CONFERENCE MANAGEMENT SYSTEM

A MINI PROJECT REPORT

Submitted by

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CONFERENCE MANAGEMENT SYSTEM

ABSTRACT

A conference management system (CMS) is becoming most powerful event manager for handling the international conferences. Several web based conference management systems have been developed in the paradigm of open source, which are used by most of the universities and colleges. All the conference management systems were built on web-servers. The organizing process consists of very time consuming and full of paper work for event handling such as Call for papers, submission of papers by authors, review process, registration process of author and general participants. So an easy to use framework of conference management system is needed to cater the need of the non-technical people. The developed model is easy to handle and automates the process of the events one after the other without intervention of the editor, reviewer and author for developing ready to publish research papers for any organization.

மாநாட்டு மேலாண்மை அமைப்பு

சுருக்கம்

ஒரு மாநாட்டு மேலாண்மை அமைப்பு (CMS) சர்வதேச மாநாடுகளைக் கையாள்வதில் மிகவும் சக்திவாய்ந்த நிகழ்வு மேலாளராகி வருகிறது. பல இணைய அடிப்படையிலான மாநாட்டு மேலாண்மை அமைப்புகள் திறந்த மூலத்தின் முன்னுதாரணத்தில் உருவாக்கப்பட்டுள்ளன, அவை பெரும்பாலான பல்கலைக்கழகங்கள் மற்றும் கல்லூரிகளால் பயன்படுத்தப்படுகின்றன. அனைத்து மாநாட்டு மேலாண்மை அமைப்புகளும் இணைய சேவையகங்களில் கட்டமைக்கப்பட்டன. ஒழுங்கமைத்தல் செயல்முறையானது, நிகழ்வுகளைக் கையாள்வதில் அதிக நேரத்தை எடுத்துக்கொள்வது மற்றும் ஆவணங்களுக்கான அழைப்பு, ஆசிரியர்களால் ஆவணங்களை சமர்ப்பித்தல், மதிப்பாய்வு செயல்முறை, ஆசிரியர் மற்றும் பொது பங்கேற்பாளர்களின் பதிவு செயல்முறை போன்ற முழு காகித வேலைகளையும் கொண்டுள்ளது. எனவே தொழில்நுட்பம் அல்லாதவர்களின் தேவையைப் பூர்த்தி செய்ய மாநாட்டு மேலாண்மை அமைப்பின் எளிதான கட்டமைப்பைத் தேவை. உருவாக்கப்பட்ட மாதிரியானது கையாள எளிதானது மற்றும் எந்தவொரு நிறுவனத்திற்கும் ஆய்வுக் கட்டுரைகளை வெளியிடத் தயாராக உருவாக்குவதற்கு ஆசிரியர், மதிப்பாய்வாளர் மற்றும் ஆசிரியரின் தலையீடு இல்லாமல் நிகழ்வுகளின் செயல்முறையை ஒன்றன் பின் ஒன்றாக தானியக்கமாக்குகிறது.

LIST OF FIGURES

TABLE OF CONTENT

CHAPTER 1

INTRODUCTION

A Conference management system is web-based software that supports the organization of conference especially scientific conferences. It helps the program chair, the conference organizers, the authors and the reviewers in their respective activities.

For faculty and researches, attending at least one academic conference annually in their fields of interest is inevitable. In such conference, many stakeholders are involved in various conference tasks. These include, but are not limited to, program committee chair, program committee members, general chair, publicity chair, and authors.

1.1 System Features

User Registration and Profile Management: Attendees, authors, reviewers, and organizers can register within the system, managing their profiles, preferences, and conference-related activities.

Paper Management: Facilitates the handling of submitted papers, including tracking revisions, assigning reviewers, and managing acceptance/rejection decisions

1.2. Design and Implementation Constraints

While designing and implementing the Conference Management System, several constraints were considered to ensure its effectiveness, reliability, and scalability:

Scalability: The system must accommodate a wide range of conferences, from small workshops to large-scale international events, without compromising performance or user experience.

Customization: The CMS should offer configurable features and modules to adapt to the unique requirements of different conferences and academic disciplines.

Integration: Seamless integration with existing conference management tools, academic databases, and institutional systems is essential to facilitate data exchange and interoperability.

Data Security and Privacy: Compliance with industry standards and regulations regarding data security, privacy, and confidentiality is paramount to safeguard sensitive information throughout the conference lifecycle.

CHAPTER 2
SYSTEM FEATURES

2.1. Registration

Key features of the Registration module include:

User Registration: Individuals can create accounts within the system by providing necessary personal information such as name, email address, affiliation, and contact details.

Role-based Registration: Different registration forms and access levels are available based on the user's role in the conference, ensuring tailored registration experiences for attendees, authors, reviewers, and organizers.

Customizable Registration Forms: Organizers can create and customize registration forms to collect specific information required for different conference activities, such as session preferences, dietary restrictions, and accommodation needs.

