

Title: Project Proposal

Course title: Object Oriented Programming
Laboratory

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Submitted to-

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Butterfly Fair Management System

Our project revolves around developing a comprehensive Butterfly Fair Management System tailored to efficiently organize and oversee the events surrounding a butterfly fair at our university. Leveraging the versatility and object-oriented features of the C++ programming language, our aim is to create an effective and robust solution.

For Student, this project aims to provide a rich and educational experience, offering insights into the world of butterflies, conservation efforts, and the exciting features planned for the fair.

For fair admin, it serves overall review, workflow and control of the system.

User Experience:

❖ Login Portal:

- Users will encounter a login portal offering two options: the attendee portal and the new account creation option.

❖ User Roles:

- Upon login, users, who can be attendees or organizers, will access services based on their roles.

❖ Attendee Interface:

❖ If the user is an attendee:

- A warm welcome message will greet them with their name.
- Attendees can explore various aspects of the butterfly fair, such as transportation options, butterfly species characteristics, and awareness initiatives.

- To manage their attendance:
 - Attendees can choose their preferred mode of transportation for the day.
 - Select specific features of butterflies they are interested in.
 - Receive information on how to contribute to butterfly conservation.
 - All attendee actions will be recorded in the database, ensuring a dynamic and personalized experience.

Organizer Interface:

- ❖ If the user is an organizer:
 - The system will display a welcoming message indicating their role and privileges.
- Organizers possess the authority to:
 - Manage and approve transportation arrangements for the day.
 - Add or delete information about butterfly species participating in the fair.
 - Approve or cancel attendee registrations.

Main Features:

- **Transportation Management:**
 - Attendees can select and manage their mode of transportation for the day.
- **Butterfly Characteristics:**
 - Attendees can explore and select specific characteristics of butterflies they are interested in.

- **Conservation Awareness:**

- Information and initiatives to raise awareness about the importance of preserving butterfly species.

Database Management:

- Every action taken by attendees and organizers will be recorded in the database, ensuring the program's dynamic nature and providing valuable insights for future events.

The program will have following classes

- Attendee
- Transportation
- ButterflySpecies
- ConservationAwareness
- DatabaseManager