D.Y.PATIL COLLEGE OF ENGINEERING & TECHNOLOGY,

KASABA BAWADA, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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A

Project-II

Synopsis on

"Code M8"

Submitted by:

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<u>ABSTRACT</u>

In the fast-paced and competitive environment of hackathons, assembling a well-rounded and complementary team can be a significant challenge. Participants often struggle to find suitable team members with the right mix of skills, interests, and experience, which can hinder the collaborative process and reduce overall productivity. **Code Mate** is a platform designed to streamline the team-building experience by providing users with a space to connect, collaborate, and form teams based on shared goals and complementary skills.

This application enables users to post detailed team requirements, browse potential teammates, and join teams for various hackathons, ensuring that participants find the right fit for their needs. Additionally, it allows users to explore ongoing and upcoming hackathon opportunities, view event objectives, and connect with teams that align with their expertise and preferences. By simplifying the process of team formation, Code Mate fosters a community-driven approach to hackathons, enhancing collaboration, innovation, and the overall hackathon experience.

This project aims to revolutionize how participants interact in hackathons, making it easier for individuals to find their ideal teams and maximize their potential in coding competitions.

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1. INTRODUCTION

In the dynamic world of hackathons, forming a cohesive and skilled team is crucial for success. However, finding the right team members who complement each other's skills and align with project goals can be challenging. Code Mate addresses this need by offering a dedicated platform for individuals to connect and collaborate on hackathon projects. The application is designed to bridge the gap between participants by allowing users to post detailed team requirements and search for potential teammates based on their skills, interests, and experience levels.

Code Mate's intuitive interface streamlines the team-building process, enabling users to efficiently find and join teams that match their expertise and project preferences. By fostering a community-driven approach to team formation, Code Mate not only enhances individual participation but also promotes successful collaboration and innovation. This platform aims to revolutionize the hackathon experience by making it easier for participants to find their ideal team and maximize their potential in competitive coding events.

2. PROBLEM STATEMENT

To address the common challenge hackathon participants, face in finding suitable team members with the right mix of skills and interests, we propose a solution that facilitates seamless team formation