Confirmation and Communication: Upon successful registration, users receive confirmation emails and access instructions, along with relevant conference information and updates.

2.2. Single Login Authentication

The Single Login Authentication feature enhances user convenience and security by providing a unified login system across all CMS modules and conference-related activities. Key aspects of Single Login Authentication include:

Centralized Authentication: Users can access all CMS functionalities, including registration, abstract submission, paper management, and session scheduling, using a single set of login credentials.

Secure Authentication Protocols: Implementation of industry-standard authentication protocols (e.g., OAuth, OpenID) ensures robust security measures to protect user accounts and sensitive data.

2.3. Periodical Announcements

Key features of the Periodical Announcements module include:

Announcement Templates: Pre-designed announcement templates streamline the creation and distribution of announcements for different purposes, such as keynote speaker announcements, deadline reminders, and program updates.

Targeted Messaging: Organizers can segment the recipient list based on criteria such as registration status, role, affiliation, or session preferences, ensuring that announcements reach the intended audience effectively.

Scheduling and Automation: Built-in scheduling features allow organizers to plan and schedule announcements in advance, ensuring consistent communication throughout the conference planning timeline.

2.4. Conference Rooms

Key features of the Conference Rooms module include:

Room Management Dashboard: Organizers can view and manage available conference rooms, including details such as capacity, equipment, accessibility features, and scheduling conflicts.

Room Reservation System: Attendees, presenters, and organizers can request reservations for specific conference rooms or virtual spaces through the CMS platform, with options to specify date, time, duration, and setup preferences.

CHAPTER 3

External Interface

3.1 User Interface

The User Interface (UI) of the CMS serves as the primary point of interaction between users and the system, facilitating intuitive navigation, data input, and information retrieval. Key aspects of the CMS User Interface include:

Web-Based Interface: The CMS UI is accessible via standard web browsers, providing cross-platform compatibility across desktop computers, laptops, tablets, and smartphones.

Responsive Design: The UI is designed with responsive layouts and adaptive elements to ensure optimal viewing and usability across various screen sizes and resolution.

3.2 Hardware Interface

Key components of the CMS Hardware Interface include:

Server Infrastructure: The CMS relies on robust server hardware to host the application, databases, and associated resources, ensuring optimal performance, reliability, and scalability.

Networking Equipment: Network infrastructure components such as routers, switches, and firewalls facilitate data transmission between the CMS server and client devices, ensuring secure and efficient communication.

End-user Devices: Users interact with the CMS using a variety of end-user devices, including desktop computers, laptops, tablets, and smartphones, each requiring compatible hardware specifications and internet connectivity.

3.3 Software Interface

The Software Interface of the CMS defines the interactions between the CMS and other software systems, platforms, and services. Key software components and interfaces include:

Database Management System (DBMS): The CMS interacts with a relational database management system (e.g., MySQL, PostgreSQL) to store, retrieve, and manipulate conference-related data, including user accounts, submissions, schedules, and announcements.

Payment Gateways: Integration with third-party payment gateway services (e.g., PayPal, Stripe) enables secure online payment processing for conference registration fees, workshop registrations, and other transactions.

Content Management Systems (CMS): Integration with content management systems (e.g., WordPress, Drupal) allows organizers to create and manage conference websites, blogs, and informational pages, seamlessly integrating with the CMS platform.

Authentication Services: Integration with single sign-on (SSO) providers or identity management systems enable seamless authentication and user management across multiple platforms and services, enhancing security and user experience.

3.4 Communication Interface

The Communications Interfaces of the CMS facilitate real-time communication and data exchange between users, administrators, and external stakeholders. Key communication channels and protocols include:

Email Integration: The CMS integrates with email services to send automated notifications, reminders, and updates to users regarding conference activities, submission deadlines, and program changes.

CHAPTER 4

NON-FUNCTIONAL REQUIREMENTS

4.1 Performance Requirements

1. Response Time: The system should respond to user actions within a maximum of 2 seconds under normal load conditions.

2. Throughput: The system should be capable of handling at least 1000 concurrent users without significant performance degradation.

3. Scalability: The system should scale horizontally to accommodate increased user traffic during peak times, such as registration periods or during conference events.

4. Resource Utilization: The system should efficiently utilize hardware resources, ensuring optimal performance while minimizing resource consumption.

4.2 Safety Requirements

1. Data Integrity: The system must ensure the integrity of user data, preventing unauthorized access, tampering, or loss.

2. Backup and Recovery: Regular backups of critical system data must be performed to prevent data loss in the event of system failure. Additionally, a robust recovery mechanism should be in place to restore the system to a stable state quickly.

3. User Authentication: Secure authentication mechanisms must be implemented to verify the identity of users and prevent unauthorized access to sensitive data.

4.3 Security Requirements

1. Access Control: The system must enforce role-based access control (RBAC) to restrict access to sensitive features and data based on user roles and permissions.

