Software Design and Architecture

“Art Galleries in Macedonia”

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1. **Description**

Macedonia has a plethora of art galleries that embody its cultural heritage. The variety of tapestry and rich traditions together with the innovative art give each art gallery its uniqueness that are located throughout the country. The concept is to develop a web application enabling users to locate nearby art galleries and access comprehensive descriptions of each gallery, including its historical significance. Each description includes the location, working hours, and special exhibitions. Each artist has their own profile detailing their notable works, background, and inspirations. We will provide a section that will show upcoming events and exhibitions for which users can attend. Users will have access to a map for navigation, allowing them to visit any gallery of their choice. Users will be able to leave reviews to share their experience in each gallery. The aim of the app is to provide tourists to visit such remarkable sites as well as promote art appreciation and culture to increase the interest of the locals.

1. **Functional Requirements**
2. The system shall be able to locate the user and direct them to the desired art gallery.
3. The system shall be able to list art galleries in Macedonia.
4. The system shall allow the user to select an art gallery.
5. The system shall display the location of the art gallery.
6. The system shall be able to allow the user to search for their desired criteria.
7. The system should be able to register, log in, and log out.
8. The system shall be able to leave reviews to share experiences in each gallery.
9. The system shall be able to give biographical information about the artist.
10. The system shall be able to email notifications for events like new exhibitions, artwork, additions, or user interaction.
11. Access to activity history, profile picture addition, and customization are all available to users.
12. Admins should be able to see and control user profiles.
13. Reviews and ratings can be left by users for art galleries.
14. Distinct user roles, each having a different level of access (admin, regular user).
15. **Non-Functional Requirements**
16. The application should load the name and description of all the nearby art galleries in an average response time of 1 second.
17. The system should ensure the privacy of users.
18. The system should handle an increased number of users at peak times.
19. The system should have high availability with 99.8% uptime to make the app reliable.
20. The app must have an easy navigation interface for the convenience of all users.
21. Response times for navigation and mapping features should be as short as possible.
22. Administrator functions ought to be limited and call for extra verification.
23. Extensive instructions on how to operate and manage the application for developers and administrators.
24. The app must make sure that the information kept in the database is accurate and consistent.
25. The system should have compatibility with various web browsers.
26. The system should have User-friendly mobile responsiveness across various devices.
27. To avoid data loss, the system should regularly backup your data.