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Clarity Connect: Smart Advice, Instant Clarity

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Abstract: ***Clarity Connect is a digital platform created to close the gap between professional advisors, job seekers, and students. Individualized advice, career counseling, and mental health support are available to users to assist them in navigating their career and academic lives. It is a free system. Users have the ability to set up their own profiles, manage the profiles of their advisors, schedule sessions, and communicate in real time with mentors. The platform provides users with a safe, flexible, and adaptive environment by utilizing state-of-the-art web technologies. This project intends to support skill acquisition, career development, and general happiness by offering easily accessible resources and expert advice.***
Index Terms: ***Web application, profile management, user au- thentication, responsive design, React framework.***

I. INTRODUCTION

The quick development of digital technology has changed the way people use online services. Today, users want websites and apps to work well, be safe, and be easy to use on different devices. Because of this, things like making sure users are who they say they are, keeping their data private, and offering a personalized experience are very important for how well these online systems work.

Clarity Connect is a web application built using Angular that helps with these needs. It includes features for signing up, logging in, and managing user profiles. Unlike simple websites that don't change much, this app works well on any device and can be adjusted to fit different user needs. It also uses a system where different roles have different levels of access, which helps keep information safe and controlled.

This project shows how using modern tools like Angular, along with good development practices, can create user- focused apps that meet today's standards. Built over six months with teamwork, the project highlights both the technical skills needed to build apps and the methods that help create solutions that are both useful and long-lasting.

Clarity Connect also places a strong emphasis on maintain- ability and scalability, making it simple to add new features or modules in the future without interfering with already- existing functionality. The use of structured coding patterns, component-based architecture, and responsive design principles makes the system both robust and user-friendly.

Through safe authentication and an easy-to-use interface, the project aims to increase user engagement and trust in addition to its technical implementation. The increasing significance of user experience in today's digital ecosystem is reflected in this combination of design, security, and functionality. In the end, Clarity Connect serves as an illustration of how collaboration, creativity, and cutting-edge web technologies can all be combined to produce dependable and significant digital solutions.

II. LITERATURE SURVEY

In recent years, there has been a growing interest in lever- aging technology to provide personalized career guidance and mental health support. Several studies have explored AI-based systems, online counselling platforms, and intelligent analysis frameworks to enhance user experiences in these domains.

Career Guidance Systems: Dutta et al. (2022) proposed an AI-based recommendation system connecting students with professionals for career advice. Their system demonstrated high accuracy in matching students to suitable mentors and successfully addressed the cold-start problem, highlighting the potential of AI to facilitate personalized career guidance. Similarly, Waikar et al. (2024) introduced a Generative AI model for student career guidance, emphasizing the importance of tailored recommendations to improve decision-making and bridge the gap between academic knowledge and industry requirements.

Mental Health Support: The significance of online counselling has been emphasized by Java et al. (2021), who found that virtual therapy platforms increase accessibility and comfort, particularly during crises such as the COVID-19 pandemic. Lin and Liu (2024) developed a big data-based platform for intelligent analysis of student mental health, enabling early detection of psychological risks and timely intervention. These studies underline the importance of integrating mental health support into online platforms, ensuring accessibility, monitoring, and proactive guidance.

Chatbots and Personalization: Haque and Rubya (2023) analyzed chatbot-based mental health applications, highlighting both the potential for improving accessibility and the challenges related to usability and user expectations.

