Design and Implementation of Track2Crack: A Web-Based Placement Preparation and Progress Tracking System

Dr. V. Krishna Priya[1], Dr. M. Jaithoon Bibi[2], Ramya G. S[3]

Department of Computer Science with Cognitive Systems,
Sri Ramakrishna College of Arts & Science, Coimbatore, India[1,2,3]

Abstract —

Placement preparation has become an essential requirement for students seeking career opportunities in competitive environments. Students are expected to manage aptitude practice, coding preparation, resume development, interview training, and company-specific preparation simultaneously. However, many students struggle due to scattered resources, lack of planning, and absence of proper progress monitoring mechanisms. In this paper, Track2Crack, a web-based placement preparation and progress tracking system, is proposed to provide a centralized solution for managing placement activities. The system integrates multiple modules including goal tracking, daily planning, skill monitoring, coding practice tracking, company preparation tracking, and performance analytics. The application is developed using HTML, CSS, and JavaScript with browser-based storage for maintaining user data and preparation records. The proposed system aims to improve organization, consistency, and productivity among students while reducing dependency on multiple platforms. By providing a structured preparation environment, Track2Crack supports students in enhancing their readiness and confidence for campus placement opportunities.

Keywords: Placement Preparation, Progress Tracking, Web Application, Goal Tracking, Skill Monitoring

1.INTRODUCTION

In today's competitive academic and professional landscape, campus placement has become one of the most significant milestones in a student's career journey. Organizations increasingly expect candidates to possess strong aptitude, technical knowledge, communication skills, and practical experience. As a result, students must simultaneously prepare for multiple aspects such as aptitude tests, coding challenges, technical interviews, group discussions, and resume development. Managing these activities effectively requires structured planning and continuous progress monitoring.

Despite the availability of numerous online learning platforms, students often rely on multiple applications for different preparation tasks. Aptitude preparation may be performed on one platform, coding practice on another, and resume building on a separate tool. This fragmented approach leads to inconsistency, difficulty in tracking progress, and reduced motivation. Additionally, many students lack proper planning strategies, which further affects their placement readiness and confidence.

To address these challenges, centralized preparation management systems have gained research interest. Such systems aim to integrate planning, tracking, and performance evaluation within a unified platform. By providing a structured environment, centralized systems can improve organization, enhance productivity, and support continuous improvement among students.

This paper proposes Track2Crack, a web-based placement preparation and progress tracking system designed to support students in managing their preparation effectively. The system integrates multiple modules that allow users to set goals, plan daily tasks, monitor skill development, track coding practice, and evaluate preparation progress. The primary objective of this research is to demonstrate how an integrated digital platform can improve placement preparation management and contribute to enhanced career readiness among students.

2.RELATED WORK

Over the years, various digital platforms have been developed to support students in placement preparation. Traditional learning websites provide aptitude questions, coding exercises, and technical interview resources that help students strengthen their knowledge. Some platforms also offer resume-building tools and company-specific preparation materials. These systems have improved accessibility and flexibility in learning, enabling students to prepare at their own pace.

Research has also highlighted the importance of planning and self-monitoring in academic performance improvement. Goal tracking systems and productivity applications have been shown to enhance motivation and learning consistency by enabling users to define targets and monitor task completion. Similarly, skill monitoring systems help individuals evaluate their progress and identify areas that require improvement.

However, most existing placement preparation solutions focus on individual functionalities rather than providing an integrated environment. Students are often required to use multiple tools for planning, practicing, and tracking, which results in fragmented preparation experiences. Furthermore, many systems lack comprehensive progress analytics that can provide insights into overall readiness levels.

Therefore, there is a need for a unified placement preparation platform that combines planning, tracking, and performance evaluation features. The proposed Track2Crack system aims to address this research gap by integrating multiple preparation modules into a single user-friendly application.

3.PROPOSED SYSTEM

The proposed Track2Crack system is designed as a centralized placement preparation platform that integrates multiple functionalities within a unified environment. The main objective of the system is to assist students in organizing their preparation activities, monitoring progress, and maintaining consistency throughout their placement journey.

The system allows users to create preparation goals related to aptitude practice, coding tasks, and skill development. These goals serve as structured targets that guide daily preparation activities. In addition, the system includes a daily planner module that enables users to schedule and track day-to-day preparation tasks, thereby improving time management and discipline.

A skill monitoring module is incorporated to allow students to record and evaluate their technical and non-technical skill development. The system also includes coding practice tracking and company preparation modules that support targeted preparation strategies. By integrating these features, Track2Crack provides a comprehensive preparation environment that reduces dependency on multiple platforms.

