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#### CHESS ACADEMY

**ADVANCED APPLICATION**

**A PROJECT REPORT**

***Submitted by***

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***in partial fulfilment for the award of the degree***

Of

#### BACHELOR OF TECHNOLOGY

**IN**

**INFORMATION TECHNOLOGY**

**MARCH- 2024**

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**BONAFIED CERTIFICATE**

Certified that this project report “**CHESS ACADEMY**” is the Bonafide work of “**ARAVIND S, HARIHARAN M, MIDHUN J”** who carried out the project work under my supervision.

|  |  |  |
| --- | --- | --- |
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**INTERNAL EXAMINAR EXTERNAL EXAMINAR**

**ACKNOWLEDGEMENT**

Dedicating this project to the **ALMIGHTY GOD** whose abundant grace and mercies enabled its successful completion.

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We are thankful to all those who have directly and indirectly extended their help to us in completing this project work successfully.

.

**ABSTRACT**

The Chess Academy Management System is an innovative digital platform poised to transform the landscape of chess education, catering to the specific needs of both students and educators. With its intuitive interface and comprehensive features, this system simplifies administrative tasks, enhances learning experiences, and fosters a thriving chess community. At its heart, the Chess Academy Management System offers a sophisticated yet user-friendly interface, empowering students to enroll in courses, track their progress, and engage in interactive learning activities seamlessly. Leveraging advanced analytics and personalized insights, instructors can assess student performance, tailor instructional materials, and provide targeted feedback to maximize learning outcomes. Moreover, the platform integrates a range of tools to support chess education, including virtual chess boards for practice sessions, curated lesson plans covering various skill levels, and access to a library of instructional resources and tutorials. By promoting active participation and collaboration, the system cultivates a dynamic learning environment conducive to skill development and strategic thinking. In addition to its educational features, the Chess Academy Management System incorporates elements to foster community engagement and participation. Students can join clubs, participate in tournaments, and connect with fellow enthusiasts, fostering a sense of camaraderie and belonging within the chess community. To uphold security and compliance standards, the platform employs robust encryption measures and adheres to regulatory requirements, safeguarding sensitive user data and ensuring confidentiality. With its blend of technological innovation and educational expertise, the Chess Academy Management System is poised to revolutionize the way chess is taught, learned, and enjoyed, empowering enthusiasts of all levels to reach their full potential in the game.

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**LIST OF ABBREVIATIONS**

|  |  |
| --- | --- |
| **ABBREVIATIVE** | **ABBERVIATION** |
| JS | JavaScript |
| HTML | Hypertext Markup Language |
| CSS | Cascading Style Sheet |
| Info | Information |
| DOB | Date of Birth |
| API | Application Programming Interface |
| JSON | JavaScript Object Notation |

**CHAPTER 1**

**INTRODUCTION**

"Chess Tech Academy Pro" is a groundbreaking digital platform tailored to meet the evolving needs of chess education, seamlessly integrating with the latest advancements in chess technology. Whether you're a beginner eager to learn the basics or a seasoned player looking to refine your skills, Chess Tech Academy Pro offers a comprehensive suite of features and tools designed to enhance your chess learning journey in the digital age. At its core, Chess Tech Academy Pro leverages cutting-edge chess technologies to revolutionize the way chess is taught and learned. By harnessing sophisticated algorithms, machine learning capabilities, and vast databases of chess knowledge, Chess Tech Academy Pro provides users with actionable insights and personalized recommendations to accelerate skill development and strategic mastery . A central component of Chess Tech Academy Pro is its dynamic learning environment, where users can access a diverse range of instructional resources tailored to their skill level and learning goals. Whether you're interested in mastering opening theory, refining tactical prowess, or studying endgame techniques, Chess Tech Academy Pro offers curated lesson plans and interactive exercises to help you progress at your own pace. In addition to traditional instructional content, Chess Tech Academy Pro integrates innovative features to foster technological adoption and chess advancement. From interactive puzzle challenges and virtual training sessions to access to online tournaments and grandmaster analysis, Chess Tech Academy Pro empowers users to explore new dimensions of the game and elevate their playing experience. Recognizing the importance of timely feedback and support, Chess Tech Academy Pro provides proactive alerts and notifications for key learning milestones, chess events, and opportunities for improvement. Whether you're honing your opening repertoire, analyzing game strategies, or preparing for competitive play, Chess Tech Academy Pro ensures that you have the tools and insights you need to excel in today's dynamic chess ecosystem.