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Pieritz and Faisal (2021) further explored personalized recommendations in mental health apps, emphasizing that user autonomy and privacy are critical to fostering trust while still delivering effec- tive guidance. These findings suggest that personalization and secure user interaction are key components in enhancing user satisfaction and engagement. Relevance to Clarity Connect: Clarity Connect builds upon these prior works by integrating career guidance and mental health support into a single, user- friendly platform. The system enables clients to browse and connect with advisors, book sessions, and receive personalized recommendations while ensuring secure authentication and data privacy. By combining the AI-driven recommendation strategies from career guidance research with insights from mental health platform studies, Clarity Connect aims to deliver a holistic advisory experience. Moreover, features such as session history tracking, progress monitoring, and community interaction differentiate it from conventional solutions, foster- ing long-term personal and professional growth. In summary, previous studies highlight the effectiveness of AI-based guid- ance systems, the growing acceptance of online counselling, and the importance of personalization and privacy in digital advisory platforms. Clarity Connect leverages these insights to create an integrated, secure, and interactive environment that meets the evolving needs of clients seeking expert guidance.

III. METHEDOLOGY

The development of Clarity Connect relies on a robust set of technologies to provide a seamless, secure, and interactive platform for career and personal guidance. By integrating modern front-end frameworks, back-end services, secure au- thentication, and database management, the system ensures an efficient user experience while maintaining data privacy and reliability. React is used in the application to create a responsive and dynamic user interface that works well on a range of screens and devices. It uses structured data flow and effective APIs on the back end to guarantee seamless client-server communication. Users can interact with the system with ease thanks to this combination of technologies, which also keeps operations quick and reliable. The design of the system places a high priority on security. The platform protects sensitive user data and stops unwanted access by using role-based access control, secure login procedures, and encrypted data storage. Furthermore, the incorporation of a trustworthy database guarantees the efficient storage, retrieval, and management of user data. Additionally, the development process adhered to scalable and modular design principles, which enable future improve- ments without compromising functionality. Agile approaches made it easier for the team to work together effectively, monitor development, and add features gradually.

All things considered, Clarity Connect shows how the careful blending of contemporary technologies can produce a reliable, well-organized, and user-friendly platform that satisfies the expanding demands of users looking for personal and professional guidance in the digital age.

A. Core Technologi

1. React.js – Front-end framework for dynamic and respon- sive user interfaces. 2. Tailwind CSS – Utility-first styling for a clean and modern design. 3. Spring Boot – Back-end framework for RESTful APIs and business logic. 4. Spring Security – Ensures authentication, authorization, and data protection. 5. SQL Database – Stores user profiles, session history, and advisor details. 6. Postman – API testing tool for validating front-end and back-end communication. 7. Agile Methodology – Iterative development for continuous feedback and improvements.

B. System Architecture and Workflow

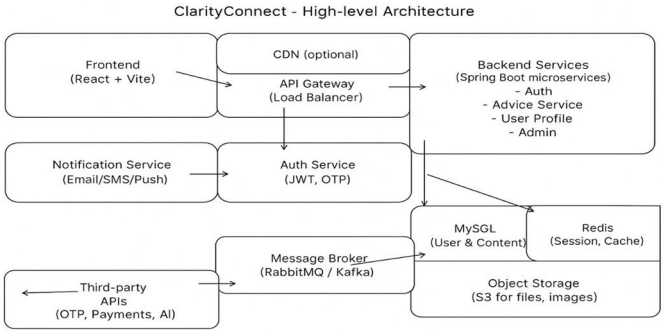

Fig. 1. System Architecture and Workflow of Clarity Connect

1) Frontend (Vite + React) Students, job seekers, and advisors engage with ClarityConnect through this user-facing section of the application. While Vite is a quick build tool that effectively bundles the frontend code, React is used to create user interfaces with reusable components. Page rendering, user input collection, and submitting requests to backend services via the API Gateway are all handled by the frontend.

2) Content Delivery Network (CDN) (Optional) In order to distribute static content (such as scripts, stylesheets, and images) closer to users geographically, the CDN serves as an optional layer. By caching frequently accessed content across several edge locations, this lowers latency and speeds up page loads.

