is committed to inclusivity and accessibility. The platform is designed to be accessible to users of all abilities, promoting equal participation in open-source activities.

OSW's unique blend of event management, community engagement, and content sharing positions it as a valuable addition to the open-source ecosystem. It complements existing open-source initiatives by providing an integrated solution that simplifies event organization, fosters collaboration, and enhances knowledge sharing. As OSW continues to evolve, it promises to become an indispensable platform for open-source enthusiasts, contributors, and event organizers, contributing to the growth and success of the open-source community.

2.2 Product Functions

Event Management:

- Event Creation: Event organizers can create detailed event listings, including event names, dates, times, locations, descriptions, and ticketing options.
- Event Promotion: Event organizers can promote their open-source events within the OSW platform, making them easily discoverable by interested participants.
- Registration and Ticketing: Users can register for events and purchase tickets, with options for secure online payment processing.
- Event Reporting: Event organizers can access reports on event attendance, ticket sales, and other key metrics to assess event performance.

Community Engagement:

- Chat Forums: Real-time chat forums enable users to engage in discussions, share knowledge, seek advice, and connect with like-minded open-source enthusiasts.
- User Profiles: Users can create profiles with personal information, including their interests and contributions to the open-source community.
- Community Building: The platform fosters a sense of community by connecting individuals with similar interests and encouraging collaboration.

Content Creation and Sharing:

- Blogging Feature: Users can publish blog posts on open-source topics, sharing insights, tutorials, and project updates with the community.

Resource Library:

- Curated Collection: OSW hosts a curated resource library of open-source projects, offering a wealth of valuable resources for developers, contributors, and enthusiasts.
- Project Discovery: Users can explore, access, and contribute to a wide range of open-source initiatives, enhancing their knowledge and skills.
- Contribution Opportunities: The resource library highlights open-source projects seeking contributions, facilitating engagement and collaboration.

User-Friendly Interface:

- Intuitive Design: The platform offers an intuitive and user-friendly interface, ensuring that users can easily navigate and interact with events, discussions, blog posts, and the resource library.
- Mobile Accessibility: The platform is accessible on various devices, including mobile phones and tablets, to accommodate users on the go.

Accessibility and Inclusivity:

- Accessibility Features: OSW is designed to be accessible to users of all abilities, including those who use screen readers or require keyboard navigation.
- Inclusive Community: The platform fosters inclusivity, welcoming users from diverse backgrounds and skill levels within the open-source community.

The "Open Source Weekend (OSW)" project combines these functionalities to provide a comprehensive platform for open-source event management, community engagement, content creation, and access to a rich resource library. It simplifies the organization and participation in open-source events, encourages collaboration, and supports the growth and knowledge-sharing within the open-source community.

2.3 User Characteristics

1. **Open-Source Enthusiasts**: Many users will be passionate about open-source software and projects, and they may have varying levels of expertise in contributing to or using open-source software.

2. **Developers and Programmers**: Developers looking to contribute to open-source projects or seeking opportunities for collaboration will be a significant user group. They may have different programming skills and specialties.

3. **Event Organizers**: Event organizers who want to create and manage open-source events, such as hackathons, conferences, and workshops, will use the platform to reach their target audience.

4. **Community Builders**: Users who are interested in building and nurturing communities around specific open-source projects or technologies.

5. **Content Creators**: Users who want to share their knowledge, experiences, and insights through blog posts related to open-source topics.

6. **Novices and Learners**: Some users may be relatively new to open-source and are looking for guidance, resources, and opportunities to learn and get involved.

7. **Advanced Contributors**: Experienced contributors who want to lead or mentor others in open-source projects, or who are seeking more advanced opportunities within the community.

8. **Project Maintainers**: Maintainers of open-source projects who want to promote their projects, attract contributors, and engage with potential collaborators.

9. **Tech Enthusiasts**: Users with a general interest in technology and open-source, who may not be developers but want to explore and support open-source initiatives.

10. **Inclusivity Advocates**: Users who prioritize diversity and inclusivity within the open-source community and are interested in fostering an inclusive environment.

11. **Educators and Trainers**: Users who use open-source projects and events as part of educational or training programs.

12. **Parents and Guardians**: If the platform includes events and resources for students or young enthusiasts, parents or guardians may use it to support their children's involvement in open-source.

