IT314: Software Engineering

SRS for Project: Version 2

Group: 15 Conference Management System

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1. Introduction:

- In early March, the mentor TA for the group, Bhargav Dave, ceased to be the TA. Hence, it was then decided by the group to modify various aspects of the project. This meant that many features were changed. This effectively meant that a second version of the project has been implemented.

1.1 Purpose:

● For the second version of this project, there has been little change in the scope of the project. The name of this website has now become "**Open Conference Management System**".

● There are various Research and Innovation Institutes across the world that organize annual conferences for academic and research purposes.

● While organizing conferences, many aspects need to be kept in mind. Firstly, an announcement of the conference has to be made for interested participants. Next, the agenda and discussion flow must be chalked out and shared with participants.

● All across the globe, people need help knowing about the agenda of a particular conference, the schedule, the venue, and the registration procedure for the same.

● To solve the problems associated with organizing conferences, a website for conference management is software that helps organizations plan and manage events and conferences. There are several reasons why this website can be essential for organizing and managing conferences:

● **Efficient registration process:** It streamlines the registration process for attendees, making it easy and convenient for them to sign up and pay for the event.

● **Improved communication:** Organizers can communicate with attendees, presenters, and exhibitors efficiently and effectively, ensuring that everyone is up-to-date with the latest information.

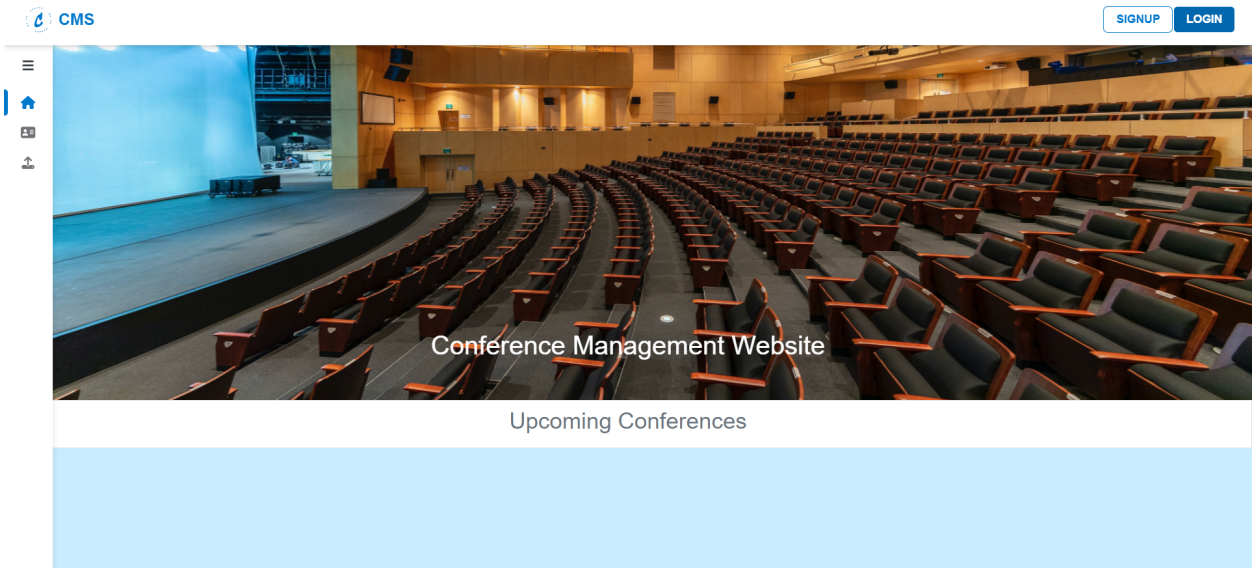
● **Easy scheduling:** It makes it simple to schedule sessions, meetings, and other events, reducing the time and effort required for manual scheduling.

● **Data tracking and analysis:** It provides organizers with real-time data on attendee registration, helping them make informed decisions and improve the overall conference experience.

● Overall, this website for conference management helps organizations **save time, resources, and money** while delivering a **seamless and high-quality conference experience** for attendees.

1.2 Scope:

● **Classic home page with navigation bar and footer:** The homepage will be uncluttered which would make it easy for the user to readily access the various features of the website.