The application is implemented using HTML, CSS, and JavaScript to provide an interactive and user-friendly interface. Browser-based storage mechanisms are utilized to maintain user data and preparation records, ensuring continuity and accessibility. Overall, the proposed system aims to improve preparation efficiency and provide students with a structured approach to placement readiness.
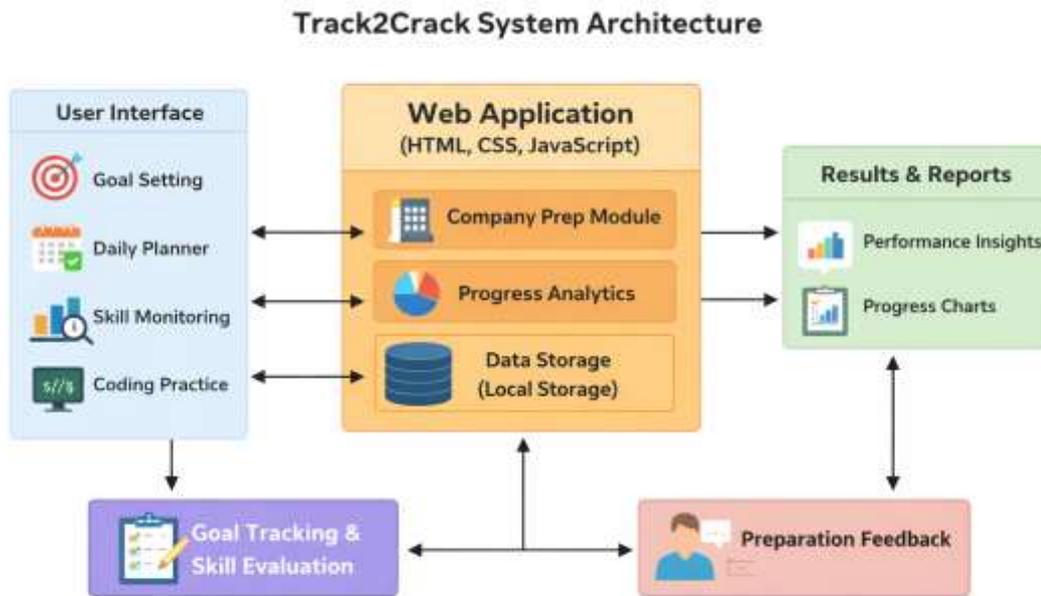
Fig-1: Track2Crack System Architecture

4.RESULTS AND DISCUSSION

The implementation of Track2Crack resulted in a functional web-based application that integrates multiple placement preparation modules within a single interface. The system allows users to manage goals, plan daily activities, monitor skill development, and track preparation progress effectively. The user interface is designed to be simple and intuitive, enabling smooth navigation across modules.

The integrated architecture of the system provides a centralized environment for preparation management, which reduces confusion associated with using multiple tools. Users can visualize their progress through module-based tracking features, which enhances motivation and supports consistent preparation behavior.

Compared to traditional placement preparation approaches, Track2Crack offers improved organization and monitoring capabilities. The availability of planning and tracking functionalities within a unified platform contributes to enhanced productivity and preparation discipline. However, the current implementation relies on browser-based storage, which may limit multi-device accessibility and long-term scalability.

5.CONCLUSION

In this paper, Track2Crack, a web-based placement preparation and progress tracking system, was presented as a solution to address challenges associated with fragmented placement preparation practices. The proposed system integrates multiple modules that support goal setting, daily planning, skill monitoring, coding practice tracking, and performance evaluation within a centralized platform.

The implementation demonstrates that an integrated preparation management system can improve organization, consistency, and productivity among students. By reducing dependency on multiple applications and providing structured preparation support, Track2Crack contributes to enhanced placement readiness and confidence. Future

enhancements may include cloud-based storage, advanced analytics, and intelligent recommendation features to further improve system effectiveness and scalability.

REFERENCES

1. I. Sommerville, *Software Engineering*, 10th ed., Pearson Education, 2016.

2. R. S. Pressman and B. R. Maxim, *Software Engineering: A Practitioner's Approach*, 8th ed., McGraw-Hill, 2015.

3. A. Silberschatz, H. F. Korth, and S. Sudarshan, *Database System Concepts*, 7th ed., McGraw-Hill, 2020.

4. J. Duckett, *HTML and CSS: Design and Build Websites*, John Wiley & Sons, 2011.

5. J. Duckett, *JavaScript and JQuery: Interactive Front-End Web Development*, John Wiley & Sons, 2014.

6. T. H. Cormen, C. E. Leiserson, R. L. Rivest, and C. Stein, *Introduction to Algorithms*, 3rd ed., MIT Press, 2009.

7. Mozilla Developer Network, "Web Development Documentation." Available: https://developer.mozilla.org

8. W3Schools, "Web Development Tutorials." Available: https://www.w3schools.com

9. B. J. Zimmerman, "Self-regulated learning and academic achievement: An overview," *Educational Psychologist*, vol. 25, no. 1, pp. 3–17, 1990.

10. A. Bandura, *Self-Efficacy: The Exercise of Control*, W.H. Freeman, 1997.