* 1. **PROBLEM STATEMENT**

The objective is to develop a frontend web application for the Chess Academy Management System that facilitates course management, allowing administrators to add new courses, users to view and enroll in courses, and administrators to approve course enrollments.

* 1. **OVERVIEW**

Chess Academy Connect is a cutting-edge platform revolutionizing chess education processes, serving as a vital bridge between students and instructors. With its intuitive interface and robust functionality, Chess Academy Connect simplifies course management for administrators while providing students with seamless access to educational solutions tailored to their chess learning needs. Through Chess Academy Connect, administrators can effortlessly create and customize courses, defining parameters such as lesson plans, skill levels, and eligibility criteria. Meanwhile, students benefit from a user-friendly interface that guides them through the course enrollment process, allowing them to enroll in courses and track their progress with ease.

* 1. **OBJECTIVE**

The Chess Academy Hub stands as a pioneering force in chess education, transforming the way enthusiasts access essential learning resources and navigate the educational journey. With a dedication to modernization and efficacy, the Chess Academy Hub offers a streamlined platform that connects students with instructors, facilitating seamless course management and nurturing growth within the chess community.

At the heart of the Chess Academy Hub's mission lies the commitment to providing students with swift access to vital learning materials. Through its user-friendly platform, students can easily enroll in courses and track their progress in real-time. This efficient process alleviates administrative burdens and accelerates learning, empowering students with the knowledge they need to develop their skills.

Transparency and accessibility are core values guiding the Chess Academy Hub's approach. The platform ensures clear communication between students and instructors, providing visibility into course availability and facilitating seamless interactions throughout the learning process. This transparency fosters trust and camaraderie within the chess community, cultivating a supportive environment for skill development.

The Chess Academy Hub recognizes that chess education is not one-size-fits-all. Therefore, the platform offers tailored learning solutions designed to meet the unique needs and aspirations of individual students. Whether students seek beginner tutorials, advanced strategy sessions, or specialized coaching for tournament preparation, the Chess Academy Hub provides flexible options to accommodate diverse learning objectives and skill levels.

**CHAPTER 2**

**SYSTEM ARCHITECTURE**

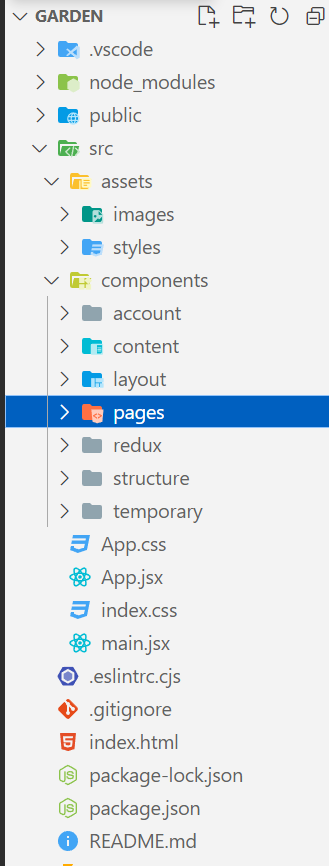
The ChessTech system follows a modern and scalable three-tier architecture. It consists of the frontend layer, backend layer, and the database layer. Each layer plays a crucial role in the system's overall functionality and ensures smooth communication and data management. The frontend layer serves as the user interface, where students and instructors interact with the system. It is responsible for presenting information, handling user inputs, and providing a seamless and intuitive experience for users. Technologies like HTML, CSS, and JavaScript are commonly used to develop the frontend layer, ensuring compatibility across different devices and browsers.

**2.1 FRONTEND**

The frontend layer of the Chess Academy system is developed using React, a widely used JavaScript library for building dynamic user interfaces. React empowers the creation of interactive and responsive components, enhancing the user experience for students and instructors navigating through the platform.Utilizing React, the frontend layer ensures a seamless and intuitive interface, allowing users to explore courses, access learning materials, and engage in interactive activities effortlessly. Its component-based architecture simplifies development and maintenance, enabling rapid iteration and scalability as the platform evolves.The frontend communicates with the backend through API calls to facilitate various operations such as fetching course information, updating user profiles, and managing course enrollments. This communication enables real-time data exchange and ensures synchronization between the frontend and backend layers, providing users with up-to-date information and seamless interactions.

**2.2 REACT**

React is a popular JavaScript library for building user interfaces. It follows a component-based architecture, where the UI is divided into reusable and independent components. React allows developers to create dynamic and interactive UI elements efficiently.

****

**Fig 2.1 VS Code**

Figure 2.1 explains Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft with the Electron Framework, for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Simple React Snippets is a simple, yet extremely useful VS Code extension for React developers.