Screenshot of the Homepage with the Navbar

● **Details of lecturers/speakers that are participating in the conference:** It is important for the user/ attendee to know the details of the speakers in order to know about their research fields.

● **Display the details about the sponsors of the event:** No organization can work smoothly without money. Hence, it is always better to have sponsors who have scientific temperament to sponsor this platform.

● **Display the social media handle of the organization:** The social media handles will be displayed in order to make the platform more known to the wider audience.

● **Schedule Timeline**: Gives a glimpse of the various meetings/ events that had occurred in the past.

● **Feedback system:** Feedback portal that will ask for feedbacks from the visitors about their experience on our website.

● **Archives section:** That stores data/details of previous years conference.

2. General Description:

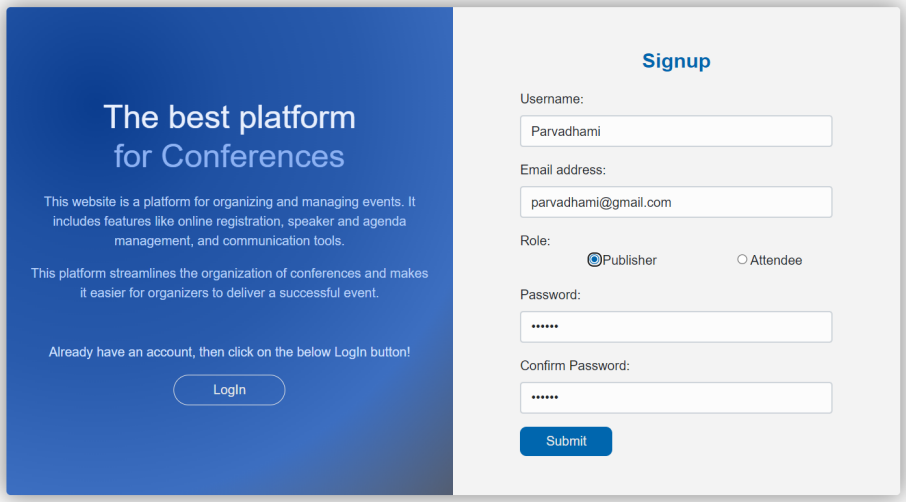
2.1. An overview:

- The ‘CMS’ or ‘Open Conference Management System’ will be a common platform to organize and manage conferences that are held for scientific/research purposes.
- The organizers can have their meeting put up on a schedule on the website. Then, the attendee will be able to register or cancel the registration for that particular event.
- The website shall have past data on these conferences along with the option for uploading research papers/ thesis for public view.
- Also , the website shall have a payment gateway for paying registration fees to organization with the help of online banking.

2.2. An Intended Audience:

- **Admin:** The admin will be the owner of the website, who would be granting permissions for organizing or attending conferences.

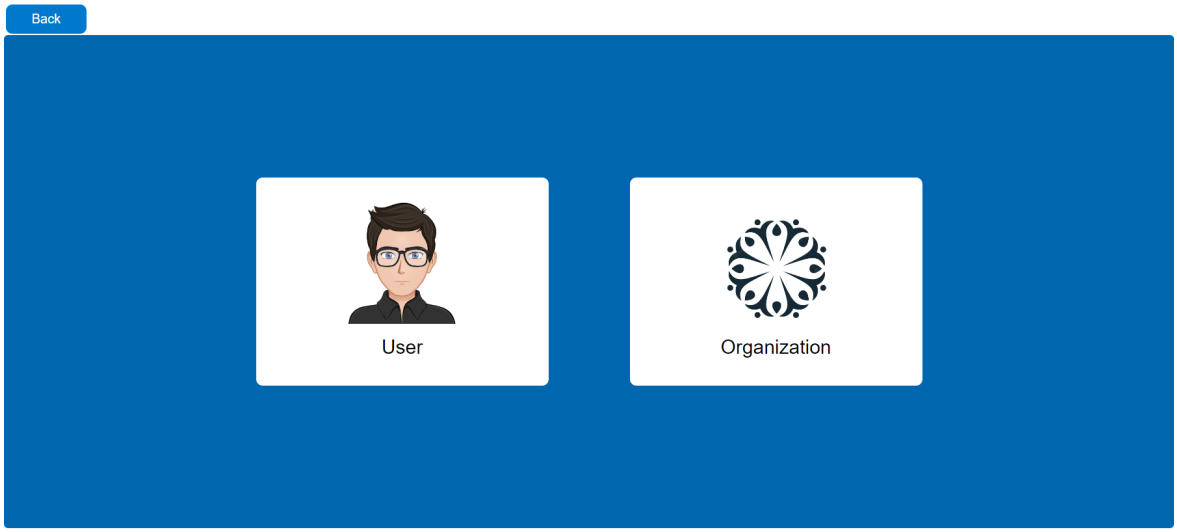
- **User:**
    a. **Organizer:** The one which shall be organizing the events/ conferences.
    b. **Researcher**: Any person who has been associated with writing any research paper or a thesis for a subject. These can upload their research papers on the website for public view.
    c. **Attendee:** The audience that is interested in attending any of those conferences. It includes students, teachers, professors, and anyone interested in the topic.