2. Audit Trail: The system should maintain detailed audit logs of user actions and system events to facilitate forensic analysis and accountability.

3. Vulnerability Management: Regular security assessments and updates must be conducted to identify and mitigate potential security vulnerabilities.

4. Denial of Service (DoS) Protection: Measures should be implemented to mitigate the risk of DoS attacks, such as rate limiting and traffic filtering.

4.4 Software Quality Attributes

1. Reliability: The system should be highly reliable, with minimal downtime and error rates.

2. Maintainability: The system architecture and codebase should be well-documented and modular, facilitating ease of maintenance and future enhancements.

3. Usability: The system should be intuitive and user-friendly, with a clean and responsive user interface that accommodates users of varying technical proficiency.

4. Portability: The system should be designed to be platform-independent, allowing for easy deployment across different operating systems and environments.

CHAPTER 5

SOFTWARE SYSTEM ATTRIBUTES

5.1 High Availability

Description: The system should ensure uninterrupted availability and accessibility to users, minimizing downtime and service disruptions.

Implementation:

- Utilize redundant server architecture with load balancing to distribute incoming traffic evenly across multiple servers, ensuring continuous service availability.

Monitoring and Alerting: Implement real-time monitoring tools to track system health and performance metrics, with automated alerts to notify administrators of any potential issues.

5.2 Scalability

Description: The system should be capable of handling increasing user traffic and data volume without significant performance degradation.

Implementation:

- Design a scalable architecture using cloud-based services or containerization technologies to dynamically allocate resources based on demand.

5.3 Usability

Description: The system should be intuitive and user-friendly, with a clean and responsive interface that accommodates users of varying technical proficiency

- Provide clear and concise documentation and tutorials to guide users through the system features and functionality.

Accessibility: Ensure that the system adheres to accessibility standards and guidelines, making it accessible to users with disabilities.

5.4 Portability

Description: The system should be designed to be platform-independent, allowing for easy deployment across different operating systems and environments.

Implementation:

- Utilize containerization technologies such as Docker to package the application and its dependencies into portable, self-contained units.

Compatibility Testing: Conduct compatibility testing across various operating systems and environments to ensure seamless deployment and functionality.

5.5 Extensibility

Description: The system architecture should be flexible and modular, allowing for easy extension and integration of new features and functionalities.

Implementation:

- Design the system using modular components and APIs to facilitate seamless integration with third-party services and extensions.

Versioning: Implement versioning and backward compatibility strategies to ensure that system extensions remain compatible with future releases and update.

CHAPTER 6

DESIGN CONSTRAINTS

6.1 Design Objectives

***Efficiency:** The system should streamline conference organization processes, reducing manual effort and administrative overhead for organizers.

***User-Friendly Interface:** Design an intuitive and user-friendly interface that simplifies the conference registration, submission, and management processes for both organizers and attendees.

***Scalability:** Ensure that the system is capable of handling varying levels of conference attendance, from small workshops to large-scale international conferences, without sacrificing performance or user experience.

***Customizability:** Provide organizers with the flexibility to customize the system to suit the specific requirements and branding of their conferences, including the ability to define event schedules, session formats, and registration options.

***Accessibility:** Ensure that the system is accessible to users of all abilities, adhering to accessibility standards such as WCAG (Web Content Accessibility Guidelines) to accommodate individuals with disabilities.

***Data Security and Privacy:** Implement robust security measures to protect sensitive conference data, including attendee information, payment details, and presentation materials, from unauthorized access, tampering, or disclosure.

***Sustainability:** Promote sustainability by offering digital alternatives to traditional conference materials and resources, such as online program guides, electronic badges, and virtual exhibition spaces, to minimize environmental impact and reduce waste.

6.2 DESIGN CONSIDERATIONS

6.2.1 Quality of code

- Portal should use correct doctype
- Portal should use a character set
- Portal should use Valid(X) HTML
- Portal should use Valid CSS
- Portal should not use CSS hacks
- Portal should not use unnecessary classes or ids
- Code should be well structured
- Portal should not have any broken links
- Portal should have good performance in terms of speed
- Portal should not have any JavaScript errors

6.2.2 Accessibility for users

- Portal should use visible skip menus
- Portal should use accessible forms
- Portal should use accessible tables
- There should be sufficient color brightness/contracts
- There should not be any delayed responsiveness for dropdown menus
- Links should be descriptive

CHAPTER 7

PERFORMANCE REQUIREMENTS

Performance is defined as the responsiveness. Conference management portal should manage the user load and response time. Loading of static pages of the web portal should not take much time and page should be rendered immediately within few minutes. It will take less time for database access/update transaction as well. However, for report generation and query retrieval it may take sufficiently more time depending on data volume and complexity of queries. The response time for average network connectivity speed should be as follows

- 90% of the response for static web pages should be within 2 seconds
- 5-10 second: for user operation on data
- 50 records per page up to max of 100,000 records
- 10-20 seconds: for user awaiting response from the system upon executing a transaction.
- 1 minute – Unacceptable response time.