**HTML/CSS:**

HTML is used to structure the content of the web pages, while CSS is employed for styling and formatting the visual elements. HTML tags define the structure of the page, such as headings, paragraphs, and lists, while CSS rules specify the appearance, layout, and color schemes.

**JavaScript:**

JavaScript adds interactivity and dynamic behavior to the frontend. It is used to handle user actions and update the UI accordingly. JavaScript also facilitates data retrieval from the backend through API requests.

**Axios:**

Axios is a popular JavaScript library used for making HTTP requests from the browser. It is utilized in the frontend of the Open Library system to communicate with the backend API and retrieve data from the server. For example, when a user searches for a book or adds a new book, Axios is used to send the relevant data to the server and receive the corresponding response.

**State Management:**

React incorporates a state management mechanism that allows components to store and manage their internal state. This enables dynamic rendering of UI elements based on changes in data or user interactions. State management libraries like Redux or React Context API may be used to manage application-wide state and facilitate data flow between components.

**Responsive Design:**

The frontend of the Open Library system is designed to be responsive, meaning it adapts and scales seamlessly across different devices and screen sizes. This ensures that users can access and interact with the application from various devices, such as desktops, tablets, or smartphones.

**CHAPTER 3**

**LITERATURE SURVEY**

**3.1 Related Works**

[1] Chess academy by A. G. Bello and E. S. Odunuga (2019):

This paper delves into the pivotal role of chess education in fostering intellectual development. It outlines the obstacles encountered by aspiring chess players in accessing quality learning resources and underscores the value of innovative solutions such as online platforms like Chess Tech Academy in enhancing educational accessibility and promoting strategic thinking skills.

[2] "Digital Transformation in Chess academy: A Review" by K. S. Rajashekarappa and A. P. Balakrishna (2020):

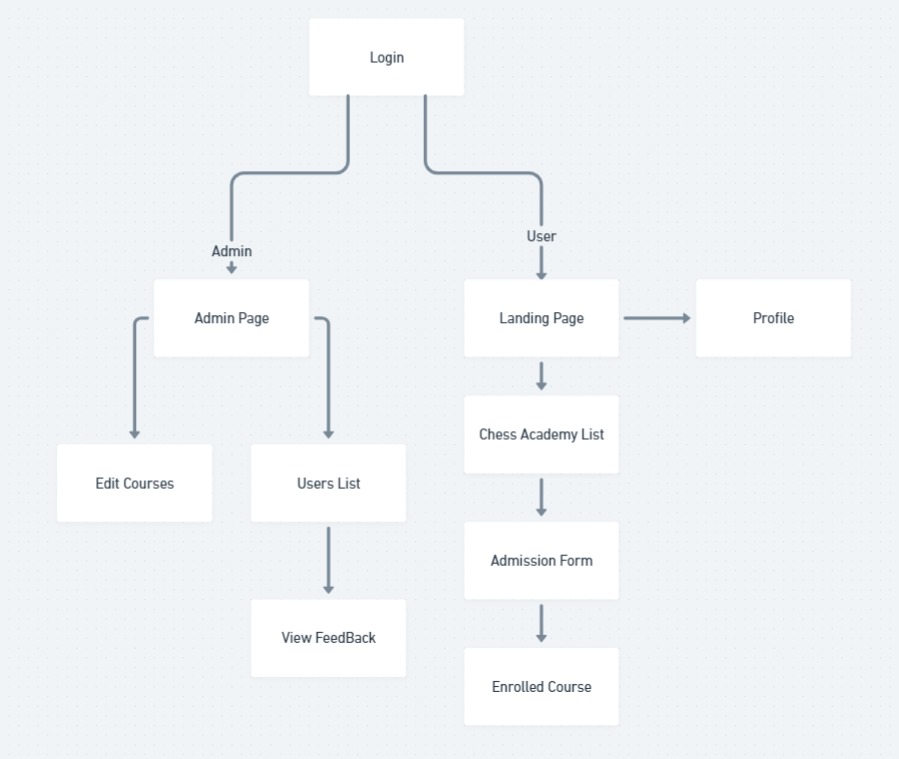
This review article delves into the digital revolution within the realm of chess education, with a particular focus on the rise of online platforms and mobile applications. It explores the potential of these digital tools in augmenting efficiency, transparency, and accessibility in chess learning, highlighting examples such as Ches Tech Academy as pioneering advancements in the domain.

