Vision Document
[CPP ConferPlannerPro]

- ## Introduction

  This Vision document provides a comprehensive overview of CPP ConferPlannerPro (CPP), an event management system designed to enhance the planning, organization, and execution of professional events such as conferences, workshops, and seminars. This document outlines the conceptual foundation, stakeholder descriptions, product overview, features, and other requirements necessary for the successful development and implementation of CPP.

References:

- Unified Process Documentation, Version 1.0, July 2024, Rational Software
- **ISO/IEC 25010:2011**: Systems and software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — System and software quality models.
- **IEEE Std 830-1998**: IEEE Recommended Practice for Software Requirements Specifications.

- ## Positioning

  ○ **Problem Statement**

The problem of	*The problem of organizing professional events involves numerous tasks, including managing submissions, coordinating schedules, and handling attendee information. Current solutions often lack integration, leading to inefficiencies and increased workload for event organizers.*
Affects	*Event organizers, attendees, and reviewers.*
The impact of this is	*It increased administrative overhead, communication breakdowns, and inefficiencies in event management.*
A successful solution would be	*An integrated platform thats scmjjdelf streamlines event management tasks, reduces workload and enhances stakeholder collaboration.*

  ○ **Product Position Statement**

For	*Event organizers and attendees.*
Who	*Need an efficient and integrated platform for managing professional events.*
The CPP ConferPlannerPro	*Is a web-based event management system.*
That	*Provides tools for submission management, schedule coordination, and attendee management.*
Unlike	*Existing fragmented solutions.*
Our product	*Offers a comprehensive, unified platform that enhances efficiency and collaboration.*

● Stakeholder & User Descriptions

In the context of CPP ConferPlannerPro, stakeholders and users have distinct roles and impacts:

- Stakeholders are individuals or groups with an interest in the success and outcome of the project. They influence the project but may not directly interact with the system on a regular basis.
- Users are those who will interact directly with the system to perform specific tasks. They are directly affected by the functionality and usability of the system.

● ***Stakeholders and Users Differentiation***

Role	**Type**	**Description**	**Responsibilities**	**Needs Addressed**
Program Chairs	Stakeholder	Decision-makers in the event process.	Oversee the review and scheduling process, making final decisions on submissions.	Need efficient tools for submission management and agenda coordination to replace manual processes.
System Administrators	Stakeholder	Manage the system's technical infrastructure.	Handle user roles, permissions, and system configurations.	Require a robust system that is easy to maintain and secure, addressing the inefficiencies of current manual setups.
Authors	User	Submit and track papers for conferences.	Engage with the submission process, revise based on feedback.	Need a user-friendly system that simplifies submission and status tracking, overcoming the limitations of email and physical document management.
Reviewers	User	Evaluate submissions for conferences.	Assess the quality and relevance of submissions, and provide feedback.	Need streamlined, transparent review processes to replace disjointed manual methods.

Attendees	User	Participate in events organized by the system.	Register for events, attend sessions, provide feedback.	Desire easy access to event information and seamless registration processes, addressing the cumbersome manual entry systems.

- **User Environment**
  - ***Number of people involved in completing the task****: Varies based on event size.*
  - ***Task cycle length****: Typically spans several months.*
  - ***Amount of time spent in each activity****: Significant time investment in submission management, review coordination, and scheduling.*
  - ***Unique environmental constraints****: Requires reliable internet access and compatibility with various devices.*
  - ***Current system platforms****: Web-based applications.*
  - ***Future platforms****: Potential integration with mobile applications.*
  - ***Other applications in use****: Email clients, calendar applications, document management systems.*
  - ***Integration needs****: CPP must integrate with these existing applications to streamline workflows.*

Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solution**s**
Efficient Review Processes	*High*	Time-consuming and prone to errors	*Reviews are done manually via email and physical documents*	*Automated review management system to streamline processes*
Centralized Communication	*High*	Miscommunication and delays	*Multiple disjointed channels like emails and phone calls*	*Integrated communication platform for all event-related interactions*
Unified Data Management	*High*	Difficulty accessing and managing data	*Data stored in various physical files and unconnected digital formats*	*Centralized database with easy access and management features*
Automated Scheduling	*High*	Conflicts and manual error	*Manual scheduling on paper or basic digital calendars*	*Automated scheduling tool with conflict resolution capabilities*

Accessible Event Information	*Medium*	Inadequate access to updated information	*Information is disseminated through printed materials and sporadic emails*	*Real-time updated digital platform for all event information*
Submission Status Tracking	*Medium*	Uncertainty and lack of transparency	*Submissions are tracked manually, communicated irregularly via email*	*System with real-time submission tracking and status updates*

● Product Overview

○ Product Perspective

CPP ConferPlannerPro (CPP) is envisioned as a comprehensive, self-contained platform designed to enhance the efficiency of organizing and managing professional events such as conferences, workshops, and seminars. Although CPP is primarily an independent system, it can integrate seamlessly with existing business systems and productivity tools to ensure a cohesive user experience. The following block diagram illustrates the major components of CPP and their interactions with external systems:
Key interactions include:

- Data Exchange with Calendar Applications: To assist in scheduling and conflict resolution.
- Integration with Email Systems: For notification and communication purposes.
- Linkages with Document Management Systems: Facilitating the submission and review of conference materials.