2.4 Constraints

Constraints represent limitations or restrictions that can affect the project's scope, schedule, and resources. For the OSW project, we have identified the following constraints:

Time Constraints: The development and deployment of the system must be completed within a specified timeframe to ensure it is ready and fully functional before the Open Source Weekend event begins.

Budgetary Constraints: The project must adhere to a predetermined budget to manage costs effectively and avoid excessive spending during development.

Technological Constraints: The system must be compatible with a wide range of web browsers and devices to ensure accessibility for a diverse user base.

Security Constraints: The platform must implement robust security measures to protect user data, prevent unauthorized access, and ensure secure online transactions, especially if payment integration is included.

Scalability Constraints: The system should be designed to handle a potentially large number of users and events during peak usage periods, ensuring optimal performance and responsiveness.

User Experience Constraints: The platform must be user-friendly and intuitive, catering to users of varying technical backgrounds and ensuring a positive experience throughout the event management process.

2.5 Assumptions and Dependencies

When planning and developing a project like "Open Source Weekend (OSW)," it's essential to identify assumptions and dependencies to manage potential risks and ensure a smooth execution. Here are some assumptions and dependencies you might consider:

Assumptions:

- User Engagement: Assuming that users will actively engage in creating and participating in open-source events, discussions, and content on the platform.

- Technical Infrastructure: Assuming the availability of a robust and scalable technical infrastructure to support the platform's growth, including servers, databases, and bandwidth.

- Content Quality: Assuming that users will contribute high-quality content, including blog posts and open-source project documentation.

- Moderation and Community Guidelines: Assuming that user interactions will be governed by clear and effective moderation policies and community guidelines to maintain a positive and respectful environment.

- User Onboarding: Assuming that users, especially newcomers, will be able to easily navigate the platform and understand its features, with minimal friction during onboarding.

- Event Attendance: Assuming that event organizers will actively promote their events and attract attendees, ensuring the success of the events hosted on the platform.

- Resource Library Contributions: Assuming that open-source projects will actively contribute to and maintain their entries in the resource library, keeping information up to date.

Dependencies:

- Third-Party Integrations: Dependencies on third-party services, libraries, or APIs, such as payment gateways for ticketing or email services for notifications.

- Content Creators: The availability of users willing to create and share content, such as blog posts and documentation, relies on individual contributions.

- Moderation Team: The platform's effectiveness in enforcing community guidelines and moderating content may depend on the availability and effectiveness of a moderation team.

- User Feedback: Dependencies on user feedback and user testing to identify and address usability issues and feature improvements.

- Open-Source Project Cooperation: Collaboration with open-source project maintainers and contributors to populate and maintain the resource library.

- Server and Hosting Providers: Dependence on hosting providers to ensure the reliability and scalability of the technical infrastructure.

- Event Organizers: The success of the event management aspect depends on event organizers actively using the platform for their event promotion and management.

- Compliance and Legal: Compliance with relevant laws and regulations, such as data privacy and intellectual property rights, may be a dependency.

Identifying these assumptions and dependencies early in the project planning process is essential for risk mitigation and successful project management. Regular monitoring and adaptation to changes in these factors will be crucial for the continued success of "Open Source Weekend (OSW)."

CHAPTER – 03
SPECIFIC REQUIREMENTS

3.1 Functional requirements

3.1.1   Event Management:

3.1.1.1 Function: View Upcoming Open Source Events

- Input: User's request for event information
- Output: Display a list of upcoming events, including webinars, workshops, and hackathons related to open source technologies.

3.1.1.2 Function: Event Registration
- Input: User's selection to register for a specific event
- Output: Register the user for the chosen event and generate a confirmation notification.

3.1.1.3 Function: Event Management for Organizers
- Input: Event organizer's access to the backend system
- Output: Enable event organizers to manage event details, schedules, registrations, and attendee information.

3.1.2   Community Forum:

3.1.2.1 Function: Participate in Open Source Discussions

- Input: User's engagement with the forum
- Output: Allow users to participate in discussions related to open source technologies and seek advice from experts.

3.1.2.2 Function: User-Friendly Forum Interface

- Input: User's interaction with the forum interface
- Output: Provide a user-friendly interface for users to easily post, reply to, and search for discussions.

3.1.2.3 Function: Moderation Capabilities for Moderators

- Input: Moderators' access to the forum backend
- Output: Enable moderators to manage and moderate content, user accounts, and discussions within the forum.

