NEWS FEED APPLICATION

A PROJECT REPORT

Submitted by

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in partial fulfillment of requirements for the award of the course

AGB1211 – DESIGN THINKING

in

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY

(An Autonomous Institution, affiliated to Anna University Chennai and Approved by AICTE, New Delhi)

SAMAYAPURAM – 621 112

DECEMBER, 2024

K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY (AUTONOMOUS)

SAMAYAPURAM – 621 112

BONAFIDE CERTIFICATE

Certified that this project report on **"NEWS FEED APPLICATION"** is the bonafide work of **LALITH KISHORE(2303811724321059),LOGESHWARAN (2303811724321061),MAHESHWARAN(2303811724321063)** who carried out the project work during the academic year 2024 - 2025 under my supervision.

Signature

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SUPERVISOR,

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Submitted for the viva-voce examination held on 5.12.24

INTERNAL EXAMINER **EXTERNAL EXAMINER**

DECLARATION

I declare that the project report on "**NEWS FEED APPLICATION**" is the result of original work done by us and best of our knowledge, similar work has not been submitted to "**ANNA UNIVERSITY CHENNAI**" for the requirement of Degree of **BACHELOR OF TECHNOLOGY**. This project report is submitted on the partial fulfillment of the requirement of the award of the **AGB1211 – DESIGN THINKING.**

Signature

LALITH KISHORE N S

LOGESHWARAN A

MAHESWARAN A

Place: Samayapuram

Date: 5/12/2024

ACKNOWLEDGEMENT

It is with great pride that I express our gratitude and indebtedness to our institution, **"K. Ramakrishnan College of Technology (Autonomous)",** for providing us with the opportunity to do this project.

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I wish to convey our profound and heartfelt gratitude to our esteemed project guide **Mrs.S.GEETHA M.E**., Department of **ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**, for her incalculable suggestions, creativity, assistance and patience, which motivated us to carry out this project.

I render our sincere thanks to the Course Coordinator and other staff members for providing valuable information during the course.

I wish to express our special thanks to the officials and Lab Technicians of our departments who rendered their help during the period of the work progress.

VISION OF THE INSTITUTION

To serve the society by offering top-notch technical education on par with global standards.

MISSION OF THE INSTITUTION

- Be a centre of excellence for technical education in emerging technologies by exceeding the needs of industry and society.
- Be an institute with world class research facilities.
- Be an institute nurturing talent and enhancing competency of students to transform them as all- round personalities respecting moral and ethical values.

VISION AND MISSION OF THE DEPARTMENT

To excel in education, innovation and research in Artificial Intelligence and Data Science to fulfil industrial demands and societal expectations.

Mission 1: To educate future engineers with solid fundamentals, continually improving teaching methods using modern tools.

Mission 2: To collaborate with industry and offer top-notch facilities in a conductive learning environment.

Mission 3: To foster skilled engineers and ethical innovation in AI and Data Science for global recognition and impactful research.

Mission 4: To tackle the societal challenge of producing capable professionals by instilling employability skills and human values.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: Compete on a global scale for a professional career in Artificial Intelligence and Data Science.

PEO 2: Provide industry-specific solutions for the society with effective communication and ethics.

PEO 3: Hone their professional skills through research and lifelong learning initiatives.

PROGRAM OUTCOMES

Engineering students will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- **PSO 1:** Capable of working on data-related methodologies and providing industry-focussed solutions.
- **PSO2:** Capable of analysing and providing a solution to a given real-world problem by designing an effective program.

ABSTRACT

The news feed application is a project aimed at delivering a simple and organized platform for browsing news content. The application focuses on providing an intuitive and visually appealing interface, ensuring users can access information quickly and efficiently. However, the current version is static and lacks dynamic functionalities such as real-time updates, personalized feeds, and advanced features like search and filtering. Additionally, limitations in responsiveness and performance highlight opportunities for optimization. This project lays the foundation for future enhancements, including API integration, user-centric features, and improved scalability, to create a more dynamic and engaging experience for users.

TABLE OF CONTENTS

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

The news feed application is designed to provide users with an organized platform to access and explore news content seamlessly. It focuses on presenting information in a visually appealing and user-friendly manner, ensuring ease of navigation and engagement. While the application serves as a foundational step toward delivering a functional news platform, it also highlights areas for improvement, such as dynamic updates, personalization, and advanced interactivity. This project aims to bridge the gap between simplicity and functionality, creating a platform that caters to the evolving needs of modern users.