[3] "Innovations in Chess academy: A Review of Recent Trends and Developments" by M. K. Osei and C. A. Boadi (2021):

This review offers valuable insights into the contemporary landscape of chess education, exploring recent trends and innovations. It delves into the transformative impact of technology on teaching methodologies and underscores the significance of platforms like Chess Tech Academy in delivering personalized learning experiences to enthusiasts. Moreover, the paper examines the challenges and opportunities inherent in the adoption of digital chess education solutions, shedding light on the evolving dynamics within the chess community.

**CHAPTER 4**

**FUNCTIONALITY**

Perfect Chess offers a wide range of functionality to make chess learning more accessible, enjoyable, and successful for users of all levels. 

**Fig 4.1 Flow chart**

**4.1 LOGIN**

A login page is a crucial component of any website or application that requires user authentication. Its primary purpose is to verify the user's identity and grant access to restricted content or features. The login page typically includes fields for the user to enter their username/email and password.

**4.2 REGISTER**

A register page, also known as a sign-up page, is an essential component of websites or applications that require user registration. Its primary purpose is to collect user information and create a new account for accessing the platform.

The register page typically includes fields for users to enter their personal details, such as username, email address, password, and any additional required information. Users may also be asked to confirm their password to ensure accuracy.

**4.3 MANAGE COURSES**

Chess Tech Academy simplifies course management for administrators, providing a user-friendly interface to oversee the educational process efficiently. The platform enables administrators to add and customize courses, review enrollments, and facilitate transparent communication with students and instructors. With streamlined workflows and real-time notifications, Chess Tech Academy ensures prompt processing and clear visibility into the status of course enrollments. Additionally, robust security measures protect sensitive user data, instilling trust and confidence in the integrity of the system. Chess Tech Academy empowers administrators to tailor educational solutions, fostering skill development and resilience within the chess community with its seamless and transparent course management capabilities.

**4.4 ADD COURSES**

To add courses in Chess Tech Academy, administrators navigate to the course management section in the admin dashboard. Here, they input details such as course title, description, and skill level, customizing parameters to suit specific educational needs. After ensuring accuracy, administrators save and publish the course, making it accessible to students.

Chess Tech Academy's intuitive interface streamlines the process, facilitating efficient course management and transparent communication between administrators and students. This seamless addition of courses enhances educational accessibility and supports skill development and strategic thinking within the platform's community.

**4.5 UPDATE COURSES**

In Chess Tech Academy, updating course details is a straightforward process designed to ensure administrators can easily modify courses as needed. To update a course, administrators access the course management section in the admin dashboard, where they can locate the specific course requiring updates. Within the course details interface, administrators can make necessary modifications, such as adjusting the course title, description, skill level, or learning objectives.

After ensuring the accuracy of the changes, administrators save the updates, and the modified course is automatically reflected in the system. This seamless process empowers administrators to adapt course offerings efficiently, ensuring they remain aligned with the evolving needs of students and the chess community.

**4.6 REMOVE COURSES**

In Chess Tech Academy, administrators access the course management section in the admin dashboard to remove courses. They locate the specific course to remove and initiate the removal process by selecting the "Remove Course" or "Delete Course" option. After confirming the removal, the selected course is permanently deleted from the platform, along with any associated data. Administrators then verify the removal to ensure its success.

This streamlined process allows administrators to efficiently manage course offerings, ensuring that outdated or irrelevant courses are removed from the platform to maintain accuracy and relevance. Removing courses when necessary helps optimize the platform's functionality and ensures that students have access to the most up-to-date and relevant educational content tailored to their chess learning needs.

**4.7 MANAGE USER**

Managing user accounts is essential for maintaining security and facilitating a seamless learning experience. Administrators have the authority to create, modify, and remove user accounts as required, ensuring the platform's integrity.