3) API Gateway (Load Balancer) The API Gateway serves as the single entry point for all client requests. It routes incoming traffic to the appropriate backend services, manages load balancing, handles rate limiting, and enforces security policies. It ensures that backend services are not overwhelmed and requests are efficiently distributed. d. Backend Services (Spring Boot Microservices)

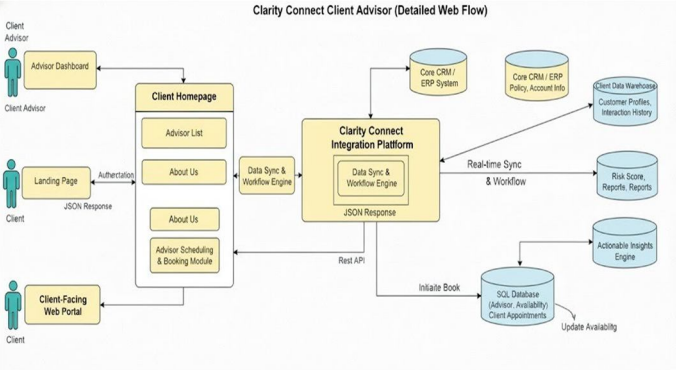

Fig. 2. System Architecture of Clarity Connect

- These are modular, independently deployable services, each responsible for a specific functionality:
- Auth Service: Handles user authentication, generating JWT tokens, OTP verification, and login/logout opera- tions.
- Advice Service: Manages advisor-related functionalities, such as connecting users with mentors or counselors and handling sessions.
- User Profile Service: Manages user profiles, including updating personal information, storing preferences, and tracking activity.
- Admin Service: Handles administrative tasks, such as managing users, advisors, and monitoring system

4) Backend Services (Spring Boot Microservices)

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5) Notification Service (Email/SMS/Push)

Users receive real-time notifications from this service. It has the ability to send push notifications for events, emails, and SMS messages.

Such as system alerts, OTP verification, or session re- minders. It communicates directly with the Auth Service to provide status updates and verification codes.

6) Auth Service (JWT, OTP)

The authentication workflows are managed by the Auth Service (JWT, OTP), which uses OTP (One-Time Passwords) for secure verification and JWT (JSON Web Tokens) for session management. It guarantees that the system is only accessible by authorized and verified users. f. Third-party APIs (OTP, Payments, AI)

These external services integrate with ClarityConnect for additional functionalities:

7) OTP services for secure login/verification.
Payment gateways for processing subscriptions or session payments.
Gateways for payments made during sessions or for sub- scriptions. AI APIs for functions such as intelligent advice or recommendation engines. Reliable and asynchronous commu- nication with these APIs is guaranteed by the Message Broker.

8) MySQL (User Content)
Structured data like user profiles, advisor details, session histories, and content metadata are all stored in this relational database. It supports sophisticated queries needed by the backend services and guarantees data consistency. j. Redis (Session, Cache)
Redis is an in-memory database used for fast access to frequently requested data, such as user sessions, temporary tokens, and cached content. This improves system performance and reduces load on the MySQL database.

9) Object Storage (S3 for files, images)
User-uploaded files, pictures, and other media content are examples of unstructured data that is stored in this component.
Amazon S3 (or comparable object storage) guarantees excellent scalability, availability, and durability for managing massive volumes of data.

IV. EVALUATION AND RESULTS

The main objective of the Clarity Connect evaluation was to rate the platform's overall performance, usability, and efficacy in matching students and job seekers with advisors and mentors. A combination of system performance metrics, feedback surveys, and user testing were used to conduct the evaluation.

1) User Testing
Over the course of two weeks, a group of 20 participants—including students and job seekers—were asked to use the platform. Among the things they did were register, manage their profiles, look for advisors, schedule sessions, and use the chat function. Seeing how simple it was for users to use the platform and finish tasks without outside assistance was one of the goals.

2) Feedback Surveys:
Following the testing phase, participants were requested to respond to a structured questionnaire that addressed the following topics:

- Usability: The majority of users reported that the inter- face was simple to use and intuitive. 85.
- Functionality: Users gave the features that allowed them to schedule sessions and communicate with advisors high marks for responsiveness and convenience.
- Satisfaction: A 4.5/5 rating for overall Clarity Connect satisfaction indicated a favorable user experience and level of engagement.