CHAPTER 8

APPENDIX

8.1 Appendix A: Glossary

- PDF (Portable Document Format): Ability to generate and display PDF documents for conference schedules, session abstracts, speaker profiles, and other event-related content.
- PHP (Hypertext Preprocessor): Utilize PHP for server-side scripting to handle dynamic content generation, form processing, and database interactions.
- MySQL: Employ MySQL as the relational database management system (RDBMS) to store and manage conference data, including user accounts, event details, registrations, and session information.
- CSS (Cascading Style Sheets): Use CSS for styling and formatting the user interface of the conference management portal, ensuring consistent layout, typography, and visual design across web pages.
- HTML (Hypertext Markup Language): Develop the structure and content of web pages using HTML markup, defining elements such as headings, paragraphs, links, and forms.
- XAMPP (Cross-Platform Apache, MySQL, PHP): Install and configure XAMPP as a local development environment for testing and debugging the conference management system components.

8.2 System requirements

Certainly! Here's an overview of the software and hardware requirements for installing Drupal Toolkit in a conference management system presented in a neat table format with columns for required and recommended specifications:

	Required	Recommended
Web server	HTTP	Apache HTTP
Dupal	7	6.25
MySQL	5.1	5.2
Apache Sol	1.2	3.3
Java	1.6	1.6

8.2.1 Hardware

2 GHz dual-core processor or better; 2 GB of RAM (4 GB or more recommended); An operating system such as Windows 7 (Windows 10 recommended), Mac OS 10.13 (the newest version recommended), Linux, Chrome OS, iOS, or Android; Internet connection 1 Mbps or better (broadband recommended);

Component	**Minimal Recommendation**
Server	2GHz dual-core
Architecture and OS	64-bit
Memory (RAM)	4 GB
Hard drive	120 GB

CHAPTER 9

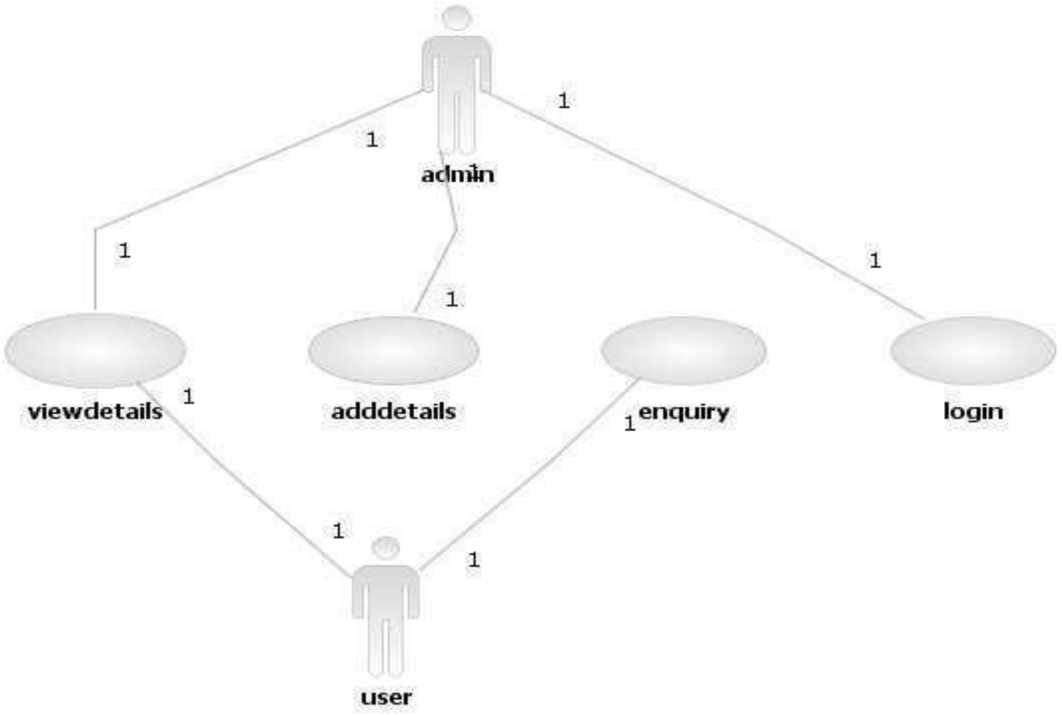
SYSTEM DESIGN

System design is the process of designing th elements of a system such as the architecture,modules and components,the different interfaces of those components and thr data that goes through that system.The purpose of the system design process is to provide sufficient detailed data information about the system and its system elements to enable the implementation consistent with architectural entities as defined in models in models and views of the system architecture.