3. OBJECTIVE

- ➢ To develop an app that provides users with the capability to post detailed information about hackathons, including event objectives, deadlines, required skills, and team roles.
- ➢ To develop an app that allows users to request to join teams for posted hackathons, facilitating seamless team formation and participation.
- ➢ To develop an app that displays a list of ongoing and upcoming hackathons, enabling users to view and explore available opportunities based on their interests and preferences.
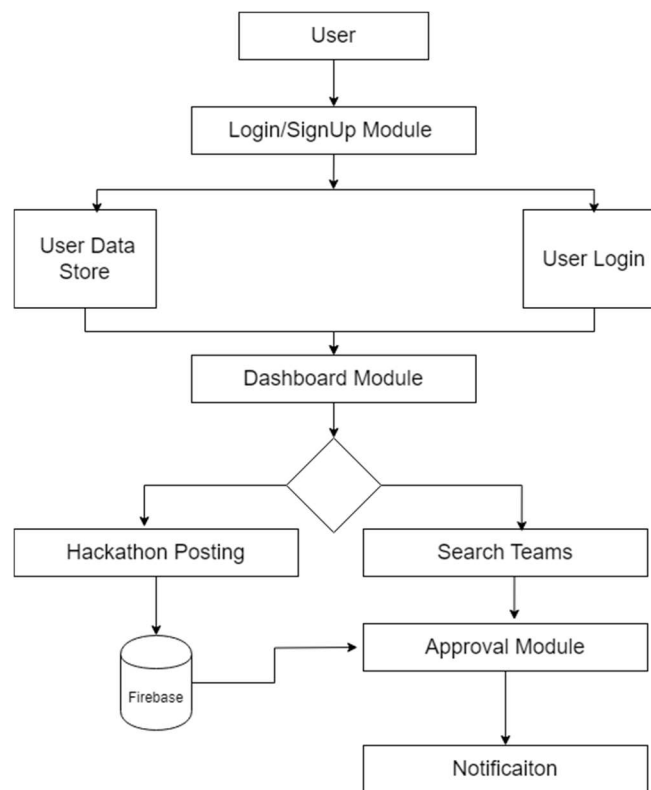
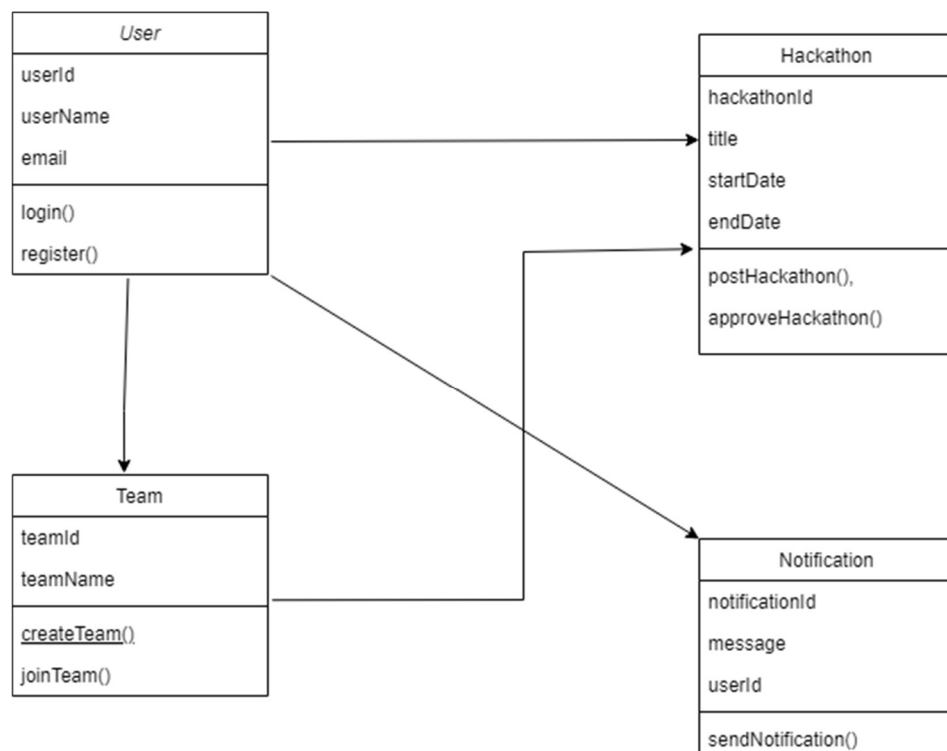# 4. PROPOSED SYSTEM ARCHITECTURE

Figure 4.1 User Flow Diagram

Figure 4.2 Class Diagram

5. MODULES

- **Login/Signup Module:** Facilitates user account creation and secure login. Includes features for password recovery and account management to ensure users can access their profiles and settings. Supports both email and social media logins for convenience.

- **Dashboard Module:** Showcases live hackathons that users have posted, including detailed information such as event dates, team requirements, and project descriptions. Provides a user-friendly interface for managing posts, tracking responses, and updating hackathon details.

- **Hackathon Posting Module:** Allows users to create and submit detailed hackathon posts, including objectives, deadlines, required skills, and roles. Features options for editing or deleting posts and includes a preview option before final submission.

- **Approval Module:** Enables users who have posted hackathons to review and approve or reject team membership requests. Provides notifications for new requests, a review interface for assessing applicant profiles, and the ability to communicate directly with applicants for further discussion.

6. SYSTEM REQUIREMENT

A] System requirements for User:

Software requirements:

- Android version 5.0 and above.

Hardware requirements:

- Android phone.
- 2GB RAM (Recommended)

B] System requirements for developer:

Software requirements:

- Android Studio
- Firebase

Hardware requirements:

- Android Phone
- Android Virtual device

7. CONCLUSION

Code Mate aims to make hackathons easier by helping users form teams quickly and effectively. It lets users create and join teams by posting their needs and browsing profiles. The app also integrates with WhatsApp for easy communication and suggests nearby team members based on location. These features make it simpler for participants to connect, collaborate, and succeed in hackathons, leading to better teamwork and more innovative projects.

8. REFERENCE

[1] Tanushree Sanwal, Sapna Yadav, Sandhya Avasthi, Ayushi Prakash, Meenakshi Tyagi, "Social Media and Networking Applications in the Education Sector", 2nd Edition of IEEE Delhi Section Flagship Conference (DELCON), 2023

Class: TY   **Division : A**

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