
International Islamic University, Islamabad

# Project Report

Event Organizer App

May 27, 2024

M Asad Bashir | 4296-BSSE-F21-A

## Advance Computer Programming

Sir Zohair Ahmed

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

# Contents

# 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.