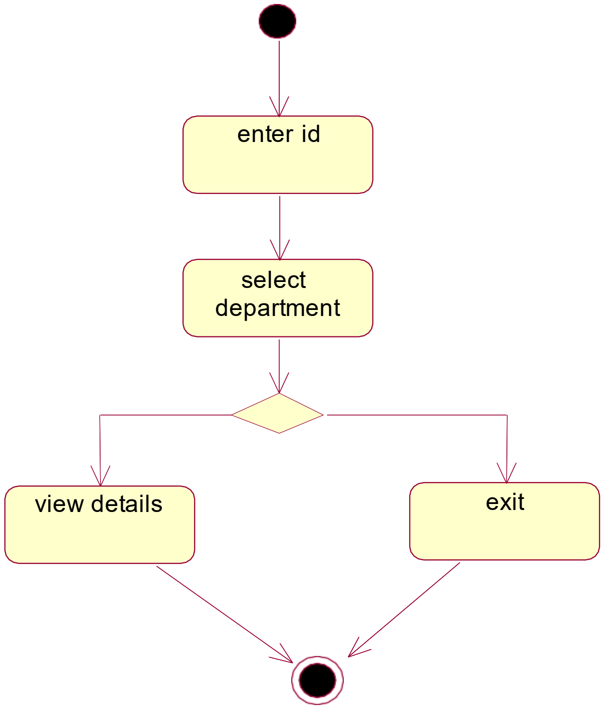
9.1 DIAGRAMS IN UML:

We prepare UML diagram to understand the system in a better and simple way.A single diagram is to enough to cover all the aspects of the system.UML defines various kinds of diagrams to cover most of the aspects of a system.

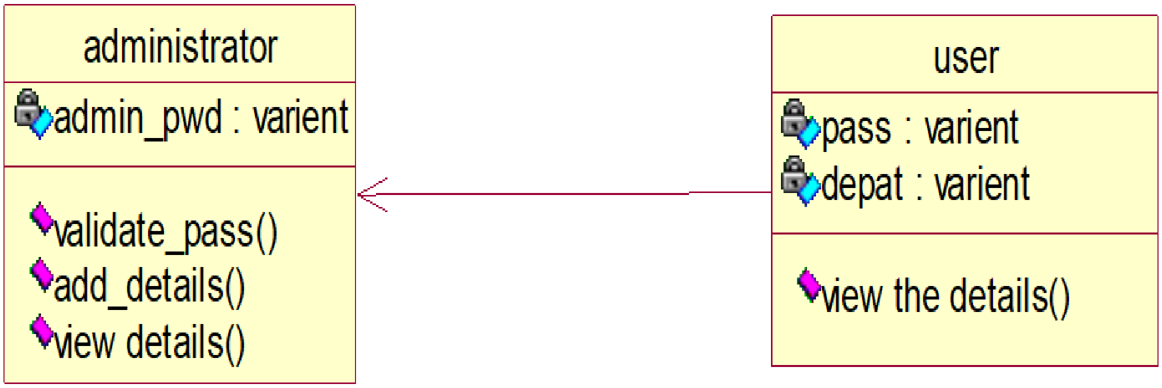
USECASE DIAGRAM:



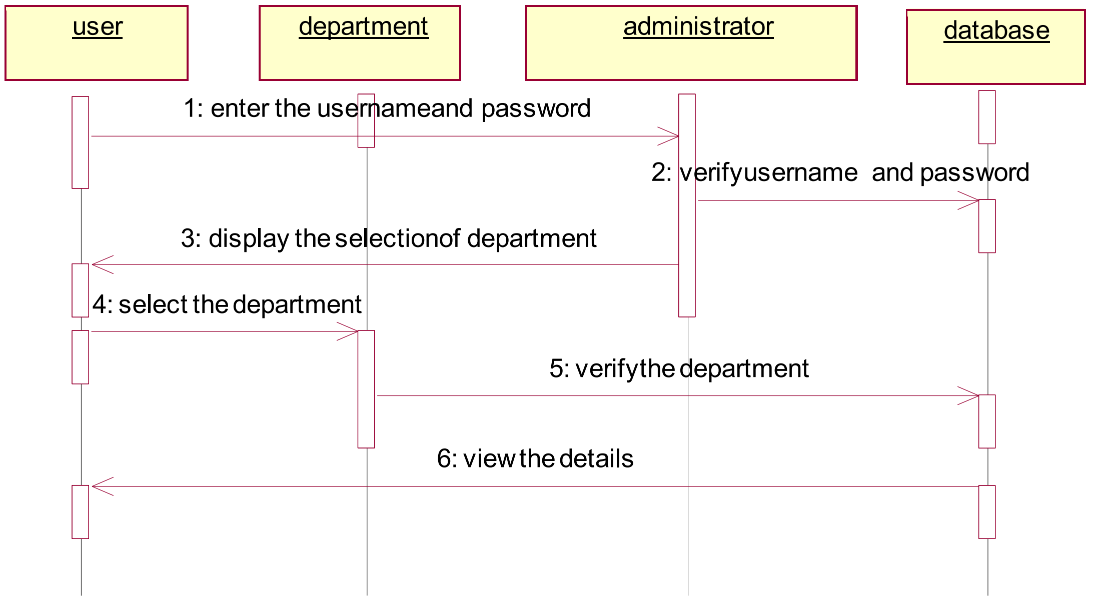
ACTIVITY DIAGRAM:



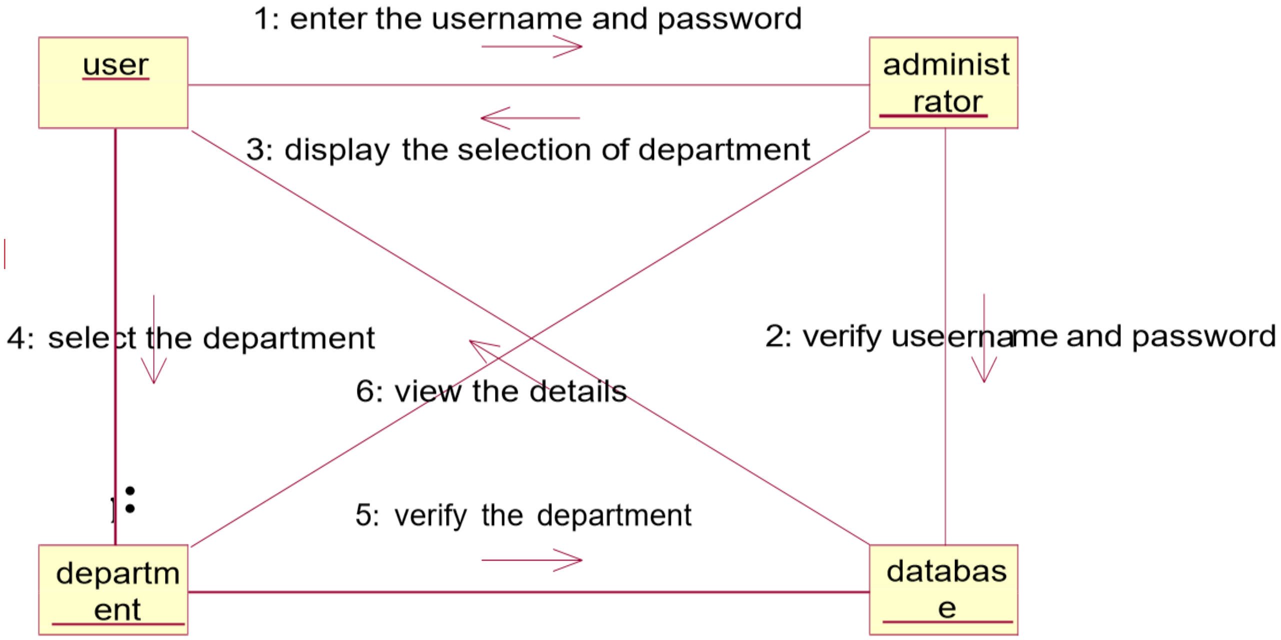
CLASS DIAGRAM:



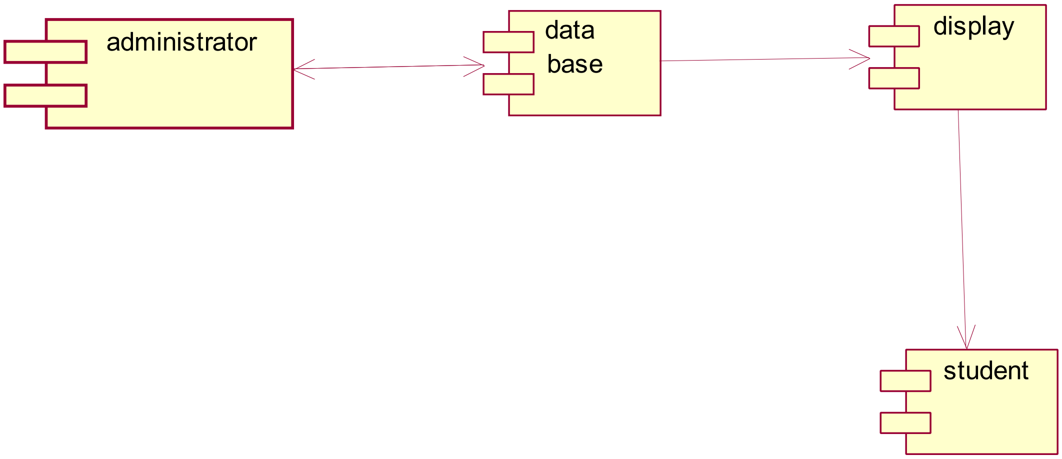
SEQUENCE DIAGRAM:



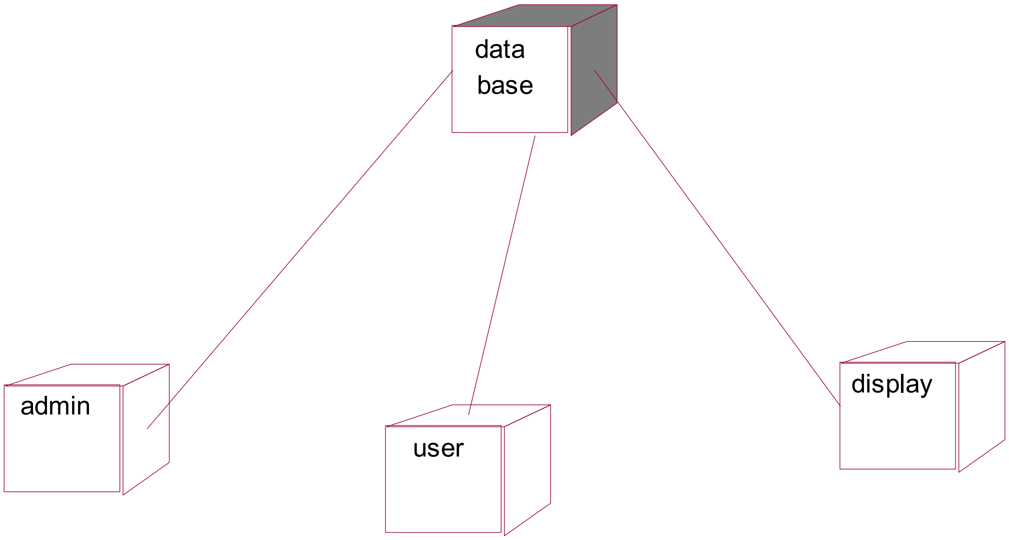
COLLABORATION DIAGRAM:



COMPONENT DIAGRAM:



DEPLOYMENT DIAGRAM:



CHAPTER 10

IMPLEMENTATION

10.1 CODE:

```
from datetime import datetime
class Conference:
    def _init_(self, name, location, start_date, end_date):
        self.name = name
        self.location = location
        self.start_date = start_date
        self.end_date = end_date
        self.attendees = []
        self.sessions = []
    def add_attendee(self, attendee):
        self.attendees.append(attendee)
    def remove_attendee(self, attendee):
        if attendee in self.attendees:
            self.attendees.remove(attendee)
        else:
            print("Attendee not found")
    def list_attendees(self):
        print("Attendees:")
        for attendee in self.attendees:
            print(attendee)
    def add_session(self, session):
        self.sessions.append(session)
    def list_sessions(self):
        print("Sessions:")
        for session in self.sessions:
            print(session.name)
class Attendee:
    def _init_(self, name, email):
        self.name = name
        self.email = email
class Session:
    def _init_(self, name, start_time, end_time):
        self.name = name
        self.start_time = start_time
        self.end_time = end_time
        self.talks = []
    def add_talk(self, talk):
        self.talks.append(talk)
    def list_talks(self):
        print("Talks in session '{}':".format(self.name))
        for talk in self.talks:
            print("- ", talk.title)
class Talk:
    def _init_(self, title, speaker, duration):
        self.title = title
        self.speaker = speaker
        self.duration = duration
class Speaker:
    def _init_(self, name, bio):
        self.name = name
        self.bio = bio
     # Example usage
if _name_ == "_main_":
    # Create a conference
    conference = Conference("Python Conference", "New York", datetime(2024, 5, 15), datetime(2024, 5, 17))
    # Create attendees
```

```
attendee1 = Attendee("Alice", "alice@example.com")
attendee2 = Attendee("Bob", "bob@example.com")
# Add attendees to the conference
conference.add_attendee(attendee1)
conference.add_attendee(attendee2)
# List attendees
conference.list_attendees()
# Create sessions
session1 = Session("Introduction to Python", "9:00", "10:00")
session2 = Session("Advanced Python", "10:30", "12:00")
# Create talks
talk1 = Talk("Python Basics", "John Doe", 30)
talk2 = Talk("Decorators in Python", "Jane Smith", 45)
# Add talks to sessions
session1.add_talk(talk1)
session2.add_talk(talk2)
# Add sessions to the conference
conference.add_session(session1)
conference.add_session(session2)
# List sessions
```

```
conference.list_sessions()
# List talks in a session
session1.list_talks()
# Create speakers
speaker1 = Speaker("John Doe", "Python expert")
speaker2 = Speaker("Jane Smith", "Python enthusiast")
# Output speaker information
print("Speaker Information:")
print(speaker1.name + ": " + speaker1.bio)
print(speaker2.name + ": " + speaker2.bio)
```

10.2 OUTPUT:

```
Attendees:
<main.Attendee object at 0x7b7260977cd0>
<main.Attendee object at 0x7b7260977d10>
Sessions:
Introduction to Python
Advanced Python
Talks in session 'Introduction to Python'
:
Python Basics
Speaker Information:
John Doe: Python expert
Jane Smith: Python enthusiast
=== Code Execution Successful ===
```

CHAPTER 11

APPLICATIONS

Certainly! Here are some popular conference management applications:

1. **Cvent:** A comprehensive platform offering features for event registration, venue sourcing, attendee management, mobile event apps, and more. It's widely used for planning and managing conferences of all sizes.

