**WEB ENGINEERING**

# HOW TO RUN THE PROJECT:

The prerequisites of running this project are MongoDB Community Server for your OS, MongoDb compass and mongosh (MongoDB Shell) as well as the MERN ENVIRONMENT such as Node.js and express to be set up properly as well.  
  
Express can be installed by running the command:  
  
*npm install express*

Run this command in the server directory.

Install these and make sure that mongosh is running properly.  
For now the project is running on localhost of MongoDB.

Before running the project, we need to install some libraries used in the making of SABAQ. These are as follows:

* CORS (Deployed in initial stage of our project when we were connecting with MongoDB Atlas.)   
  It can be installed by the command:  
    
  *npm install cors*  
    
  Run this command in the server directory.
* MONGOOSE (MongoDB package which helps in connection quality with the database.)  
  It can be installed by the command:  
    
  *npm install mongoose*  
    
  Run this command in the server directory.
* AXIOS (It helps to establish POST and GET requests between client and server without declaring HTTP routes etc. hence making function development easier.)  
  It can be installed by the command:  
    
  *npm install axios*  
    
  Run this command in the server as well as client directory.
* MDB-REACT-UI-KIT (This library was used to design our Login Page.)  
  It can be installed by the command:  
    
  *npm install mdb-react-ui-kit*

Run this command in the client directory.

* BOOTSTRAP (The rest of the pages were designed using Bootstrap.)  
  It can be installed by the command:  
    
  *npm install bootstrap*  
    
  Run this command in the client directory.  
  The <script> as well as <link> are already included in the ./client/public/index.html
* FONTAWESOME (Font and images were also used in some pages.)  
  It can be installed by the command:  
    
  *npm install* *--save @fortawesome/fontawesome-svg-core*  
  *npm i --save @fortawesome/free-solid-svg-icons*

*npm i --save @fortawesome/free-regular-svg-icons*Run these commands in the client directory.

* HOWLER (The sounds in all the pages are played using Howler.)  
  It can be installed by the command:  
    
  *npm install howler*  
  Run this command in the client directory.
* JWT (This library is used to store user information inside JWT tokens upon successful authentication on the Login Page so that this token can be decrypted to set username and password in order to update users progress in the database.)  
  It can be installed by the command:  
    
  *npm install jsonwebtoken*Run this command in the server as well as client directory.

**After installing the mentioned libraries , the project can be started by running the command (node index.js) in the server directory and (npm start) in the client directory.**

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