* **Virtual Exhibition**

***REPORT***

In this application, we are needed to create a platform for 3 different kind of users (SuperAdmin, Vendors and Guests) having different roles and powers.

It essentially operates as a MERN application, omitting the use of React.

**Technologies Used: -**

* NODE - Library for application foundation and server.
* EJS - Framework for the Front End in NODE.
* EXPRESS - NODE framework for the Back End.
* Mongo DB - A Cloud NoSQL Database to save data.
* Cloudinary – A Cloud Database to store images and videos.

**Data Storage: -**

There are multiple data models for the data storage based on their nature. So far:-

* User Model – Data model to save Guest’s data.
* Vendor Model – Data model to save Vendor’s data.
* Booth Model – Data model to save booth’s data.
* Event Model – Data model to save Event’s data.

These models are invoked for every CRUD operation in the application.

**User Authorization / Authentication: -**

In an application like this where 3 different categories of users are using it, user authorization and authentication becomes the main concentration.

There is added a 2 way authentication of data so that there is no data redundancy and most importantly data breach.

First, during the data registry with proper Email Verification.

Second, during the user login to the dashboard.

**Home Page: -**

In the home page, there are Choices for registration for the user. The User Registration, Login and Verification are included in the homepage of the application.

* Created the Home Page with Respect to the Design.
* Added options for user to register as Vendor or Guest.
* Added Register / Login Options for the user to choose accordingly.
* Email Verification by sending an Email with One Time Password (OTP).
* Added needed animation in the homepage.
* Forgot Password Option Yet to cover.

**Dash Board: -**

In the dash board, there are different tabs for the User to explore. Only Super Admin and Vendor have the access to the dashboard, not the Guest user.

The dashboard have multiple tabs having different functionality:-

* Dashboard - All the working is displayed in dashboard. Till now only ‘Info Desk’ is displayed.
* All Vendors - A tab where all the vendors registered are displayed. It’s only accessible to the *SuperAdmin*. It’s in the tabular format.
* Add new Vendor – A tab if the superAdmin wishes to add a new vendor willingly. The Email verification will be done when the registered Vendor Logins.
* All User – This tab is separate for Vendor and Super Admin, Where Vendors can see only their users and SuperAdmin can see all the guests registered in the application.
* Events – All The Events are displayed in the Events Tab.
* Booths - All the booth Information will be displayed in the Booths Tab.
* LogOut - This tab exists for the user to Logout from the application.
* Profile - This tab is exists so that the Vendors could edit their personal, contact, business information and also images.
* *Currently working on the image and Video Upload*