Screenshot of the Sign up Page

3. Functional Requirements:

- The website should give all information regarding the conference organization, like venue, schedule, timings, participants and roles.
- The website should give schedule information for all the events/sessions which are part of the conference.
- Details of lecturers/speakers that are participating in the conference.
- Detailed rules and regulations with a deadline for submitting a research paper in the conference.
- The user should be able to view previously uploaded research papers on the website.

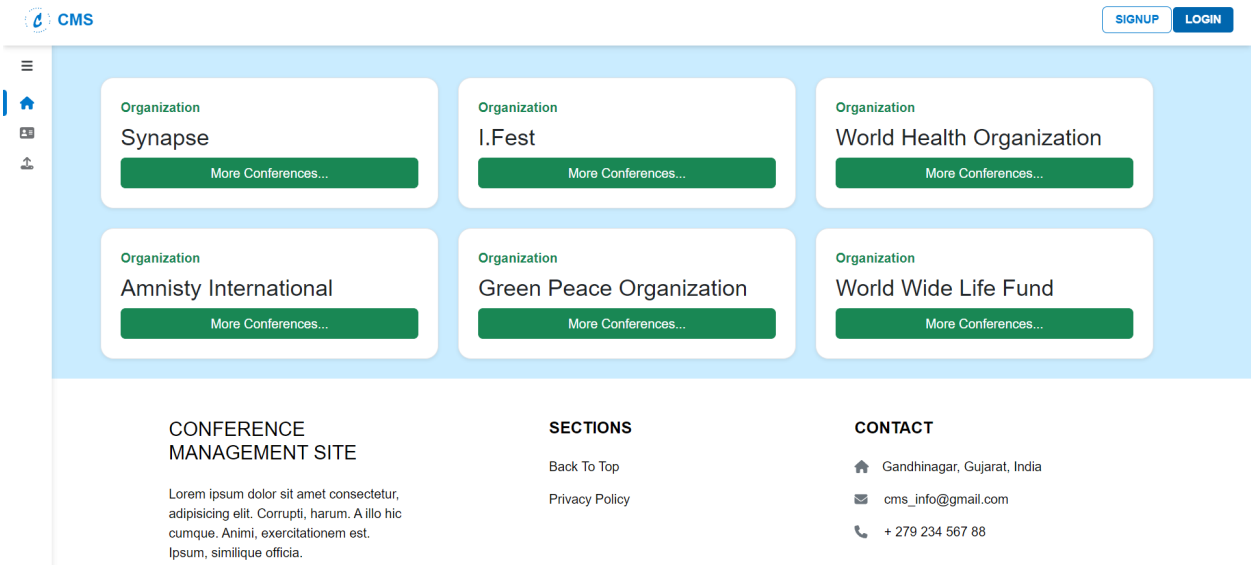


Screenshot of the User profile

- A website should have a **contact us** page providing all relevant mailing lists.

- Also, the details of all the coordinators/members of committees and organizations should be available.

- The organizations that organize the conferences should easily be able to see their past conferences.