3.1.3   Resource Library:

3.1.3.1 Function: Access Diverse Collection of Open Source Resources

- Input: User's request for resource information
- Output: Provide users with access to a diverse collection of resources such as whitepapers, case studies, and tutorials on open source technologies.

3.1.3.2 Function: User Access Control for Resource Library

- Input: User's preferences or expertise level
- Output: Implement a user access control system in the library to manage access to specific resources based on user preferences or expertise.

3.1.3.3 Function: Resource Management for Administrators

- Input: Administrator's access to the resource library backend
- Output: Enable administrators to add, remove, and update resources within the library.

3.1.4   Team Management:

3.1.4.1 Function: Add New Team Members and Assign Roles

- Input: Administrator's request to add new team members and assign roles
- Output: Allow administrators to add new team members and specify their roles and permissions within the system.

3.1.4.2 Function: Mechanism to Remove Team Members

- Input: Administrator's decision to remove a team member
- Output: Provide a mechanism for administrators to remove team members from the system as needed.

3.1.4.3 Function: Access to Administrative Tools for Team Members

- Input: Team member's access to administrative functions
- Output: Grant team members access to relevant administrative tools and functions based on their assigned roles.

3.1.5   Speaker Management:

3.1.5.1 Function: Add and Invite Speakers for Events

- Input: Administrator's request to invite speakers for events
- Output: Enable administrators to add and invite speakers to participate in events.

3.1.5.2 Function: Accept or Decline Speaker Invitations

- Input: Speaker's invitation status (accept or decline)
- Output: Allow invited speakers to accept or decline the event invitation and provide relevant details if accepting.

3.1.5.3 Function: Remove Speakers from Events

- Input: Administrator's decision to remove a speaker from an event
- Output: Provide administrators with the ability to remove speakers from events if necessary.

3.1.6   Blog Management:

3.1.6.1 Function: Create and Publish Blog Posts

- Input: User's request to create and publish a blog post
- Output: Enable users to author and publish blog posts related to open source technologies.

3.1.6.2 Function: Review and Remove Blogs by Administrators

- Input: Administrator's review of blog content
- Output: Provide administrators with the capability to review and remove blogs that violate community guidelines.

3.1.6.3 Function: Interact with Blog Content

- Input: User's interaction with blog content (e.g., comments, likes)
- Output: Allow users to engage with blog content through comments and likes, fostering community interaction.

3.2 Non-Functional requirements

3.2.1. Usability:

- The platform should have an intuitive and user-friendly interface for easy navigation and engagement.
- Response times for accessing events, forum discussions, and resources should be quick to enhance user experience.

3.2.2. Security:

- The system should implement robust security measures to protect user data and prevent unauthorized access.
- Administrators should have secure authentication and authorization mechanisms.

3.2.3. Performance:

- The platform should be able to handle a large number of users simultaneously during peak times, ensuring smooth performance.
- The backend system should be optimized to efficiently manage event registrations and user interactions.

3.2.4. Reliability:

- The platform should have a high level of reliability and availability to ensure continuous access to users.
- Regular backups and data recovery mechanisms should be in place to prevent data loss.

3.2.5. Scalability:

- The system should be designed to accommodate future growth in terms of user base, events, and resources.
- Scalability measures should be in place to handle increasing demands and traffic.

3.2.6. Compliance:

- The platform should adhere to relevant laws, regulations, and data protection policies.
- Community guidelines and code of conduct should be clearly communicated and enforced.