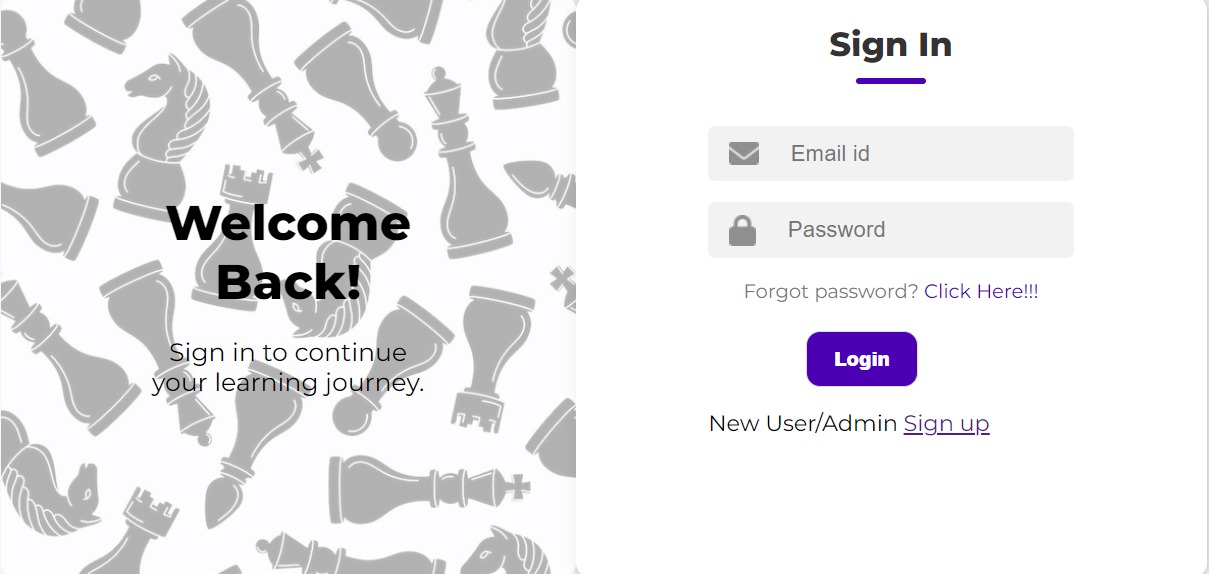
Stringent security measures are implemented to safeguard user data, preserving confidentiality and trust. Furthermore, Chess Tech Academy provides personalized user profiles, empowering students to customize their preferences and access their learning history effortlessly. This level of account management grants users autonomy over their Chess Tech Academy experience, fostering a tailored and user-centric journey in chess education.

**CHAPTER 5**

**SYSTEM DESIGN AND ANALYSIS**

The frontend design of the Chess Academy Management System emphasizes a user-centric approach, catering to both students and instructors with an intuitive and visually engaging interface. Utilizing contemporary web technologies such as React.js or Vue.js, the frontend ensures responsiveness and compatibility across different browsers and devices. Students benefit from a seamless experience as they navigate through the academy's offerings, with clear and intuitive interfaces guiding them through course enrollment, lesson access, and progress tracking. Interactive chess boards and engaging visuals enhance the learning experience, making complex concepts accessible to learners of all levels. Over all, the frontend design of the Chess Academy Management System aims to create an immersive and user-friendly environment that enhances the teaching and learning experience within the chess community, fostering a passion for the game and facilitating skill development for enthusiasts of all ages and backgrounds.

**5.1 LOGIN**



**Fig 5.1 Login page**

Figure 5.1 explains A login page is a crucial component of any website or application that requires user authentication. Its primary purpose is to verify the user's identity and grant access to restricted content or features.

**Code:**

import { useRef } from "react";

import { ToastContainer, toast } from "react-toastify";

import "react-toastify/dist/ReactToastify.css";

import "../assets/css/Login.css";

import { Link, useNavigate } from "react-router-dom";

function Login() {

const navigate = useNavigate();

const email = useRef();

const password = useRef();

function handlesubmit() {

const emailValue = email.current.value;

const passwordValue = password.current.value;

if (emailValue === "" || passwordValue === "") {

notifyError("Please enter email and password");

}

else if (emailValue === "midhun@gmail.com" && passwordValue === "123456") {

navigate("/adminhome");

} else if (!validateEmail(emailValue)) {

notifyError("Please enter a valid email address");

} else if (passwordValue.length < 5 || passwordValue.length > 15) {

notifyError("Password must be between 6 and 15 characters long");

}

else {

notifySuccess("Login successful!");

navigate("/homepage");

}

}

const validateEmail = (email) => {

const regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

return regex.test(email);

};

const notifyError = (message) => toast.error(message);

const notifySuccess = (message) => toast.success(message);

return (

<div id="log\_body">

<div id="login\_container">

<div id="login\_box">

<h1 id="login\_title">Login</h1>

<form id="login\_form">

<input

type="email"

ref={email}

placeholder="Enter your email"

id="email"

/>

<input

type="password"

ref={password}

placeholder="Enter your password"

id="password"

