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Competitive Programming Contest Lister

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ABSTRACT

The Contest Lister Application is a web based platform designed to meet the needs of programmers, hackathon enthusiasts and coding aspirants. It serves as a hub where users can discover, track and participate in coding contests, hackathons and hiring challenges hosted on various well known competitive programming platforms like CodeChef, HackerRank and LeetCode. However since these contests are spread across platforms it can be challenging for participants to stay updated on the latest events manage their schedules effectively and choose contests that align with their interests and skills.

To address these challenges and enhance the experience of programmers, the Contest Lister Application aims to provide a convenient solution. Its main objective is to streamline the process of discovering and accessing coding contests in an effortless manner. Through its user interface users can explore a comprehensive list of contests from different platforms access contest details easily including direct links to participate in them directly if desired. Additionally they can set reminders for events.

Keywords – Competitive Programming, Hiring, Hackathon, Coding Contest, Schedule Interface.

I. INTRODUCTION

In todays evolving digital landscape competitive coding has become an exciting discipline that attracts coders from all, over the world. It provides a chance for coding enthusiasts to improve their programming abilities participate in worldwide competitions and build a strong basis for successful careers in software development. With the growing popularity of coding platforms such as Codeforces, CodeChef, LeetCode and HackerRank, in

the coding community a new challenge arises; how to effectively handle the intricacies of multiple contests keep track of numerous events and ensure active engagement..

This shift in the way coding competitions are conducted presents both challenges and opportunities. The contest lister project was created to make it easier for coders to navigate and engage with the growing world of programming. Its goal is to simplify the complexities involved in participating in and managing coding contests across different online platforms..

LITERATURE SURVEY

I.SCENARIO

The field of coding is growing rapidly due to the digital era and the increasing demand for skilled software developers.

Prominent coding platforms such as CodeChef and HackerRank have established themselves as the destinations for coding enthusiasts.

Users face the challenge of managing contest schedules staying updated with event details and optimizing their participation.

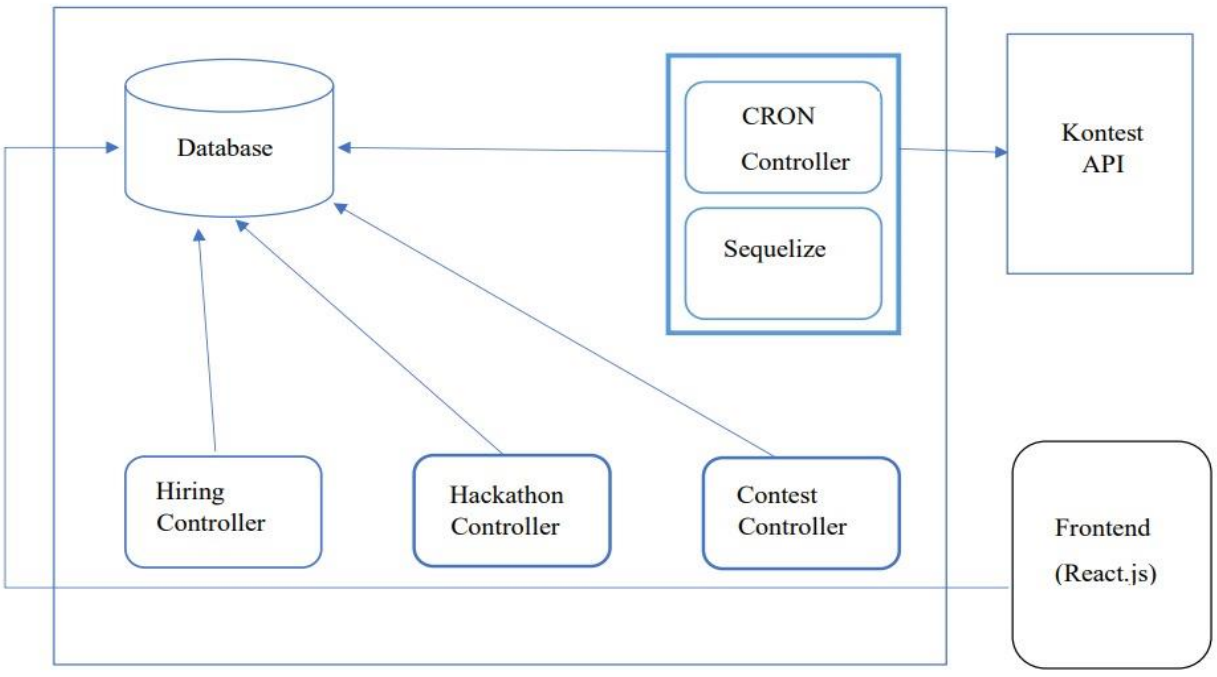
II.DATA COLLECTION

The foundation of the contest project relies on meticulous data gathering. This involves integrating with leading coding platforms like CodeChef and HackerRank through APIs.

