

EVENT PLANING SYSTEM



Project Team

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PROJECT OVERVIEW

Main Goal of the Project:

The main goal of the Event Planning system is to design and develop a software that enables event organizers to efficiently plan, manage, and execute events of various sizes and types. This system aims to streamline the planning process by offering tools for scheduling, resource management, vendor coordination, and budget tracking.

Problem Statement:

The software aims to solve the problem of manual event planning, which can be time-consuming, prone to errors, and often results in last-minute chaos. The system will provide a centralized platform for event organizers to manage all aspects of event planning, including venue selection, catering, invitations, RSVPs, and logistics.

SCOPE AND OBJECTIVES

Scope:

The Event Planning System will be a desktop-based application that allows event organizers to plan and manage events from start to finish. The system includes following features:

- User registration and authentication.
- Event creation and management.
- Send Invitation
- Vendor management
- Task assignment and progress tracking.
- Budget management, including expense tracking and reporting.
- User notifications and reminders.

Objectives:

- Provide a user-friendly interface for event organizers that enable them to create and manage events efficiently, reducing the time and effort required for planning.
- Automate event planning tasks, such as sending invitations and tracking RSVPs.
- Offer a centralized platform for managing event logistics, including venue selection and catering.
- Ensure data accuracy and reduce errors associated with manual event planning.
- To enable efficient collaboration among users and vendors.
- To provide real-time updates and notifications regarding event progress.
- To create a comprehensive budget tracking and reporting feature.

TECHNICAL REQUIREMENTS

Programming Language: Java will be used as the primary programming language for the project.

Library: Swing will be used as the GUI library for developing the desktop application.

Database: MySQL will be used as the relational database management system to store event data.

Development Environment: Apache NetBeans IDE 23(for Java development)

Why these technologies were chosen:

- Java has a large developer community and strong enterprise-level support, making it suitable for building robust desktop applications.
- Swing provides a rich set of GUI components that are native to the Java platform, making it easy to develop a desktop application with a native look and feel.
- MySQL is a reliable and scalable relational database with strong support for data integrity.

SYSTEM MODULES

Following are the main modules of the system:

1. User Registration Module

- **Description:** This module handles user account creation and management, allowing users to register, log in, and manage their profiles.

2. Event Creation and Management Module

- **Description:** This module allows users to create, edit, and delete events. It includes functionalities for setting event details such as date, time, location, and description.

3. Task Assignment Module

- **Description:** This module enables users to assign tasks to team members for each event. It includes functionalities for setting deadlines, monitoring task progress, and updating task statuses.

4. Send Invitation Module

- **Description:** This module allows users to send invitations to attendees for events, manage RSVPs, and track participant responses.

5. Budget Management Module

- **Description:** This module helps users track expenses related to each event. Users can input budget items, categorize expenses, and generate budget reports to analyze the financial status of events.

6. Vendor Management Module

- **Description:** This module allows users to manage vendor information and services related to events. Users can add, edit, and track vendor contracts and performance.

7. User Notifications and Reminders Module

- **Description:** This module sends notifications and reminders to users regarding upcoming events, tasks, and important deadlines to ensure timely actions.

FUNCTIONAL REQUIREMENTS

1. User Registration:

- **FR-01:** The system shall allow users to create an account using unique credentials (username and password).
- **FR-02:** The system shall allow users to log in using their registered credentials.
- **FR-03:** The system shall provide a password recovery feature for users who forget their passwords.
- **FR-04:** The system shall allow users to update their profile information, including name, email, and password.

2. Event Creation and Management:

- **FR-05:** The system shall allow users to create new events by specifying details such as event name, date, time, location, and description.
- **FR-06:** The system shall allow users to edit existing events and update event details as needed.
- **FR-07:** The system shall allow users to delete events that are no longer needed.
- **FR-08:** The system shall display a list of upcoming events to users.

3. Task Assignment:

- **FR-09:** The system shall allow users to create tasks associated with each event.
- **FR-10:** The system shall allow users to assign tasks to specific team members.
- **FR-11:** The system shall enable users to set deadlines for tasks.
- **FR-12:** The system shall provide functionality for tracking the progress of assigned tasks.

4. Send Invitation:

- **FR-13:** The system shall allow users to send event invitations to attendees via email.
- **FR-14:** The system shall enable users to manage RSVPs and track participant responses.
- **FR-15:** The system shall provide an option for users to send reminders to invitees before the event.

5. Budget Management:

- **FR-16:** The system shall allow users to input budget items related to each event.
- **FR-17:** The system shall enable users to categorize expenses for better tracking.
- **FR-18:** The system shall generate budget reports summarizing expenses and available budget for each event.
- **FR-19:** The system shall allow users to update and delete budget items as needed.

6. Vendor Management:

- **FR-20:** The system shall allow users to add vendor details, including name, contact information, and services provided.
- **FR-21:** The system shall enable users to edit existing vendor information.
- **FR-22:** The system shall allow users to delete vendor records when necessary.
- **FR-23:** The system shall provide a list of all vendors associated with the events.

7. User Notifications and Reminders:

- **FR-24:** The system shall send notifications to users regarding upcoming events and deadlines.
- **FR-25:** The system shall send reminders to users for tasks that are approaching their deadlines.
- **FR-26:** The system shall provide users with options to customize their notification preferences

NON-FUNCTIONAL REQUIREMENTS

Performance Requirements

- **NFR-01:** The system shall respond to user actions within 2 seconds under normal operating conditions.
- **NFR-02:** The system shall accommodate up to 10 simultaneous users without performance degradation.
- **NFR-03:** The system shall allow event creation and management operations to be processed within 3 seconds.

Reliability Requirements

- **NFR-04:** The system shall maintain 99.9% uptime to ensure reliability and availability for users.
- **NFR-05:** The system shall ensure data persistence and recoverability in the event of a failure.

Security Requirements

- **NFR-06:** The system shall encrypt sensitive user data, such as passwords, to protect against unauthorized access.
- **NFR-07:** The system shall implement role-based access control to restrict functionality based on user roles.
- **NFR-08:** The system shall comply with industry standards for data protection and privacy.

Usability Requirements

- **NFR-09:** The system shall provide an intuitive and user-friendly interface for all users.
- **NFR-10:** The system shall include user documentation and help features to assist users in navigating the application.

Compatibility Requirements

- **NFR-11:** The system shall be compatible with Windows operating systems.

Maintainability Requirements

- **NFR-12:** The system shall be designed to allow for easy maintenance and updates without significant downtime.
- **NFR-13:** The system shall include logging mechanisms to track system errors and user activities for troubleshooting purposes.

Scalability Requirements

- **NFR-14:** The system shall be designed to accommodate future growth, allowing for additional features and an increasing number of users without significant redesign.