/>

<button id="login\_btn" type="button" onClick={handlesubmit}>

Login

</button>

</form>

<center>

<p>

Don't have an account? <Link to="/register">Register</Link>

</p>

</center>

<ToastContainer />

</div>

</div>

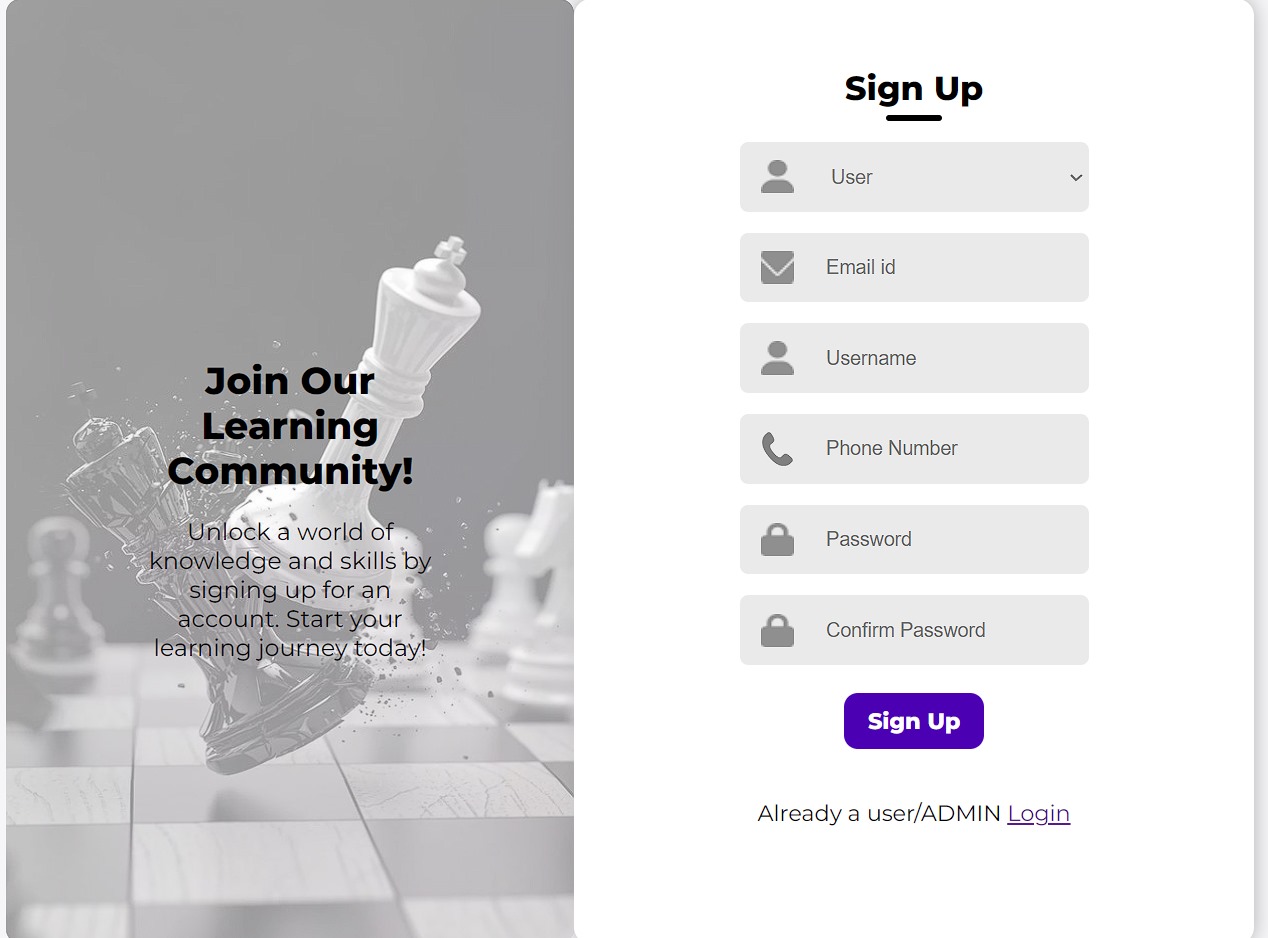
</div>

);

}

export default Login;

**5.2 REGISTER**



**Fig 5.2 Register page**

Figure 5.2 explains A register page, also known as a sign-up page, is an essential component of websites or applications that require user registration. Its primary purpose is to collect user information and create a new account for accessing the platform.