3.2.7. Performance Monitoring:

- The system should have monitoring tools to track performance metrics and identify areas for improvement.
- Administrators should receive notifications for critical issues and potential system failures.
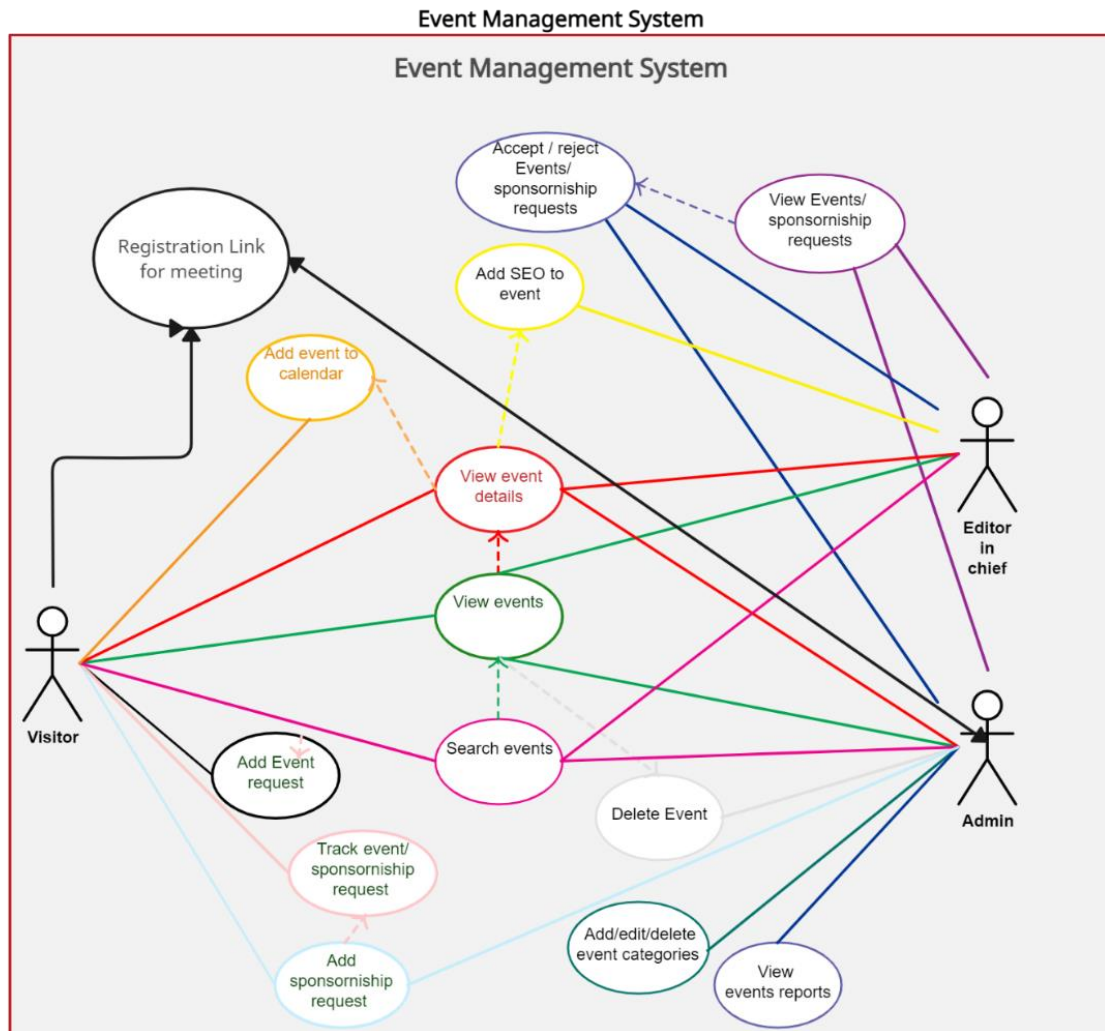
CHAPTER – 04
USE-CASE DIAGRAM