1.2 PROBLEM STATEMENT

Users often prefer concise summaries over detailed content, focusing on quickly understanding the essence of the news. However, the application currently lacks scalability and the ability to provide real-time updates or personalized news feeds, limiting its relevance and engagement. Additionally, the absence of advanced features such as search, filtering, and user preferences reduces usability and fails to meet modern user expectations. Performance issues, such as unoptimized media files, further hinder the user experience by increasing load times. Moreover, the app’s lack of responsiveness affects its usability across diverse devices, making it less accessible and less appealing to a wider audience.

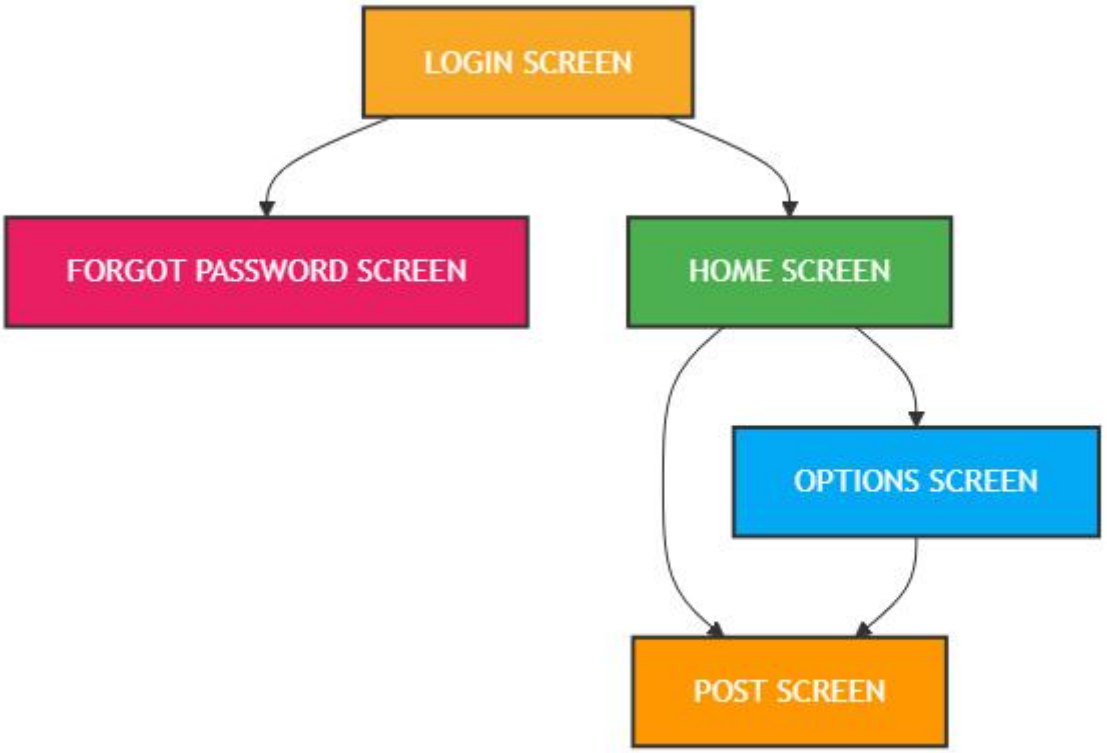
1.3 OBJECTIVE

The primary objective of the news feed application is to provide users with anorganized, user-friendly platform to access and browse news content. It aims to deliver relevant and up-to-date information efficiently while ensuring a visually appealing and responsive interface. The application focuses on enhancing the user experience by offering easy navigation, seamless interaction, and a foundation for future personalization and dynamic content integration.

CHAPTER 2

PROJECT METHODOLOGY

2.1 BLOCK DIAGRAM



CHAPTER 3
KEY PHASES OF DESIGN THINKING

3.1 EMPATHIZE

- Conducted surveys and interviews to understand user needs, preferences, and pain points related to consuming news online.
- Identified that users prioritize quick access to concise news, real-time updates, and personalization features.
- Observed existing platforms to learn how users interact with similar applications.