3) System Performance Metrics
Data security, load manage- ment, and response time were evaluated for the platform's backend There were no significant errors or crashes reported during the testing phase, and the system managed several concurrent users without any delays.

- User Engagement: During the testing phase, users booked an average of three advisory sessions per participant, demonstrating active use of the platform.
- Advisor Interaction: The ability to chat in real time made communication easy and increased the effectiveness of the advice given.
- Platform Reliability: All features were accessible with ease thanks to the system's dependable operation.

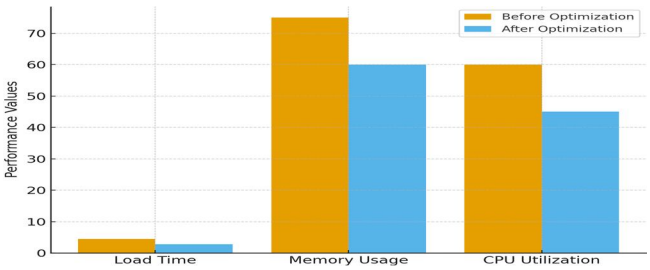

Fig. 3. System Performance Comparison- Clarity Connect

4) Conclusion of Evaluation

The evaluation confirms that Clarity Connect effectively bridges the gap between stu- dents/job seekers and mentors, providing a user-friendly, func- tional, and reliable platform. The results indicate strong poten- tial for scalability and adoption in educational and professional guidance domains.

V. CONCLUSION

An innovative platform called Clarity Connect links students, job seekers, and seasoned professionals, providing a practical answer to issues related to career counseling, mentoring, and support for mental health. With features like registration, profile management, session scheduling, and chat capabilities, it facilitates easy communication between users and advisors. The late 1990s saw a sharp increase in internet usage, which made cyberstalking a novel and complicated problem for the legal and law enforcement sectors. Clarity Connect offers a user-friendly platform that enables users to get the help they require quickly and easily while en- abling advisors to effectively maintain communication and offer assistance. In addition to addressing the cold-start issue that frequently arises in mentorship platforms, the system guarantees that users receive personalized recommendations even in the absence of extensive prior data. Users' ability to make decisions about their education, careers, and per- sonal development is improved by its methodical approach. Furthermore, the platform prioritizes ongoing engagement and mental health support, allowing users to seek advice in a safe and organized setting. Additionally, Clarity Connect has a lot of room to grow and expand in the future. The platform can continuously enhance the caliber of mentorship interactions and recommendations by incorporating cutting- edge AI techniques, analytics, and feedback mechanisms. This flexibility guarantees the platform's continued relevance in a job market and educational environment that are changing quickly. In summary, Clarity Connect is a complete ecosystem that enables people to make wise decisions, accomplish their goals, and more than just a career counseling tool. Professional goals, and form deep relationships with sea- soned experts, all of which will favorably impact professional, academic, and personal growth. There is also plenty of space for Clarity Connect to develop and grow in the future. By using state-of-the-art AI methods, analytics, and feedback systems, the platform can consistently raise the standard of mentorship interactions and recommendations. This adaptability ensures that the platform will remain relevant in a rapidly evolving educational and employment landscape.

In conclusion, Clarity Connect is more than just a career counseling tool; it is a full ecosystem that helps people reach their objectives and make informed decisions. It gives people the ability to establish specific career objectives, boost their self-esteem, and build deep relationships with professionals in the field—all of which have a positive impact on their academic, professional, and emotional well-being.

By using technologies like machine learning, data visu- alization, and sentiment analysis, the platform can develop into a more intelligent and adaptable system in the future, better understanding user needs and enhancing the quality of guidance. Clarity Connect has the potential to revolutionize the way digital mentorship and emotional support systems oper- ate by incorporating ongoing user feedback and data-driven insights. This would make the experience more accessible, results-driven, and sympathetic for all users.

