



International Islamic University, Islamabad

Project Report

Event Organizer App

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Advance Computer Programming

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This is a report about semester project made for ACP, it was made using java swing, now we will briefly discuss the project application.

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Event Organizer

Introduction

This Java Swing application functions as a simple event organizer tool. It allows users to create, view, update, and delete event information (CRUD operations). Additionally, the app incorporates user authentication to control access and maintain data integrity.

Functionalities

User Authentication

Login with username and password.

Event Management

- Create new events, specifying details like name, date, time, location, and description.
- View a list of all existing events.
- Update existing event information.
- Delete unwanted events.

User Interface

Provides a user-friendly interface with clear labels, text fields, buttons, and potentially a table for displaying events.

Design

Model-View-Controller

Separate application logic (Model), user interface (View), and user interaction handling (Controller) for better organization and maintainability.

Database:

- Using MySQL database to store event data persistently.
- This allows data to be saved beyond application sessions.

Implementation

User Interface Layout

- Designed the main window with separate sections for login, event management functionalities, and potentially an event list.
- Utilized Swing components like JPanels, JTextFields, JButtons, JTables, etc.

User Authentication

Created a login form with username and password fields.

Event Management

- Developed functionalities for creating, viewing, updating, and deleting events.
- Used appropriate Swing components for user input and data display.
- Connected with database to store and retrieve event data.

Event Data Model

Created a class to represent an Event object, encapsulating its attributes (name, date, time, location, description).

Event CRUD Operations

Implemented methods for adding, fetching, updating, and deleting event objects from the database.

Testing

- Conducted integration testing to verify how different parts of the application interact.
- Manually tested the application with various scenarios to identify and fix bugs.

Conclusion

This Java Swing CRUD application provides a basic framework for managing events. By implementing user authentication and leveraging MVC principles, created a robust and secure tool for organizing events. Get the project [here](#).