LOGIN AUTHENTICATION

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In partial fulfilment for the award of the degree Of

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE & ENGINEERING



CHITKARA UNIVERSITY
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MAY,2023

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ABSTRACT

The Login Authentication Project is a system designed to enhance the security of user logins by implementing robust authentication mechanisms. The project aims to mitigate the risk of unauthorized access and protect sensitive user information in various digital platforms, such as websites, applications, and systems.

The project utilizes a combination of industry-standard security practices and emerging technologies to establish a multi-layered authentication process. Every website or application demands users to complete the login authentication process to cement their credentials for security and to improve user experience.

Login Form has the following fields:

- **Email**: This input field is used to take the email as input from the user.
- **Password**: This input field is used to take the password as input from the user.
- **Show Password:** This checkbox field is used to display or hide the password to the user. By default, it hides the password.
- **Sign-in button:** This button is used to authenticate and give access to the verified user.
- Forget password?: This link allows the user to change their username or password in case he/she forgets.
- **Sign-up link:** This link takes the user to the signup page in case they want to create a new account.

INTRODUCTION

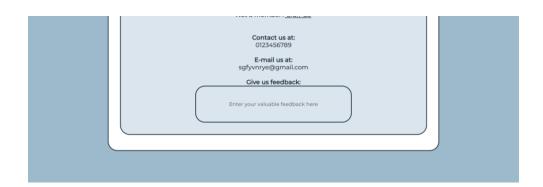
HOME PAGE



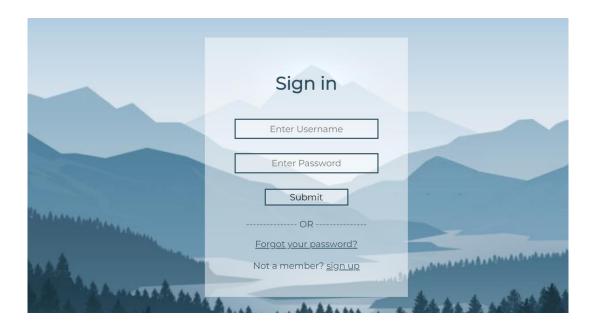
Our Homepage is designed to be a gateway to a wealth of information and services that cater to various aspects of personal wellbeing. Whether you're seeking tips for managing stress, exploring strategies for self-care, or looking for inspiration to lead a healthier lifestyle, you'll find a wide range of resources to suit your needs.

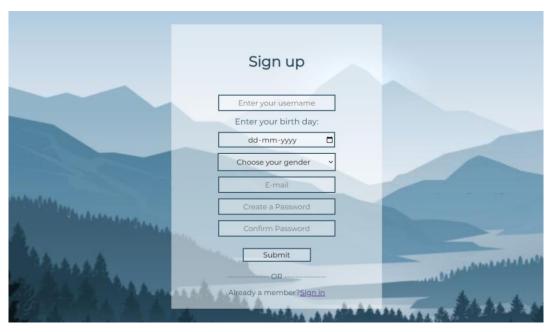
Home page has the following fields:

- **Sign in link:** This link takes the user to the sign-in page so that the user can log in to the progress they have made.
- **Sign up link:** This link takes the user to the sign-up page in case they want to create a new account and subscribe to the personal well-being services.
- Feedback form: This input box allows the user to give their feedbacks on the website and also suggest for the advancement that can be made in the services or in the website.



LOGIN FORM AUTHENTICATION





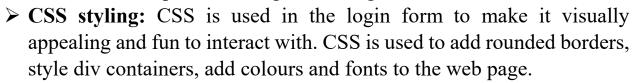
Login authentication is a vital process, widely followed by organizations to keep their servers safe by allowing access only to authenticated users. Every website or application demands users to complete the login authentication process to cement their credentials for security and to improve user experience. In this project users enter their email ID/username and password to log in to the site.

PROBLEM STATEMENT

- ➤ Security: Login authentication helps to prevent authorised access to sensitive data by verifying the identity of the user this helps to protect against malicious attack and unauthorised use of the system.
- ➤ **Privacy:** It helps to protect the privacy of the user by ensuring that only the authorised users can access their personal data or information.
- ➤ Accountability: It can help to establish accountability for actions taken within a system or application by identifying the user who performed the action. It also makes it possible to track and audit user activity.
- ➤ User Experience: Login authentication can improve the user experience by providing personalised access to features preferences and settings it can also help to remember user preference across multiple session.

TECHNICAL DETAILS

- ➤ HTML form: The login authentication page can be created using an html form that includes input fields for username and password in signin window and username, password, confirm password, and other required inputs in sign-up window. The form contains a submit button that triggers a login process.
- > Input fields: there are a variety of input fields used in this project like:
 - <input type = "text">: For text type input like in Username.
 - <input type = "date">: For a date type input which is used for the birthday date of user.
 - <input type = "select">: For a dropdown menu which is used for the gender of the user.
 - <input type = "password">: For a password type input.
 - <input type = "number">: For a number input as in weight and height.