4.1 Use-case Diagram

Fig. 4.1 Use-case Diagram

CHAPTER – 05

DESIGN

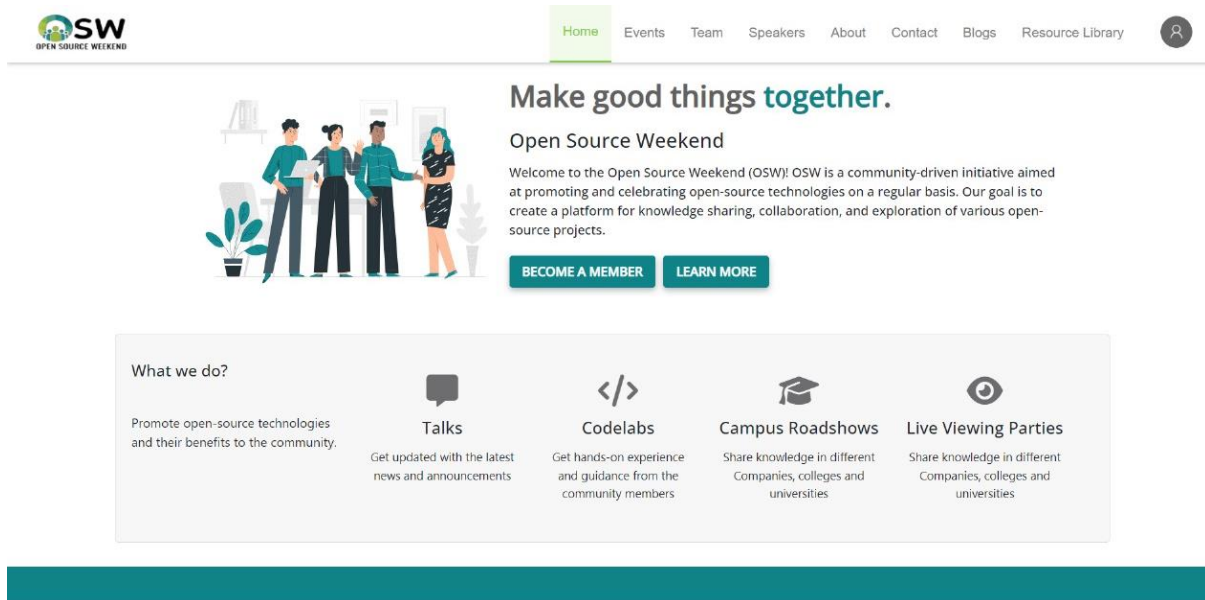# 5.1 Design of UI

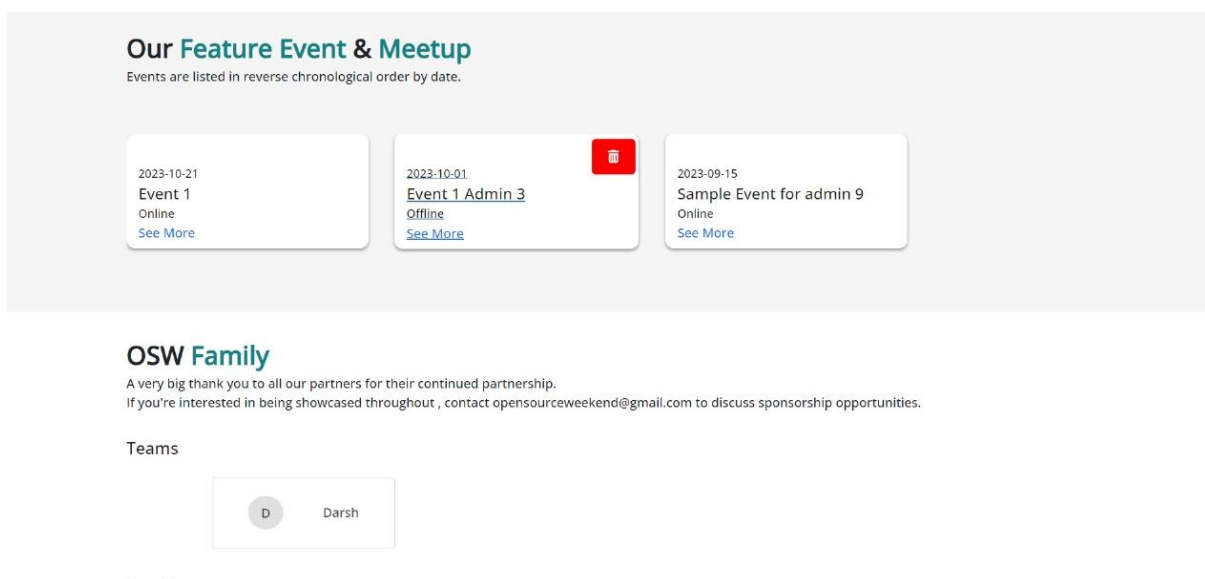## • Landing Page

Fig. 5.1.1 Landing page UI

• Event Page
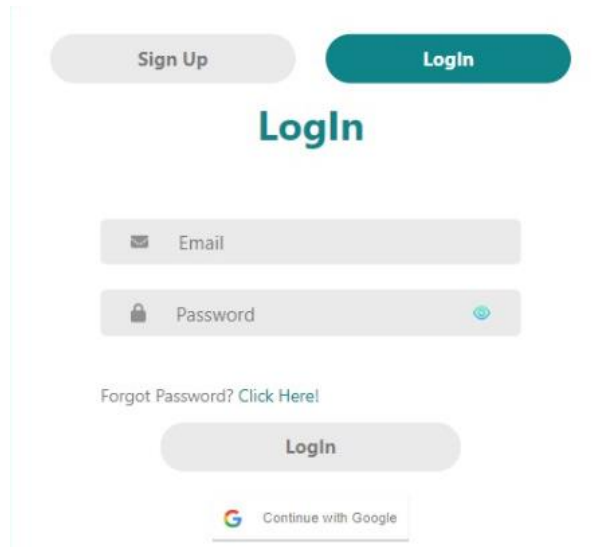
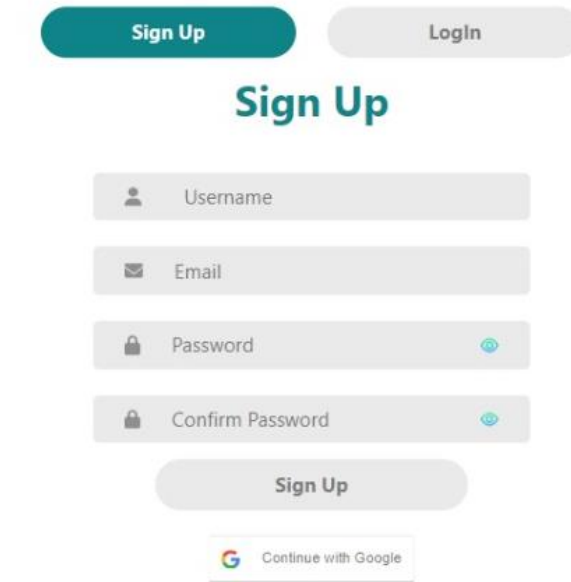Fig. 5.1.2 Event page UI

• **Login Page**

Fig. 5.1.3 Login page UI

• **Sign Up Page**

Fig. 5.1.4 Sign Up page UI

CHAPTER – 06
TESTING

6.1 Testing Strategy /Test Cases :

In this project unit testing was carried out and each section were tested one by one.

Module name : registration for company

Table 6.1.1 : registration for User

Sr. no.	Test case scenarios	Test case Name	Pre - condition	Testing Steps	Testing Data	Expected Result	Post Condition	Status
1	Any one or more than one field is empty from user name, Email, password	Empty field in user registration	Some field is empty	Enter all required values for test cases	Check weather any field is empty or not	Pop message that some field is empty	Give error in registration And pop message is shown	PASS
2	Enter user Name, Email, Password & confirm Password	User Registration	All field must be filled	Enter all required values for test cases	Valid Email id , user name and password should grater than length of 8	Pop up message – OTP sent to your email	OTP field is shown	PASS
					Invalid email and password should grater than	Give pop up that email is incorrect	Reload the register page with pop up message	PASS

				length of 8			
				User name and email is valid And password length is less than 8	Give pop up message password is too short	Reload the register page with pop up message	P A S S