3.2 DEFINE

- Problem Statement: "Users want a simple and responsive platform that provides concise, up-to-date news while addressing the lack of personalization and advanced features like search and filtering."
- Core Needs: A clean interface, fast performance, and personalized content tailored to user interests.

3.3 IDEATE

- Brainstormed potential solutions, including integrating APIs for real-time news updates and adding search, filtering, and user preference options.
- Explored responsive design principles to improve accessibility across devices.
- Conceptualized a side-bar for navigation and a post screen for detailed article views.

3.4 PROTOTYPE

- Used Figma's prototyping features to link screens, simulate user interactions, and create a seamless flow for the news feed application.
- Leveraged Figma's cloud-based platform for real-time collaboration, feedback, and iteration during the prototype development process.

3.5 TEST

- Conducted user testing to gather feedback on the prototype’s usability and design.
- Identified areas for improvement, such as adding responsiveness, optimizing media files, and incorporating interactive elements.

CHAPTER 4

MODULE DESCRIPTION

4.1 LOGIN SCREEN

The Login Screen allows users to securely access their accounts. It includes fields for entering credentials like username and password. This module ensures authentication and user verification.

4.2 FORGOT PASSWORD SCREEN

The Forgot Password Screen helps users recover their accounts in case they lose access. It provides options like email-based recovery or OTP verification. This module ensures security while making account recovery simple.

4.3 HOME SCREEN

The Home Screen displays the main news feed, showcasing articles in an organized layout. It serves as the central hub for accessing news content. This module focuses on usability and visual appeal.

4.4 OPTIONS SCREEN

The Options Screen acts as a navigation menu, allowing users to switch between different sections of the app. It provides quick access to features like settings, categories, or saved articles. This module enhances navigation and accessibility.

4.5 POST SCREEN

The Post Screen displays detailed content for selected news articles. It includes the full story, images, and related links. This module ensures an engaging reading experience for users.

CHAPTER 5
CONCLUSION

The news feed application serves as a foundational platform for delivering organized and accessible news content to users. With its simple design and user-friendly interface, it provides an efficient way for users to browse and interact with information. While the current version is static and lacks dynamic functionalities, it highlights opportunities for improvement, such as real-time updates, personalization, and advanced features like search and filtering. By addressing these gaps, the application has significant potential to evolve into a scalable, responsive, and engaging platform that meets modern user expectations.

REFERENCES:

· **Figma** (Official Channel)

- Official tutorials and tips directly from Figma, including beginner and advanced techniques.
- Visit Figma's Official Channel

· **DesignCourse**

- Focuses on UI/UX design with practical examples, including Figma design tutorials.
- Visit DesignCourse

· **Figma Tutorial**

- A channel dedicated to providing quick and helpful tutorials on Figma's various features and tools.
- Visit Figma Tutorial

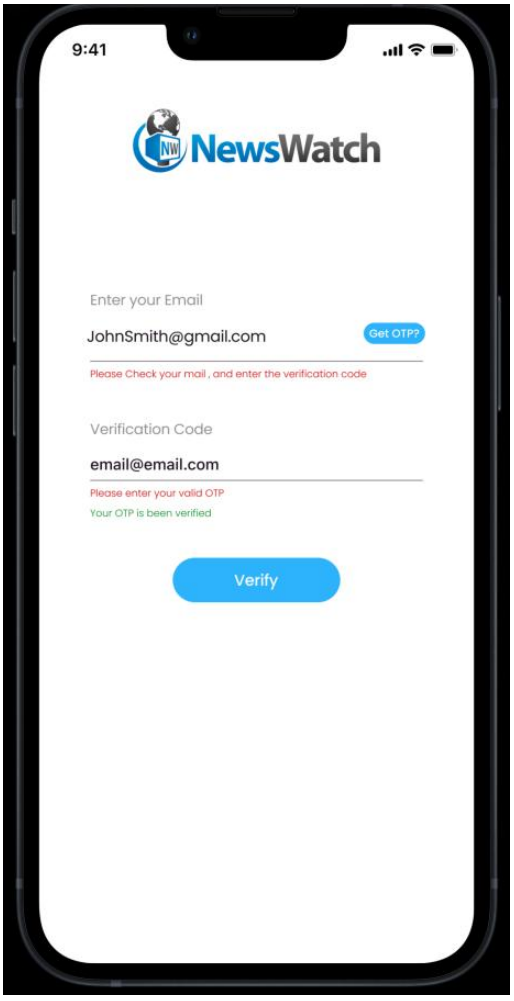
· **Flux Academy**

- A great resource for UI/UX design, focusing on professional-level design practices using Figma.
- Visit Flux Academy

