Codechef Contest Arena

How to Start this Application?

- 1. Go to url http://a73d8dc1.ngrok.io
- 2. Sign in with Codechef credentials.
- 3. You will be redirected to home page where you will have access to different contests.

Tech Stack

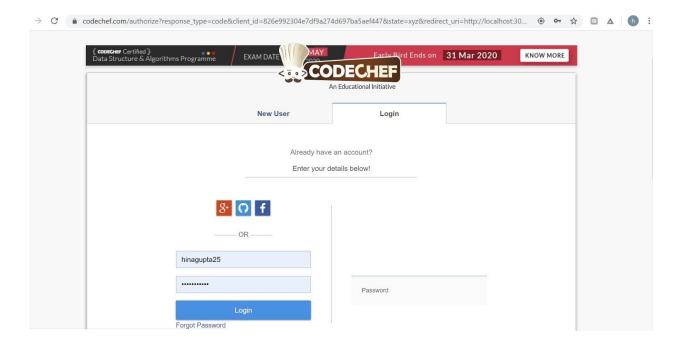
- 1. Javascript: Primary programing language
- 2. CSS: Styling web pages, HTML files
- 3. ReactJS: Javascript library for building User Interfaces
- 4. External API: Codechef

Approach

OAUTH 2.0

Codechef Contest Arena is a webpage which can be used by any authorized user to participate in various contests that are conducted by Codechef. When the application loads up,the user is asked to authorize .Then a POST request is sent to the API api.codechef.com/oauth/token with authorization code and then

AccessToken,RefreshToken are fetched which are then saved in localstorage of the browser.



After this an AutoComplete Box is displayed which contains Contest Names and ContestCodes.When one of them is selected by the person, a GET request is sent to the API api.codechef.com/contests/{contestCode} and details of that contest is fetched.A clickable list of problems and Ranklist of the contest are shown.

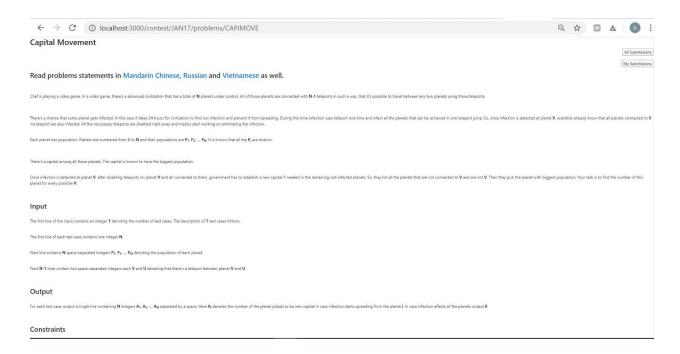




Further when a user selects any problem by clicking on the link a GET request is sent to the API $api.codechef.com/contests/{contestCode}/problems/{problemCode} and complete details of the problem are fetched. And if user clicks on Go to Contest ranks then another GET request is sent to the API$

api.codechef.com/rankings/{contestCode}which will give the rank list of the users
with scores.

← → C ○ localhost:3000/rankings/JAN17							
RankList for JAN17							
Usernames	Score						
ceilks	1000.000						
ccz181078	993.616						
jobasha	993.056						
mirosuaf	991.532						
swm_sxt	983.009						
jtnydv25	967.764						
adkroxx	964.298						
hellkitsune	963.682						
skyfire	961.421						
notimesea	957.673						
chaemon	957.273						
	Ceilks ccz181078 jobasha mirosuaf swm_sxt jtnydv25 adkroxx hellkitsune skyfire notimesea						



Further users can view submissions for the problem by clicking on the All Submissions button .A GET request will be sent to the API

api.codechef.com/submissions/?problemCode={problemCode} &contestCode={contestCode}
stCode} and a list of users with all information about submissions will be fetched.

← → C ① loc	← → C ① localhost:3000/submissions/JAN17/CAPIMOVE						
Submissions for CAPIMOVE							
ld	Language	Username	Result	Score	Time	Memory	
12600336	C++ 4.9.2	ysumit99	CTE	0	0	0	
12600326	C++ 4.9.2	pushkar_2196	AC	50	0.75	5036	
12600309	C++ 4.9.2	thanatoz	WA	0	0	3292	
12600298	C++14	aanchal1308	WA	0	0	0	
12600283	C++ 4.9.2	pushkar_2196	AC	20	0	3288	
12600258	С	as7664	AC	50	0.25	11552	
12600237	PYTH	phoenix108	AC	20	0.01	7752	
12600220	C++ 4.9.2	pushkar_2196	AC	20	0	3288	
12600196	C++14	sunayan_1996	AC	100	0.36	5020	
12600141	C++ 4.9.2	pushkar_2196	AC	20	0	3288	

Folder Structure



NPM packages used

react-html-parser

- query-string
- Browser Router,Link,Route
- PropTypes
- react-dom

I really enjoyed working on this web app. Through this project I have learnt a lot as it was my first web application.

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