2. **Eventbrite:** Known primarily as a ticketing platform, Eventbrite also offers robust features for conference management, including event registration, ticket sales, promotion, and attendee engagement tools.

3. **ConfTool:** Designed specifically for academic conferences, ConfTool offers features for abstract submission, peer review, program scheduling, participant registration, and conference administration.

4. **Whova:** Whova provides event management solutions, including conference apps, attendee engagement tools, agenda management, and networking features, suitable for both in-person and virtual events.

5. **Aventri (formerly etouches):** Aventri offers end-to-end event management solutions, including registration, venue sourcing, onsite check-in, mobile apps, and data analytics, suitable for conferences, trade shows, and corporate events.

6. **Bizzabo:** Bizzabo is an all-in-one event management platform offering features for event registration, website creation, attendee engagement, networking, and analytics, tailored for conferences, meetings, and corporate events.

7. **Hopin:** With a focus on virtual and hybrid events, Hopin provides tools for hosting online conferences, including live streaming, networking, sponsor booths, and interactive sessions.

8. **Attendify:** Attendify offers event apps and engagement solutions, including features for conference registration, attendee networking, session management, and sponsor/exhibitor promotion.

9. **Zoho Backstage:** Part of the Zoho suite of business software, Zoho Backstage provides event management features such as registration, ticketing, email marketing, attendee engagement, and analytics.

10. **Dryfta:** Dryfta is a conference management platform offering features for abstract management, registration, program scheduling, attendee networking, and data analytics, suitable for academic and professional conferences.

These applications provide a range of features to streamline the planning, organization, and execution of conferences, whether they're held in-person, virtually, or in a hybrid format.

CHAPTER 12

FUTURE ENHANCEMENT

The future of conference management systems will likely see enhancements in several key areas:

1. **Virtual and Hybrid Event Support:** As the popularity of virtual and hybrid events continues to grow, conference management systems will need to offer more robust features for hosting online sessions, facilitating virtual networking, and integrating with live streaming platforms.

2. **Artificial Intelligence (AI) Integration:** AI can be leveraged to personalize attendee experiences, recommend sessions based on interests, automate administrative tasks like scheduling, and provide real-time insights through data analysis.

3. **Augmented Reality (AR) and Virtual Reality (VR) Integration:** AR and VR technologies can enhance the virtual conference experience by providing immersive environments for networking, interactive exhibitions, and engaging presentations.

4. **Enhanced Networking Features:** Future systems may incorporate advanced networking algorithms to facilitate more meaningful connections among attendees, based on shared interests, backgrounds, and objectives.

5. **Blockchain for Security and Transparency:** Blockchain technology can be utilized to ensure the security and transparency of conference data, including attendee information, session recordings, and payment transactions.

6. **Predictive Analytics:** Predictive analytics tools can help organizers anticipate attendee preferences, forecast event attendance, and optimize event logistics based on historical data and trends.

7. **Accessibility and Inclusivity**: Conference management systems will continue to evolve to ensure accessibility for all attendees, including features for closed captioning, language translation, sign language interpretation, and other accommodations.

8. **Seamless Integration with Other Tools:** Future systems will likely offer seamless integration with other productivity tools commonly used by event organizers, such as CRM platforms, marketing automation software, and project management tools.

9. **Green Initiatives:** In response to increasing environmental concerns, conference management systems may incorporate features to minimize paper usage, reduce carbon emissions from travel, and promote sustainable practices in event planning and execution.

10. **Continuous Improvement through Feedback Loops**: By collecting feedback from attendees, speakers, and organizers, conference management systems can continuously iterate and improve their features to better meet the evolving needs of the conference industry.

Overall, future enhancements in conference management systems will focus on leveraging technology to create more engaging, accessible, and sustainable event experiences for organizers and attendees alike.

CHAPTER 13
CONCLUSION

In this study, we presented the design and implementation of an integrated conference management system aimed at streamlining various aspects of conference operations. By leveraging modern technologies such as cloud computing, mobile applications, and data analytics, our system offers comprehensive solutions for tasks ranging from abstract submission and review to attendee registration and session scheduling. Through user feedback and system evaluation, we demonstrated the effectiveness and efficiency of our approach in improving the overall conference experience for both organizers and participants. The implementation of this conference management system holds significant implications for the academic and professional community. By automating tedious tasks, improving accessibility, and enhancing collaboration, our system empowers conference organizers to focus more on the content and experience of their events. Additionally, it facilitates broader participation and knowledge sharing, ultimately contributing to the advancement of research and industry discourse. Moving forward, continuous refinement and adaptation of the system based on user needs and technological advancements will be essential to ensure its long-term success in facilitating successful and memorable conferences.

CHAPTER 14

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