

E-Learning – codeseed.in

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Abstract: *The project "Codeseed" is an e-learning platform designed to provide a seamless learning experience for users worldwide. The platform consists of three main modules: a student/explorer module, an advertiser panel, and an admin panel. In user panel user (Student) can courses, purchase courses, and pursue course. Student can get certification after completing course. In student or user panel will see a random advertisement, for which an advertisement would be paying for and all ads are local advertisement. Admin can view all information about courses, add videos, add articles, and many more things. Student can sign in with google or also can create account manually with traditional method, with OTP. In admin panel when admin is adding up articles CK editor is used. The Codeseed project aims to create a user-friendly and interactive e-learning environment where students can enhance their knowledge and skills. By facilitating seamless content exploration, providing advertising opportunities, and offering robust administrative tools, Codeseed aims to revolutionize the e-learning experience.*

Keywords: HTML-5, CSS-3, JavaScript-ES6, Bootstrap-5, jQuery, PHP – 8.01, MySQL, Version Control Systems used, GitLab.

I. INTRODUCTION

Codeseed is designed to offer a user-friendly and interactive learning experience, empowering students to explore a vast array of educational content. The platform consists of three main modules: the student/explorer module, the advertiser panel, and the admin panel. The student module allows users to register and access educational resources such as videos, courses, and learning materials. With a seamless registration process and options for both manual and Google sign-in, Codeseed ensures a hassle-free onboarding experience for students.

In the student/explorer module, users can explore a wide range of educational content available on the webpage. They can register for an account using their email or opt for convenient sign-in options such as Google sign-in. Once registered, users can access the platform's features and personalize their learning journey.

The advertiser panel allows advertisers to raise ad tickets, specifying their desired ad placements and targeting options. This feature enables relevant ads to be displayed before videos and randomly throughout the webpage, providing advertisers with a platform to reach a wide audience.

The admin panel offers comprehensive data management capabilities. Administrators can monitor and manage registered students and advertisers, ensuring smooth platform operation. They also have control over ad placements, enabling them to optimize the user experience while maintaining a profitable advertising model.

Thus, Codeseed endeavour to revolutionize e-learning by providing a comprehensive and user-centric platform that bridges the gap between knowledge seekers and educational content providers. With its emphasis on accessibility, interactivity, and targeted advertising, Codeseed aims to redefine the e-learning landscape and make quality education accessible to individuals from all walks of life.

II. LITERATURE REVIEW

E-learning platforms:

Research shows that e-learning platforms can enhance learning outcomes and provide interactive learning experiences (Means et al., 2009). Customization e-learning platforms that cater to different learning styles and preferences have

been found to increase learner engagement (Cedral et al., 2018). E-learning platforms have gained significant attention in recent years due to their flexibility and accessibility for learners worldwide (Ally, 2004).

Registration/Login Features:

Ensuring data security and privacy during the registration process is crucial to building user trust and compliance with privacy regulations (Gikas & Grant, 2013). Incorporating registration and login features in e-learning platforms allows for personalized user experiences and tracking of learner progress (Vlachopoulos & Cowan, 2010). Studies suggest that offering various registration options, such as sign-in/sign-up with Google or manual registration, can improve user convenience and satisfaction (Duan et al., 2008).

User, Admin and Advertiser Panels:

Admin panels provide administrators with control and oversight over the e-learning platform. Admins can manage user data, content, and system settings (Nguyen et al., 2020).

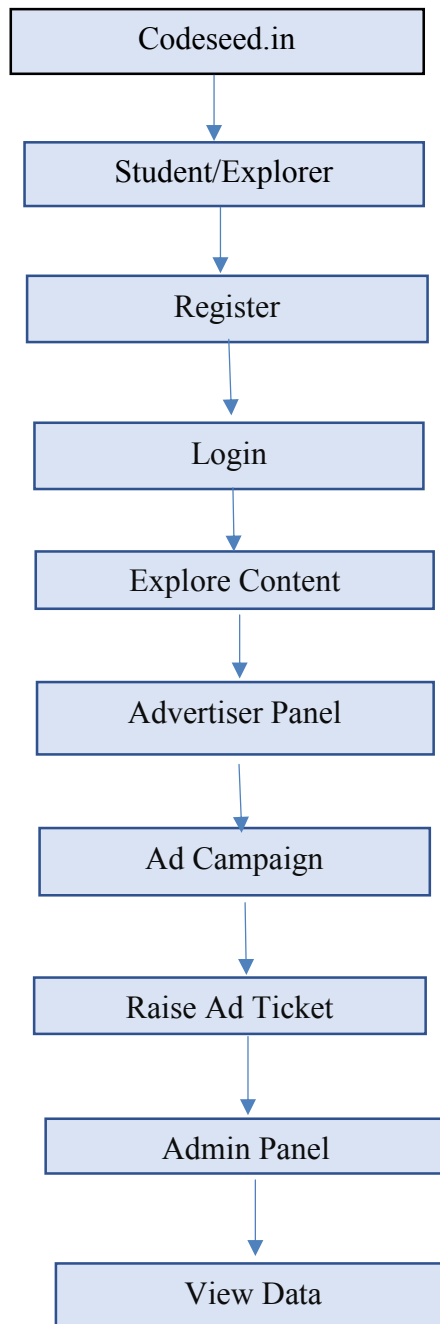
Advertiser panels allow advertisers to manage ad campaigns, monitor performance, and raise support tickets for ad placement or modifications (Reid, 2018). Effective management of user roles and permissions is essential for maintaining system security and integrity (Oluduro & Longe, 2016).