Screenshot of the various conferences organised by various organizations

4. Non Functional Requirements:

- Display the timeline of the event to the user.

- The system should be user-friendly and easy to use.

- The system should be fast, responsive, and have low latency.

- The system should protect sensitive data and ensure the privacy of users.

- The system should be available 24/7 and have high uptime.

- The system should be maintainable and easy to update.

5. Interface Requirements :

- The website should include all the necessary details required for the organizing of the conferences. However, it should be decluttered so that the user can find the information easily.
- The website should also be loaded fast and should not take too long for uploading.
- The theme chosen for the website should be such that does not strain our eyes, and that whatever is written/mentioned can be read easily.
- The UI design of a website should be user friendly so users can easily interact with the website

6. Performance Requirements :

- The performance requirements include the user stories. I.e. what the user will want to have in the website

Front Card	Back of the card
As an **attendee** of the conference, I want all the details scheduled at least a week before the day the conference takes place.	● The schedule of all the conferences will be regularly uploaded/updated on the Website. A timeline will facilitate the attendee to view the details of the conference apriori.
As a **user**, I want to check out the current year's conference and all past years' conference details and proceedings.	● Provide year-wise conference and proceedings details to all the users. ● Home page of the site must be current year conference details.
As a **user**, I want to check out any research papers.	● Any kind of user can access all research papers.
As a **user**, I want to able to access website in	● Provide security to users so users can access website safely.

secure way	

As an **admin,** I want to see the data of all the users; and also be able to perform edit records, add new records, and delete record operations.	● Only the admin can see the admin user's information. ● Only one of the admins can edit, remove and add a new admin.
As an **admin**, I want to display the sponsor's logos on the site.	● Allocate some space for Sponsor's logos.
As an **admin**, I want to be able to make changes in the home page	● Only the admin can add, remove, edit, and set the visibility of the home page.
As an **admin**, I want to be able to make some changes in tabs visible on the site on the home page.	● The admin can edit, add, remove, and set the visibility of particular tabs.
As an **admin**, I want to be able to change publisher details on the site per year.	● Only the admin can add, remove, edit, and set the visibility of the publishers.
As an **admin,** I want to change the conference details.	● Provide some features so that admin can edit conference details.
As an **admin,** I want to make my website available 24x7 so that others can use it.	● Make a website in such a way that it has a high uptime.
As an **admin,** I want every past website linked to the current website, so I can get every past event data from there.	● Store past event data in the database. ● Every new year, link a new website to the past one.
As an **admin,** I want strong security for the admin page,	● Provide password facilities to the admin so that admin can set the password for security.

So that no one can hack into the system and temper the data.	● In case the admin can forget the password, then provide him forget password link through mail I so that he can set a new password.
As an **organizer,** I want to make a new conference So that others can participate.	● Provide some features so that organizer can make a new conference.

7. Design Constraints :

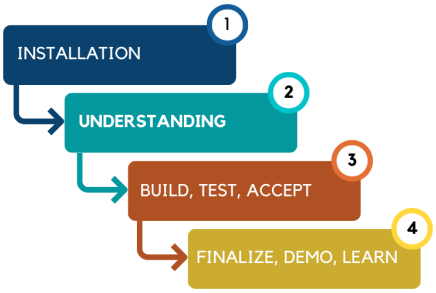
- For the second version the time left was lesser hence there were some functionalities that we had not been able to successfully implement.

- This includes:
    - **A payment gateway:** For registrations the users shall be directed to the Payment portal in order to pay the fees.

    - **An elaborate Feedback system:** The users or the visitors can rate and comment on the website's functionalities and the admin after viewing those can make required changes.

8. Preliminary Schedule :

Week	Sprint Planning	Acceptance
Week 4	(2nd March, 2023 to 9th March, 2023) ● Learning Django with help of tutorials for the backend implentation.	● For Backend portion to be implemented using Django.

