Eventflow

Funtional and Non-functional requirements

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1. **Functional requirements:**
   1. **User Management**

* The system must allow the users to register, log in and manage their profiles
* Users must have the ability to log in as “Guest” to view the national holidays of a country of their choice
* The system must support different roles:
  + Guest – Can only view national holidays
  + User – Can create, edit, and delete personal events and share them
  + Administrator – Has full control over user profiles and database management
  1. **National Holiday Tracking:**
* Already filled in data for each countries’ national holidays must be present in the calendar
* Each user should have the ability to select a country and see all its national holidays
* Each user should have the ability to bookmark a country of their choice for quick access to it
  1. **Personal Event Management:**
* Users with created profiles can create, delete and edit personal events on their personal calendar
* Each user must have the ability to categories their personal events in category of their choice ( Work, School, Social, etc. )
* The system must allow the users to set a start and end time for their personal events
* Each users should have the ability to create repeating events ( daily, weekly, yearly )
  1. **Event Sharing and Collaboration:**
* Users must be able to invite other users to their personal events. That way they are creating a shared event with others
* Invited users must receive notification when invited to an event and have the option to either accept or decline it
* Shared events must be automatically added to the invitees' calendars if accepted
  1. **Notifications & Reminders:**
* Each user must have the option to set reminders for event of their choice
* Each notification must be sent to the other user vie email
* Each reminder will repeat itself, until it is marked as done
  1. **Security & Data Management:**
* User passwords must be securely stored and hashed in the database

1. **Non-functional requirements:**
   1. **Performance & Scalability:**

* The system must process event creation, updates, and holiday lookups within 2 seconds
* The system must be able to handle thousands of users at a time
* The application must be designed to scale for future features and higher traffic
  1. **Usability and Accessibility:**
* The interface must be user-friendly and scalable across different devices
* The system should support different language for users from different language backgrounds
  1. **Availability and Reliability:**
* Each user should have access to their calendar 24/7 hour in the day
* The application must be uptime 99.9 % of the time
  1. **Constraints:**
* The application requires a connection to the internet to function
* The application will not support an offline functionality in the initial release
* Data storage – the application must store data in a database efficiently and accurately
* Security – the application must store data in a database securely and passwords of the users should be hashed