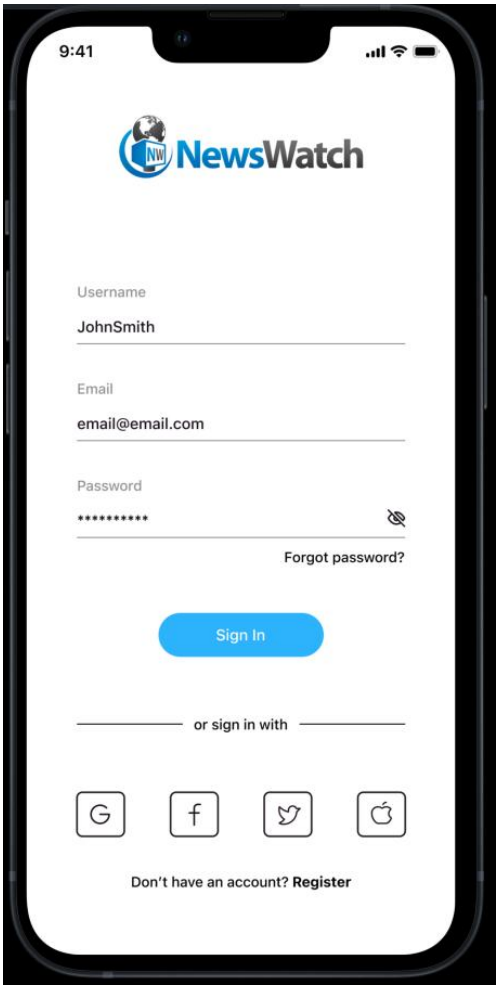
· **Figma Design System**

- Tutorials focusing on creating design systems, components, and UI kits using Figma.
- Visit Figma Design System