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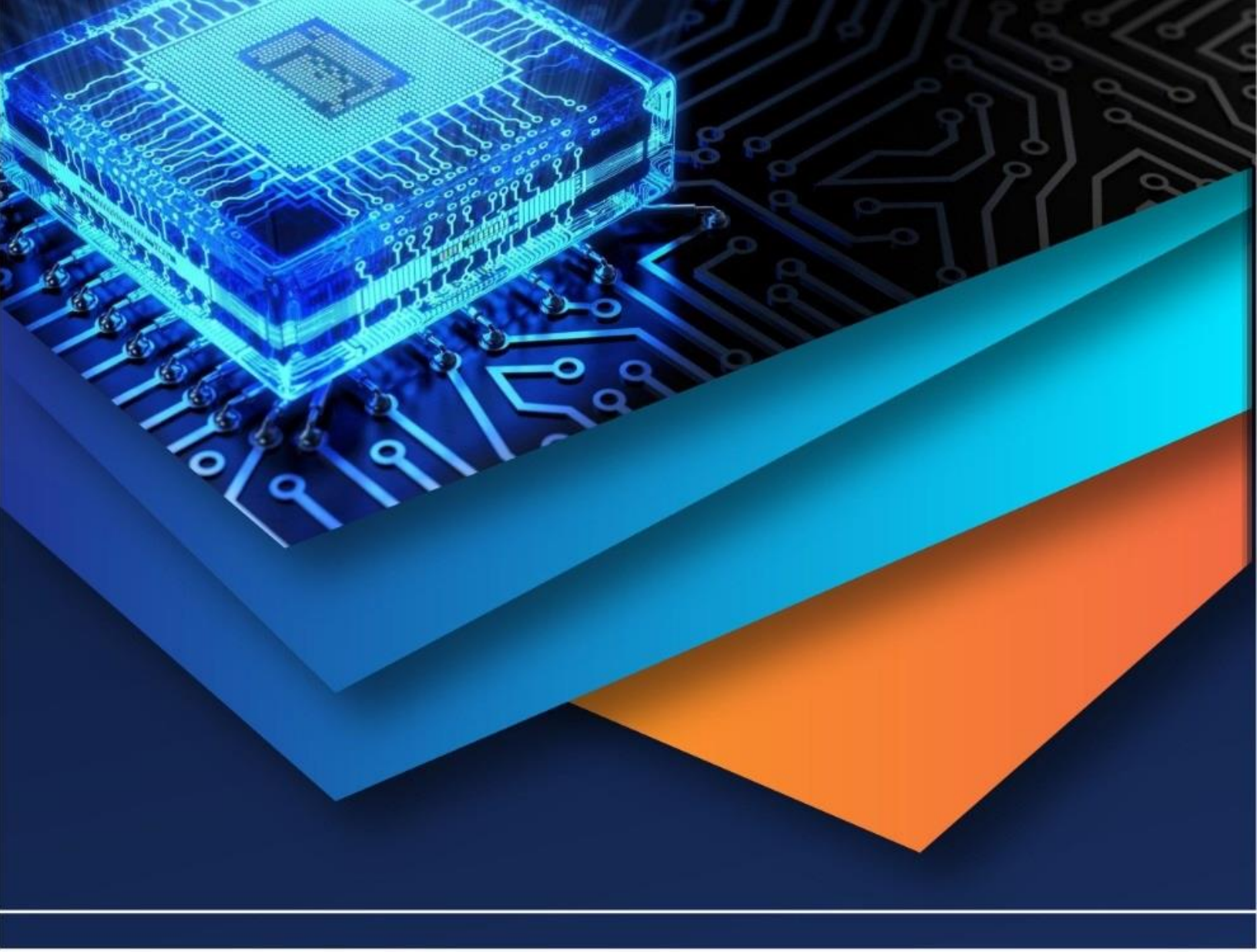

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