In addition to API based data retrieval the project utilizes web scraping techniques to extract detailed contest information. This includes contest names, hosting platforms, URLs, contest durations and precise timing details.

All collected data undergoes organization and is stored in a PostgreSQL database. This architecture ensures real time updates. Provides easy user-friendly access.

SYSTEM ARCHITECTURE



ALGORITHM

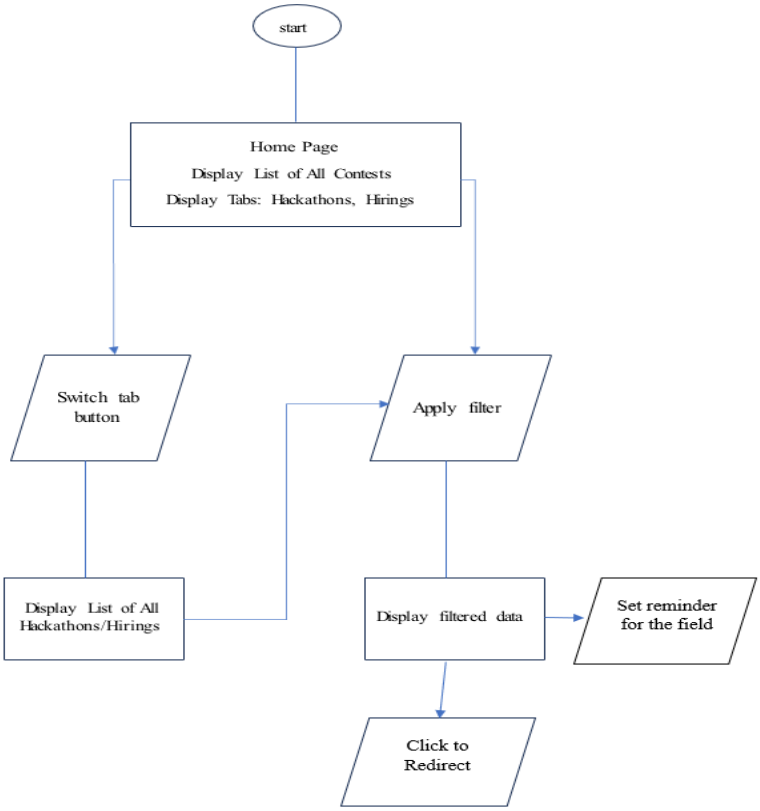
Step I: Start
Step II: Primary Window/Page Opens
Step III: Default page opens for the showing the contests available on various platforms.
Step IV: Users will select the option whether they want to retrive current hiring opportunities or hackathons.
Step V: For the selected field users can apply various filters on the basis of platform or the timeline.
Step VI: Click filter button.
Step VII: Users can set reminders based on time or date.
Step VIII: End.

FUTURE SCOPE

The contest lister project is continuously expanding and improving, promising advancements; The implementation of advanced algorithms for recommending contests is, on the horizon. These algorithms will utilize user data to offer contest suggestions that align with individual preferences and expertise. The project aims to broaden its reach by integrating with coding platforms. This will result in an extensive database for contests.

In the future the platform might include user profiles providing participants with a place to monitor and evaluate their performance, achievements and areas for improvement, in contests. The contest listing team is currently investigating mobile app development to create a platform that users can access while on the move ensuring they never miss out on any thrilling coding competitions.

FLOWCHART



CONCLUSION

The contest lister project is a step towards simplifying the intricate landscape of coding contests, hackathons and hiring challenges that exist across various online platforms. It stands out for its user interface real time updates on contest information and dedication to making the coding experience smoother, for enthusiasts. As the project continues to develop and adapt it promises a future with ongoing improvements that will benefit and empower coders worldwide.

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