3	Enter user Name, Email, Password & confirm Password	User Registration with existing email	All field must be filled	Enter all required values for test cases	Email id is already registered , valid user name and password should grater than length of 8	Give error message that company with this email id is already registered	Reload the register page with pop up message	P A S S
4	Enter company Name, company Email, Password & confirm Password & OTP	OTP verification while registration	All field must be filled	Enter all required values for test cases	Valid Email id , company name and password should greater than length of 8 And valid OTP	Redirect to home page	Give pop message registered successfully and redirect to home page	P A S S
					Valid Email id , company name and password should greater than length of 8 And Invalid OTP	Give error message that Invalid OTP	Resend OTP button shown and page is reloaded	P A S S

Module name : login for User

Table 6.1.2 : login for user

Sr. no.	Test case scenarios	Test case Name	Pre - condition	Testing Steps	Testing Data	Expected Result	Post Condition	Status
1	Enter email or password	Empty field check	Anyone or both field is empty	Enter all required values for test cases	Check weather any field is empty or not	Pop message that some field is empty	Give error in Login And pop message is shown	PASS
2	Enter Email and Password	Login of user	All field must be filled	Enter all required values for test cases	Email id is not registered and password is filled	Give error message that user with this email is not registered	Reload login page with pop up message	PASS
					Email id registered but password is invalid	Give pop up message that invalid password	Reload login page with pop up message	PASS
					Email id registered and password is valid	Pop up message successfully login	Redirect to home page	PASS