○ Assumptions and Dependencies

Category	Assumptions	Dependencies
Operating Systems	Assumes availability of specific operating systems like Windows 10 or macOS Catalina for optimal performance.	Dependency on the continued support and availability of these operating systems.
Internet Connectivity	Assumes users have continuous and stable internet connectivity for accessing cloud-based features.	Performance and functionality are dependent on the quality of the user's internet connection.
Browser Support	Assumes users will access the application using modern browsers that support HTML5 and CSS3.	Dependency on browser manufacturers to maintain and update standards support.
Third-Party Services	Assumes integration with third-party services like Google APIs for calendar and email functionalities.	Dependent on the availability and stability of third-party APIs and services.

Hardware	Assumes that user devices meet certain minimum hardware requirements for performance (e.g., processor speed, RAM).	The software's performance is dependent on the user's hardware capabilities.

- ## Product Features
  - **Review Coordination**
    - **Description**: Facilitates the distribution of submitted papers to reviewers, collection of feedback, and compilation of review results.
    - **Functionality**: Reviewers can access papers assigned to them, submit evaluations, and recommend acceptance or revisions.
  - **Event Scheduling**
    - **Description**: Automates the scheduling of sessions, workshops, and keynotes, considering availability and preferences to minimize conflicts.
    - **Functionality**: Includes tools for program chairs to easily create and modify event schedules, and for attendees to view the up-to-date schedule in real-time.
  - **Attendee Registration and Management**
    - **Description**: Manages attendee registrations, including payment processing, badge creation, and attendance tracking.
    - **Functionality**: Attendees can register for the event, choose sessions, and manage their participation details online.
  - **Communication Tools**
    - **Description**: Offers integrated tools for messaging and announcements between organizers, participants, and speakers.
    - **Functionality**: Features include the ability to send targeted notifications, conduct surveys, and facilitate live Q&A sessions during events.
  - **Reporting and Analytics**
    - **Description**: Provides real-time insights into various aspects of the event such as participant engagement, session popularity, and financial metrics.
    - **Functionality**: Generates downloadable reports and analytics dashboards that help organizers make informed decisions.
  - **Mobile Integration**
    - **Description**: Ensures that the platform is accessible and fully functional on mobile devices, enhancing accessibility for users on-the-go.
    - **Functionality**: Mobile apps or responsive web design that provides a seamless experience across different device types.
  - **Vendor and Sponsor Management**
    - **Description**: Tools to manage relationships with sponsors and vendors, including spaces for exhibitions, sponsor contributions, and promotional activities.
    - **Functionality**: Allows sponsors to choose and manage their involvement levels, and vendors to manage their presence and services at the event.
  - **Security and Compliance**
    - **Description**: Ensures that all data within the system is protected according to industry standards and compliant with global data protection regulations.
    - **Functionality**: Includes secure data handling, encrypted communications, and compliance with GDPR and other relevant laws.

Other Product Requirements

- **Standards and Platform Requirements**

- Web Standards: Complies with HTML5, CSS3, and JavaScript ES6+ to ensure cross-browser compatibility.
- Operating Systems: Must be fully operable on Windows, macOS, and Linux through web browsers.
- Hardware Requirements: Optimized for desktops and mobile devices with minimal RAM and processing power requirements specified for smooth operation.
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- **Performance Requirements**
  - Load Time: Web pages should load within 3 seconds on a standard broadband connection.
  - Concurrency: Must support up to 10,000 concurrent users without degradation of performance.
  - Data Processing: Capable of processing large volumes of data (up to 10 GB) efficiently.
- **Environmental Requirements**
  - Accessibility: Compliant with WCAG 2.1 Level AA to ensure accessibility for users with disabilities.
  - Localization: Designed to support multiple languages, starting with English, Spanish, and French.

- **Quality Attributes**
  - Robustness: The system should handle invalid inputs gracefully without crashing, providing meaningful error messages.
  - Fault Tolerance: Must have an uptime of 99.9%, with automatic failover to backup systems in the event of a failure.
  - Usability: The interface should be intuitive, with a learning curve not exceeding 30 minutes for basic functionalities.
  - Security: Adherence to OWASP Top 10 to ensure protection against common security vulnerabilities.

Appendix: Time Log

Task Section	**Time Spent (hours)**
Introduction	1
Positioning	1.5
Stakeholder Descriptions	2
Product Overview	1.5
Product Features	2
Other Product Requirements	1
Formatting and Editing	1
Total	10