Ad Placement on Webpages:

Research suggests that the strategic placement of advertisements can influence user attention and engagement (Goldstein & Cialdini, 2007). Pre-roll ads before video content have been found to have higher view rates and user recall compared to other ad formats (Ferguson & Perse, 2000). Random placement of ads on webpages can distribute the ad exposure and prevent ad blindness, but careful consideration should be given to ensure a positive user experience (Li et al., 2016).

Workflow

- Codeseed: The main entry point of the e-learning platform.
 - Student/Explorer: Module for users to explore content on the web-page.
 - Register: User registration process to create an account.
 - Login: User login process to access personalized features.
 - Explore Content: Access educational materials, courses, and videos.
 - Advertiser Panel: Dedicated panel for advertisers to manage ad campaigns.
 - Ad Campaign: Create and manage ad campaigns.
 - Raise Ad Ticket: Advertisers can raise ad placement or modification requests.
 - Admin Panel: Module for administrators to oversee and manage the entire system.
- View Data: Admins can view data such as registered students and user information

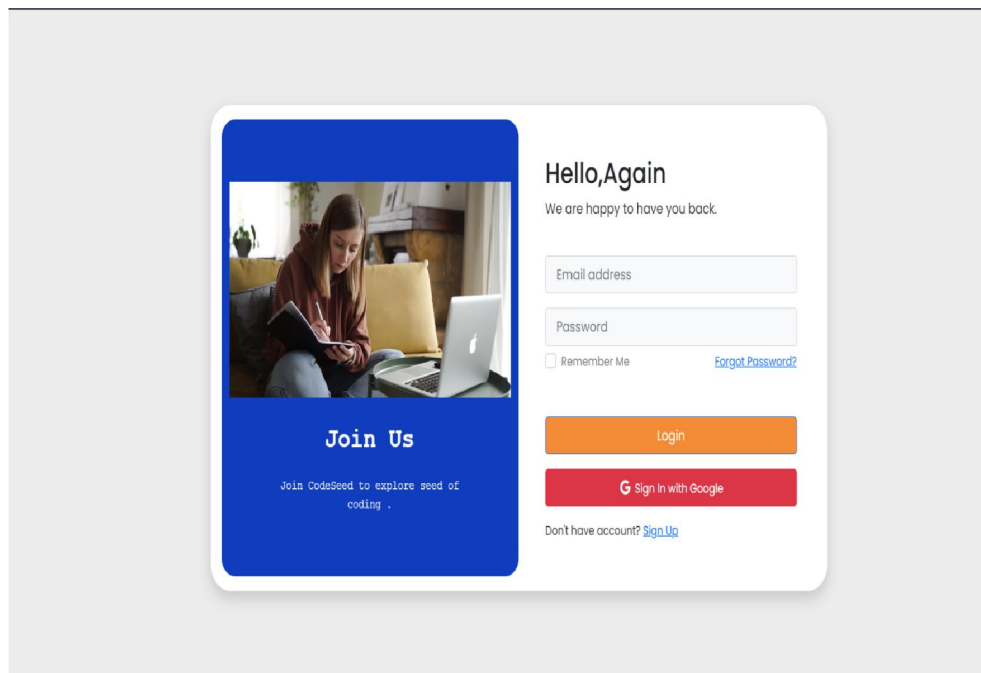
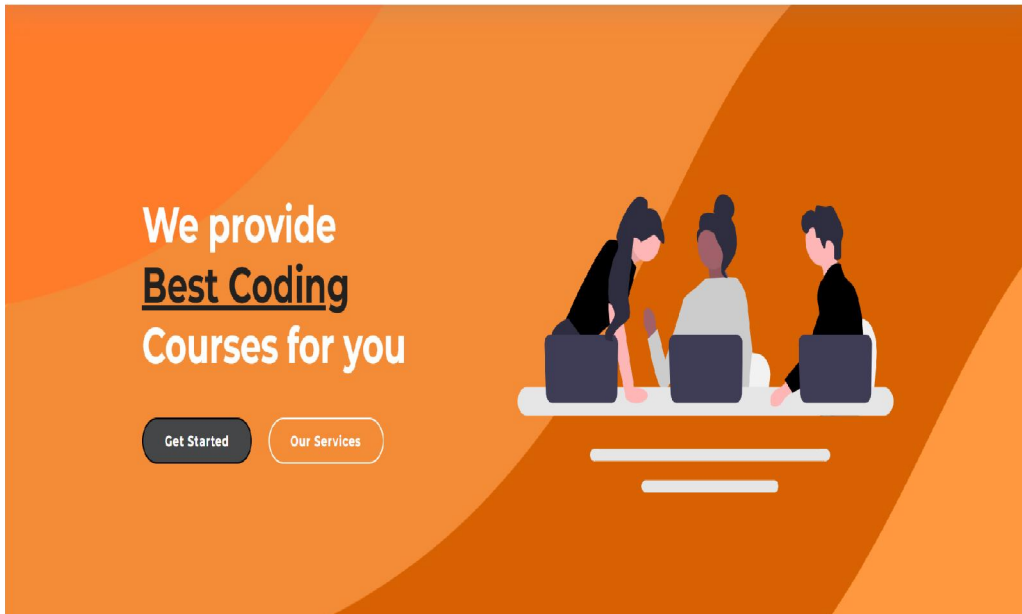