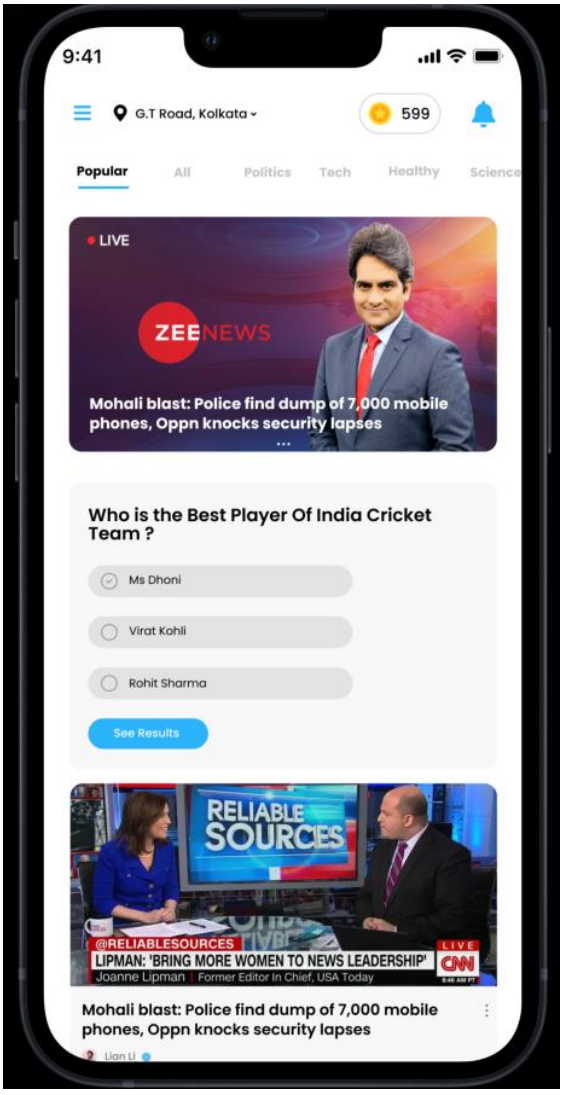
APPENDIX A – SCREENSHOTS

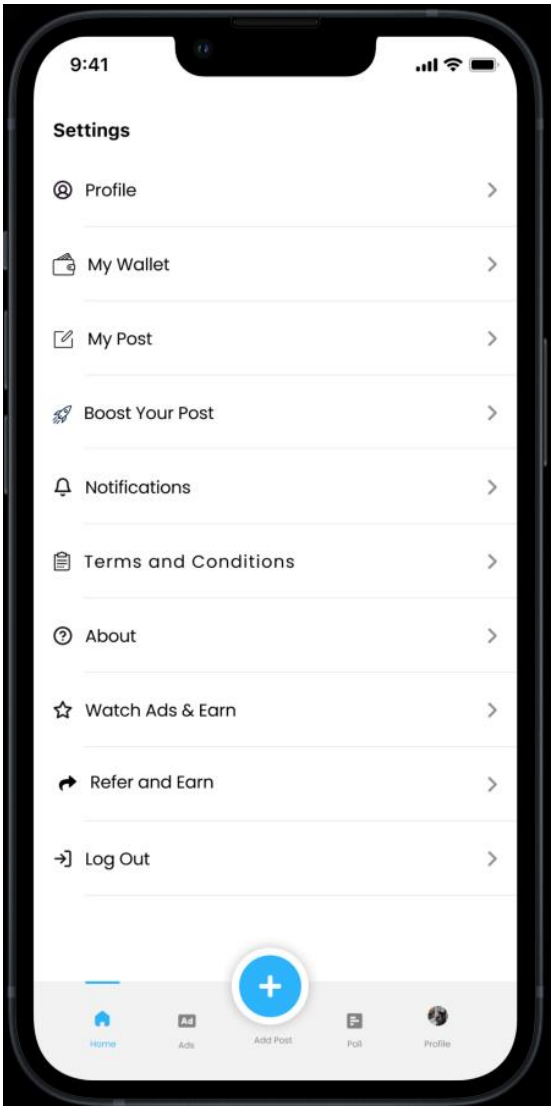


1.Login screen



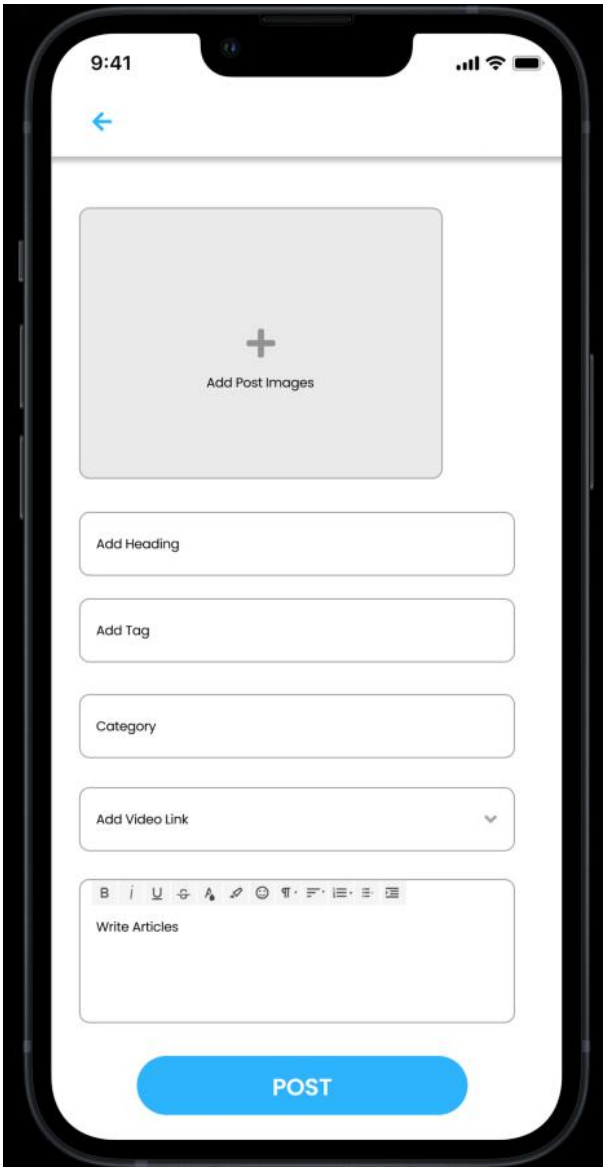
2.Forgot password screen





3.Home screen

4.Options screen



5.Post screen