

Database Design (MongoDB)

The application uses MongoDB, a NoSQL document-based database, where data is stored in collections.

Main Collections

1. Users

Stores user information and login details.

Fields: userId, name, email, role, password

2. Events

Stores all event-related details.

Fields: eventId, title, date, venue, organizerId

3. Venues

Stores venue details and capacity information.

Fields: venueId, name, capacity, images

4. Registrations

Stores event registration and attendance status.

Fields: eventId, studentId, status

5. Certificates

Stores certificates issued to students.

Fields: certificateId, eventId, studentId

6. Notifications

Stores notifications sent to users.

Fields: notificationId, userId, message

Reason for Using MongoDB:

Flexible schema, fast performance, scalability, and easy integration with Node.js.