WEBX CA Prerequisites

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Project Report: EventEase - Event Management Web Application

EventEase is a dynamic and user-friendly full-stack event management web application designed to simplify event discovery, creation, and participation. It allows users to browse, search, and filter events through intuitive views like Grid, List, and Calendar. Authenticated users can create, edit, and delete events. The application ensures secure login and signup using bcrypt hashing and stores data using MongoDB and MVC architecture. Responsive UI is implemented using Bootstrap for a seamless experience across devices.

Technology Stack

Layer	Technology	Purpose
Frontend	HTML, CSS, Bootstrap, JavaScript	UI creation, styling, responsiveness, and ba interaction
Templating	Jinja2 (Flask)	Dynamic HTML generation using Python variables and logic
Backend	Python (Flask framework)	Handles routing, business logic, session management
Database	MongoDB (NoSQL)	Stores user data, events, and other applicat data
Security	bcrypt	Password hashing for secure authentication

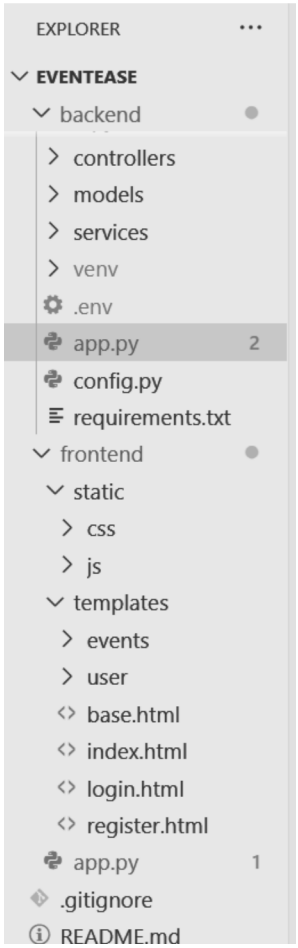
Software Requirements

Component	Specification
Operating System	Windows 10 / Linux / macC
Web Browser	Google Chrome, Firefox, E
Backend Framework	Flask (Python)
Frontend Tools	HTML, CSS, Bootstrap, Jav
Database	MongoDB (NoSQL)
Authentication	bcrypt
Package Manager	pip
Template Engine	Jinja2

System Requirements

Requirement	Minimum
Processor	Intel i3 or equivalent
RAM	4 GB or more
Storage	1 GB of free disk space
Internet	Required for remote MongoDB/Bootstrap CDN

Folder Structure:



Core Features:

- User Signup/Login using bcrypt password hashing
- MongoDB database for event and user data storage
- Event creation, editing, and deletion (CRUD operations)
- Filter and search events by category, location, or name
- Dynamic views using Jinja2 templating (Grid, List, Calendar)
- Responsive and mobile-friendly UI with Bootstrap

Conclusion

EventEase is a secure and responsive event management solution designed with simplicity and usability in mind. It effectively utilizes the Flask framework for backend processes, MongoDB for scalable data handling, and Bootstrap for a modern UI. The project demonstrates robust authentication, flexible data management, and user-centric design. It is ideal for institutions, communities, or organizations that require a quick-to-deploy platform for managing various events.