

IT314: Software Engineering

Course Project Kick-Off



Group: 15 Conference Management System

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Needs:

- 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, session attendance, and other metrics, 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.

Features:

These are our overall features of the website:

- Classic home page with navigation bar and footer.
- Details of lecturers/speakers that are participating in the conference.
- Display the details about the sponsors of the event.
- Display the social media handle of the organization.
- Schedule Timeline
- Mail Auto generation
- Registration Fee Payment portal
- Editable Navigation bar
- Feedback system
- An Archives section that stores data/details of previous years conferences

I. Functional Requirements:

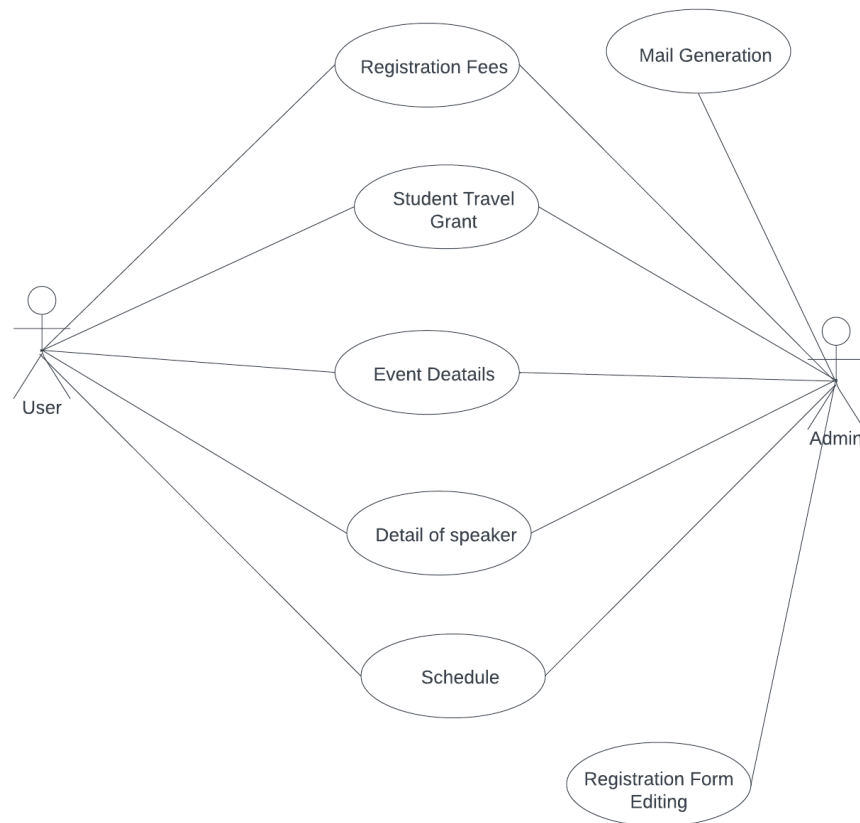
- A website should give all information regarding the conference organization, like venue, schedule, timings, participants and roles.
- A website should give schedule information for all the events/sessions which are part of the conference.
- The registration page should be there for an audience who wants to participate in the conference.
 - Users should be able to register themselves. Upon successful registration, **auto-generated mail containing a receipt** should be sent to them as proof of registration.
- Registration page for organizations, and sponsors for the conference.
 - Organizations should be able to register themselves on the website by providing relevant details.
 - This registration may be paid or unpaid, depending on the conference requirements.
- 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.
- A portal to manage the accommodation of participants, where one should be able to register him/herself.
 - Students should be able to track their allocated rooms.
- A portal for students to be able to apply for **travel grants**. So that students residing far away can also get a chance to participate in conferences.

- A website should have a **contact us** page providing all relevant mailing lists.
 - Also, details of all the coordinators/members of committees/organizations should be available.
- Since the conference is conducted every year, the website should also have a feature of **archives** where past data can be accessed.

II. Non Functional Requirements:

- The project should be open source and available for everyone.
- Display the timeline of the event to the user.
- The payment gateway of the system should be secure.
- Attendees of the conference should be able to share their thoughts and experiences through feedback.
- The system should be user-friendly and easy to use.
- The system should be fast, responsive, and have low latency.
- It should handle a more significant number of users.
- Registration for the conference should be closed after a maximum number of registrations have been made.
- The system is scalable to accommodate growth and increase the number of users over time.
- 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.

Use Case Diagram



Process model best suited for our course project :

After reviewing the needs and requirements of the project, we decided that the **Agile Process Model** is the best suited for our project. There are many reasons to use an agile process model. The agile model is an approach to software development that emphasizes iterative, incremental work cycles and close collaboration between development teams and stakeholders.

- **Flexibility:** Agile makes it possible to make adjustments and changes at any development stage, making it simpler to adjust to changing requirements or altering priorities.

- **Iterative model:** This model breaks the tasks into smaller iterations that are not directly involved in long-term planning.
- **Faster Delivery:** In an agile model, the development team can prioritize and complete smaller parts of the project in each Iteration, which helps in the quicker delivery of working software.
- **Customer Satisfaction:** Agile enables frequent software assessments and demonstrations, giving stakeholders a chance to provide feedback and ensure the project fulfills their needs.
- **Better Quality:** The Agile process can assist in identifying and resolving possible issues early in the development cycle, resulting in a higher-quality product by often producing and testing functioning software.
- **User connectivity:** As the agile model includes a dynamic software development method(DSDM), it allows active user connection, which helps in rapid application development.

In our project, many requirements can be added as per new requirements. An agile model can easily manage this because it includes iterative development.

So, We decided to use Agile because it offers a collaborative, flexible, and effective method for developing software that can result in higher-quality output and greater customer satisfaction.