Week 5	(13th March, 2023 to 16th March, 2023) ● Our TA, Bhargav Dave is no longer our mentor, hence the client has changed. ● The requirements too have some changes. ● Group meeting to discuss what changes to make.	● Now, that the mentor had left, the team was independent to decide to make changes in the website. ● **Acceptance criteria:** ○ Routing and some admin features in backend ○ Details of the conference to be shown to the user ○ Detailed schedule timeline ○ Feedback system for the user ○ Contact us page ○ Responsive Navbar ● **Build Sequence:** 
Week 6	(20th March, 2023 to 26th March, 2023) ● The group decided that each member will be designing the frontend of homepage.	● Acceptance criteria: ○ The homepage which is the most responsive. ○ Designing is good. ○ Should contain all required features
Week 7	(31st March, 2023) ● Meeting with our new mentor, Prof. Saurabh Tiwari to discuss the changes in the website as well as the software that was to be used.	● Prof. Saurabh accepts the changes. ● Includes the usage of NoSQLDB in place of Django for backend implementation.
Week 8	(3rd April, 2023 to 6th April, 2023) ● Mid-evaluation:	● The TAs agreed that as this was the second version of the project, there were some things

	• For the mid-evaluation of the project, the following things had been implemented
	  ○ Homepage
	  ○ Timeline page
	  ○ User Login portal
	  ○ Connection with MongoDB
	  ○ Organization backend
	  ○ User backend
		that had not been fully implemented.
		• Documentation of both the versions had to be done.

Week 9	(10th April, 2023 to 16th April, 2023)
	
	• Follow-up of the previous weeks tasks:
	  ○ Completion of documentation
	  ○ Choosing color theme for the website
	  ○ Navbar adjustment
	  ○ References to organization
	  ○ Learning Node and React
		• The color theme was decided to be of the tone of color blue.
		• Navbar was adjusted to be horizontal instead of vertical.

Week 10	(17th April, 2023 to 23th April, 2023) • Implementation of the Admin page • Organization authentication • Implementation of the profile page • Integration of the aforementioned pages done	• The design for the admin page and its Navbar is finalized. • The desktop as well as mobile version of the website
Week 11	(24th April, 2023 to 28th April, 2023) • Final Integration of the Front end and the Back end portion. • Making SRS, Design	• Test run of the Website • Scrutinizing the documentations and Testings so that it remains consistent with the project. • Final submission.

	Documents, meeting minutes. • Making a video for the website demonstration • Blackbox, GUI and Non-functional Testings	

9. Appendix :

9.1. References from where information gathered:

- For Django tutorial
- Bootstrap used for navbar
- For SRS formating
- **Lecture Slide 10: Use Case modelling**
- **Lecture Slide 11: User Stories**
- **Lecture Slide 12: Software Requirements**
- **Lecture slide 13: IEEE830-1993 for SRS Understanding**

9.2. Definitions of specific terms, and abbreviations:

- **Agile Model:** The Agile model is a software development approach that includes flexibility, customer satisfaction, and iterative development. It involves breaking down the development process into smaller, incremental stages, each of which focuses on a specific set of features or requirements.

- **Functional Requirements:** Product features or functions that developers must implement to enable users to accomplish their tasks. Generally, functional requirements describe system behavior under specific conditions.

- **Non-Functional Requirements:** specifies the quality attribute of a software system. They judge the software

system based on Responsiveness, Usability, Security, Portability and other non-functional standards that are critical to the success of the software system.

- **NoSQL DB:** NoSQL is a type of database management system (DBMS) that is designed to handle and store large volumes of unstructured and semi-structured data. Unlike traditional relational databases that use tables with predefined schemas to store data, NoSQL databases use flexible data models that can adapt to changes in data structures and are capable of scaling horizontally to handle growing amounts of data.

- **Navbar:** Navigation Bar. A Bar that includes various Tabs to access other pages on the website.

- **SDLC:** Software Development Life Cycle which is a process used by software development teams to design, develop, and test high-quality software products.

- **Sprint Planning:** It is a collaborative meeting where the development team and product owner come together to plan the work that will be accomplished during the upcoming sprint.

- **SRS Document:** Software Requirement Specification Document. As the name suggests, is a complete specification and description of requirements of software that needs to be fulfilled for successful development of a software system.

- **Use Case:**It describes how a user or system interacts with a software system to achieve a specific goal.

- **User Stories:** An informal, general explanation of a software feature written from the perspective of the end user or customer.