- ➤ Validation: The login form validates the inputs using JavaScript to ensure that the user has entered valid credentials. JavaScript is used to check that any required field is not empty.
- ➤ Local Storage: Local storage is a mechanism that allows web applications to store data locally within the user's we browser. It provides a way to persistently store key value pairs in a simple, synchronous manner.



KEY FEATURES

- ➤ Username/Email and Password: The most fundamental feature of login authentication is the requirement for users to enter a unique username, email address, or user identifier, along with a corresponding password.
- ➤ Input Fields: The main elements on the sign-in page are the input fields where users enter their login credentials. These fields consist of a "Username" or "Email" field and a "Password" field.
- ➤ **Sign-In Button:** A prominent "Sign In" or "Log In" button is provided to initiate the authentication process. Clicking this button submits the entered credentials for verification.
- ➤ Forgot Password: A link or button labelled "Forgot Password" is included to help users recover their account in case they have forgotten their password. Clicking this link sends an email with instructions for resetting the password.
- ➤ **Sign-Up/Registration:** For new users who don't have an account yet, a "Sign Up" or "Register" link/button is typically provided. Clicking this link redirects users to a registration page where they can create a new account by providing necessary details such as name, email address, and choosing a password.
- ➤ Error Messages: In case users enter incorrect or invalid login credentials, the sign-in page displays informative error messages to indicate the issue. These messages help users troubleshoot and correct any mistakes made during the login process.

ADVANTAGES

Login authentication offers several advantages that contribute to the overall security and usability of a system or service. Here are some key advantages:

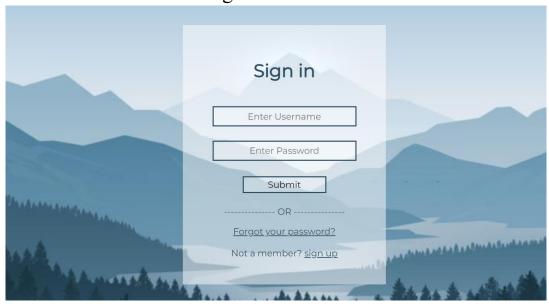
- ➤ Enhanced Security: Login authentication provides a layer of protection against unauthorized access. By requiring users to provide valid credentials, such as a username/email and password, it ensures that only authorized individuals can access sensitive information or perform certain actions within the system.
- ➤ User Accountability: With login authentication, user actions can be traced back to specific accounts. This helps establish accountability within the system, as user activities can be logged and monitored. In the event of any security breaches or inappropriate behaviour, it becomes easier to identify the responsible parties.
- ➤ Protection of Personal Information: Login authentication safeguards personal and confidential information by limiting access to authorized users. By verifying user identity, it helps prevent unauthorized individuals from obtaining sensitive data or impersonating legitimate users.
- ➤ Customized User Experience: Login authentication allows for personalized user experiences. By identifying individual users upon login, systems can offer tailored content, preferences, and settings based on their specific profile. This enhances user satisfaction and engagement.

Overall, login authentication plays a critical role in safeguarding user accounts and sensitive information, promoting user trust, and mitigating security risks. It is an essential component of secure systems and services in today's digital landscape.

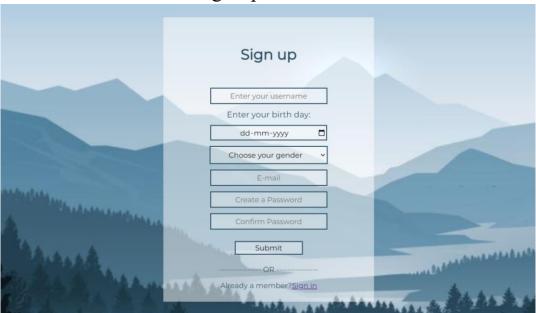
PROJECT HIGHLIGHTS

IMAGES OF THE WEBSITE:

Sign-in window:



Sign-up window:



Forgot password:



CONCLUSION

In conclusion, implementing a robust login authentication system is vital for ensuring the security, privacy, and integrity of user accounts and the associated data. By requiring users to authenticate themselves with unique credentials, such as a username/email and password, login authentication provides a crucial layer of protection against unauthorized access.

It enhances security by verifying user identity, protects personal information, and promotes user accountability. It also enables a personalized user experience, secures data transmission, and offers additional security layers through features like two-factor authentication (2FA).

login authentication systems assist with password management, comply with relevant regulations, and establish trust between users and the system or service. They play a crucial role in maintaining the integrity of user accounts, preventing unauthorized access and misuse, and ensuring a secure and seamless user experience.

By implementing strong login authentication measures, organizations can safeguard their users' accounts, protect sensitive data, and mitigate security risks. It is an essential component of any modern system or service that prioritizes user security and privacy.

REFERENCES/LINKS USED

- ➤ HTML Tutorials W3schoolshttps://www.w3schools.com/html/
- ➤ CSS Tutorials W3schoolshttps://www.w3schools.com/css/
- ➤ JavaScript W3schoolshttps://www.w3schools.com/js/default.asp
- ➤ YouTube- APNA collegehttps://www.youtube.com/watch?v=HcOc7P5BMi4
- ➤ Google FONTShttps://fonts.google.com/