III. IMPLEMENTATION

User Interface (UI) design an intuitive and user-friendly interface for all modules. Design the UI for each module, focusing on intuitive navigation and user experience. Create wire frames or mock-ups to visualize the layout and structure of web pages. Ensure the design is responsive and compatible with different devices and screen sizes. Develop the fronted components and views for each module using HTML, CSS, and JavaScript. Implement user registration and login forms, including Google Sign-In integration. Design interactive interfaces for content exploration, including video playback. Create forms and interfaces for advertisers to raise ad tickets and for admins to manage data. Database set up a database to store user information, content data, and ad-related information securely. Set up the server-side infrastructure using your chosen technology stack (e.g., HTML, CSS, MySQL, Bootstrap, PHP, etc.). Develop APIs and endpoints for user registration, login, and authentication. Implement database models and schema to store user data,

content information, and ad-related details. Create server-side logic for handling requests and performing necessary operations. Create an admin panel interface with appropriate authentication and access control. Implement functionality to view registered students, manage user data, and perform administrative tasks. Develop features to monitor and manage ad campaigns, including ad ticket management. Perform comprehensive testing of each module, including functional testing, usability testing, and security testing. Debug and fix any issues or bugs identified during the testing phase. Ensure cross-browser compatibility and responsiveness of the website.

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IV. FUTURE SCOPE

Enhanced Personalization: Implement advanced algorithms and machine learning techniques to provide personalized learning experiences for each student.

Mobile Application Develop: A mobile application for CodeSeed to extend its accessibility and reach. Enable students to access educational content, track progress, and engage in learning activities on their mobile devices, enhancing convenience and flexibility.

Gamification and Interactive Elements: Incorporate gamified elements, such as badges, points, and leader boards, to increase student engagement and motivation. Utilize interactive elements like quizzes, simulations, and virtual labs to make the learning process more immersive and interactive.

Collaboration with Institutions and Educators: Forge partnerships with educational institutions, content creators, and subject matter experts to expand the range of courses and resources available on the platform. Collaborate with educators to develop and deliver high-quality online courses and certifications.

V. CONCLUSION

CodeSeed's implementation allows users to register and log in using their Google accounts or through manual registration. Looking ahead, there are several opportunities for future development, such as enhancing personalization through advanced algorithms, incorporating social learning features, developing a mobile application, and integrating gamification and interactive elements. By delivering a user-friendly, personalized, and engaging e-learning experience, CodeSeed has the potential to make a significant impact in the education sector and support learners worldwide in their pursuit of knowledge and skills.

REFERENCE

- [1]. Emerging digital technologies and increasing interest in the computerized delivery of higher education have led to e-learning through electronic mail, the Internet, the World Wide Web (WWW), and multimedia.
- [2]. https://www.researchgate.net/publication/243460349_E-learning_Research_and_applications

- [3]. H Li, J. Masters, "eLearning and knowledge management in the early year :Where are we and where should we go", Knowledge Management and eLearning: An International Journal, 2009, 1(4), 245-250.
- [4]. M. Nehme, "E-Learning and Students' Motivation", (2010) 20Legal Education Review, 223- 239, SSRN-id2347142, 2010. Retrieved from SSRN:<http://ssrn.com/abstract=2347142>
- [5]. T. Fitzpatrick, "Key Success Factors of eLearning in Education: A Professional Development Model to Evaluate and Support eLearning", US-China Education Review, 2012, A 9, 2012, 789-795.