Module name : login for Admin

Table 6.1.3 : login for admin

Sr. no.	Test case scenarios	Test case Name	Pre - condition	Testing Steps	Testing Data	Expected Result	Post Condition	St At us
1	Enter email or password	Empty field check	Anyone or both field is empty	Enter all required values for test cases	Check weather any field is empty or not	Pop message that some field is empty	Give error in Login And pop message is shown	P A S S
2	Enter Email and Password	Login of admin	All field must be filled	Enter all required values for test cases	Email id is not registered and password is filled	Give error message that admin with this email is not registered	Reload login page with pop up message	P A S S
					Email id registered but password is invalid	Give pop up message that invalid password	Reload login page with pop up message	P A S S
					Email id registered and password is valid	Pop up message successfully login	Redirect to home page	P A S S

Module name : Add Event

Table 6.1.4 : Add event

Sr. no.	Test case scenarios	Test case Name	Pre - condition	Testing Steps	Testing Data	Expected Result	Post Condition	St At us
1	Enter event name, event description, event date, start time, end time, language language event poster, time Zone. event type, meet link, address, city, state, country, pin code, limit, socialmedia_links, event goals, event tags, hosted_by_user, speakers,	Empty field check for add event	User/Admin login and if user than user profile must be filled, must on add event page	Enter all required values for test cases	Check weather any field is empty or not	Pop message that some field is empty	Give error in add event And pop message is shown	P A S S

2	Enter event name, event description, event date, start time, end time, language language event poster, time Zone. event type, meet link, address, city, state, country, pin code, limit, socialmedia_links, event goals, event tags, hosted_by_user, speakers,	End time is before start time	User/Admin login and if user than user profile must be filled, must on add event page	Enter all required values for test cases	Check start and end date	Error message that end date is above start date	Give error in add event And pop message is shown	P A S S
3	Enter event name, event description, event date, start time, end time, language language event poster, time Zone. event type, meet link, address, city, state, country, pin code, limit, socialmedia_links, event goals, event tags, hosted_by_user, speakers,	Add event	User/Admin login and if user than user profile must be filled, must on add event page	Enter all required values for test cases	Check all field is properly filled or not	Pop up message – event added successfully	Successful message and redirect to blog page	P A S S

Module name : Add Blog

Table 6.1.5 : Add Blog

Sr. no.	Test case scenarios	Test case Name	Pre - condition	Testing Steps	Testing Data	Expected Result	Post Condition	St At us
1	Enter Blog title, Blog Description	Empty field check	User/Admin login and if user than user profile must be filled, must on add blog page	Enter all required values for test cases	Check weather any field is empty or not	Pop message that some field is empty	Give error in add blog And pop message is shown	P A S S
2	Enter Blog title, Blog Description	Add blog	User/Admin login and if user than user profile must be filled, must on add blog page	Enter all required values for test cases	Check all field is properly filled or not	Pop up message – blog added successfully	Successful message and redirect to blog page	P A S S

For Admins Only:-

Module name : Add Projects

Table 6.1.6 : Add Projects

Sr. no.	Test case scenarios	Test case Name	Pre - condition	Testing Steps	Testing Data	Expected Result	Post Condition	St At us
1	Enter Project title, Project Description, Project Tags, Project Links	Empty field check	Admin login add project page	Enter all required values for test cases	Check weather any field is empty or not	Pop message that some field is empty	Give error in add project And pop message is shown	P A S S
2	Enter Project title, Project Description, Project Tags, Project Links	Add Project	Admin login add project page	Enter all required values for test cases	Check all field is properly filled or not	Pop up message – project added successfully	Successful message and redirect to project page	P A S S

For Admins Only:-

Module name : Add Admin

Table 6.1.7 : Add Admin

Sr. no.	Test case scenarios	Test case Name	Pre - condition	Testing Steps	Testing Data	Expected Result	Post Condition	St At us
1	Enter New Admin email, Password, isSuperAdmin	Empty field check	Admin login and admin must be a super admin	Enter all required values for test cases	Check weather any field is empty or not	Pop message that some field is empty	Give error in add project And pop message is shown	P A S S
2	Enter New Admin email, Password, isSuperAdmin	Add admin	Admin login and admin must be a super admin	Enter all required values for test cases	Check all field is properly filled or not	Pop up message – admin added successfully	Successful message and redirect to home page	P A S S