**Codechef Assignment Details/procedure**

1. **npx create-react-app ./ :** to configure react at front-end. Deleted some of the additional files and code written. Also changed favicon and app name.
2. **Importing necessary libraries : npm I -** styled-components , miui react icons
3. Building front end:
   1. Navbar containing logo and login/signup button, alert message at center of navbar
   2. Creating login and signup forms
   3. Creating 5 static posts present at context as an array of objects
   4. Creating a textfield to post comment and will be visible to only logged in users
   5. Creating showMessages section which will show for both logged in and logged out users
4. Building backend:
   1. Download Xampp -> config mysql -> start apache server + mysql (already config in my pc)
   2. Open htdocs folder in xampp folder and created apis/codechef\_api folders.
   3. Created 2 folders name includes, requests
   4. Includes contains file like dbconnect , createDb;
   5. Include headers
   6. In post folders, created diff .php files. All serving as different requests
   7. So the api url is <http://localhost/apis/codechef_api/requests/xyz.php>
   8. Using these apis to login, register, addcomment, fetchcomments, and other functions
5. Hosting on EC2
   1. Sign in to aws
   2. Go to ec2 services and launch a new instance
      1. Save key pair (private key file) and change its access to its owner only
      2. Change inbound securities
   3. Connect to server using “ssh –i <key-pair file> ec2-user@<public ipv4>”
   4. Open manual from aws and download files ,give privileges and set root password
   5. Connect to winSCP with
      1. Host name – public ipv4
      2. Username – ec2-user
      3. Password – “saved”
      4. Go to advance->authentication->private key file add key-pair file
      5. Login.
      6. Apis are accessible at url “http://<public ipv4>/api.php”
   6. Drag and drop apis in var/www/html/.. folder
   7. Create build folder in react app
   8. Push the code to git
   9. Clone git into root/ec2-user folder.
   10. Use pm2 to make application work available 24\*7