**Code:**

import React, { useRef } from "react";

import "../assets/css/Register.css";

import { Link, useNavigate } from "react-router-dom";

import { toast, ToastContainer } from "react-toastify";

import "react-toastify/dist/ReactToastify.css";

function Register() {

const firstName = useRef();

const lastName = useRef();

const email = useRef();

const password = useRef();

const confirmPassword = useRef();

const navigate = useNavigate();

function validateEmail(email) {

const regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

return regex.test(email);

}

function handleSubmit() {

if (

firstName.current.value === "" ||

lastName.current.value === "" ||

email.current.value === "" ||

password.current.value === "" ||

confirmPassword.current.value === ""

) {

toast.error("Please fill in all fields.");

} else if (!validateEmail(email.current.value)) {

toast.error("Please enter a valid email address.");

} else if (password.current.value.length < 6 || password.current.value.length > 15) {

toast.error("Password must be between 6 and 15 characters long.");

} else if (password.current.value !== confirmPassword.current.value) {

toast.error("Passwords do not match.");

} else {

toast.success("Registration successful.");

navigate("/homepage");

}

}

return (

<div id="register\_container">

<div id="register\_box">

<h1 id="register\_title">Register</h1>

<form id="register\_form">

<input

type="text"

ref={firstName}

placeholder="Enter your first name"

id="register\_first\_name"

/>

<input

type="text"

ref={lastName}

placeholder="Enter your last name"

id="register\_last\_name"

/>

<input

type="email"

ref={email}

placeholder="Enter your email"

id="register\_email"

/>

<input

type="password"

ref={password}

placeholder="Enter your password"

id="register\_password"

/>

<input

type="password"

ref={confirmPassword}

placeholder="Confirm password"

id="confirm\_password"

/>

<button id="register\_btn" type="button" onClick={handleSubmit}>

Register

</button>

</form>

<ToastContainer />

<center>

<p>

Already have an account? <Link to="/">Login</Link>

</p>

</center>

</div>

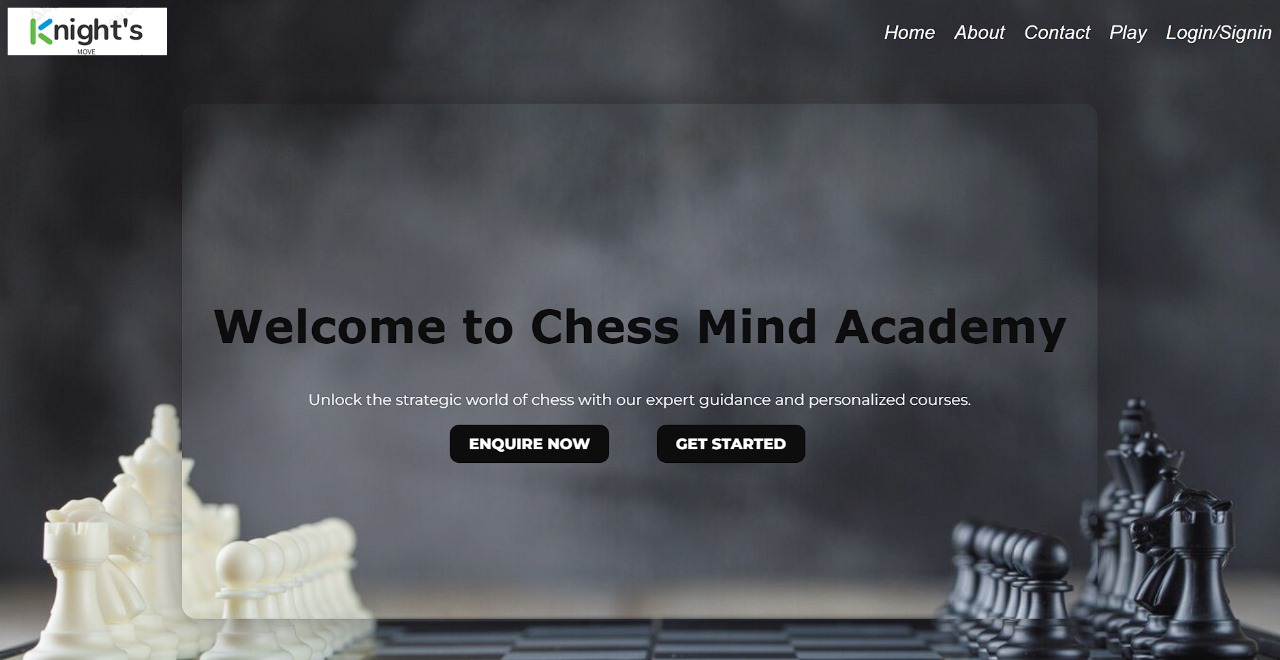
</div>

);

}

export default Register;

**5.3 HOME PAGE**



**Fig 5.3 Home page**

**Code:**

import React, { useState } from "react";

import { Link } from "react-router-dom";

import { FontAwesomeIcon } from "@fortawesome/react-fontawesome";

import { faUser } from "@fortawesome/free-solid-svg-icons";

import "../assets/css/Home.css";

import Footer from "./Footer";

import Sidebar from "./Sidebar";

function Home({ registeredEmail, isLoggedIn }) {

const [isSidebarOpen, setIsSidebarOpen] = useState(false);

return (

<div>

<header>

<div>

<img src={"https://academy.chess7.com/wp-content/uploads/2023/08/Chess7-Academy-logo-1.png"} alt="Chess Academy Logo" className="logo" />

</div>

<nav>

<ul>

<li className="nav">

<Link to="/homepage">Home</Link>

</li>

<li>

<Link to="/admissionform">Admission Form</Link>

</li>

<li>

<Link to="/course">Enrolled Courses</Link>

</li>

<li>

<Link to="/about">About</Link>

</li>

</ul>

</nav>

<div className="profile-icon" onClick={() => setIsSidebarOpen(!isSidebarOpen)}>

{isLoggedIn ? (

<FontAwesomeIcon icon={faUser} />

) : registeredEmail ? (

<p>{registeredEmail}</p>

) : (

<FontAwesomeIcon icon={faUser} />

)}

</div>

</header>

<Sidebar isOpen={isSidebarOpen} />

<Footer />

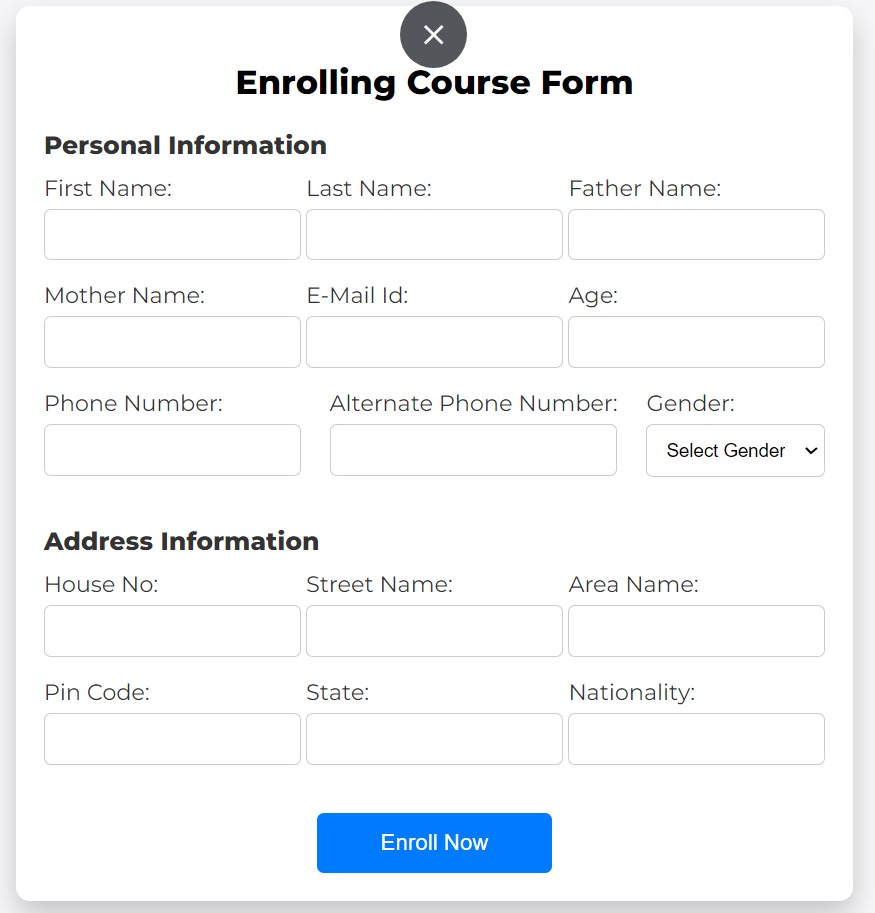
</div>

);

}

export default Home;

**5.4 ADMISSION FORM**



**Fig 5.4 Admission Page**

**Code:**

import React, { useRef } from "react";

import { toast, ToastContainer } from "react-toastify";

import "react-toastify/dist/ReactToastify.css";

import "../assets/css/AdmissionForm.css";

import Home from "./Home";

import Footer from "./Footer";

function AdmissionForm() {

const firstNameRef = useRef();

const lastNameRef = useRef();

const levelRef = useRef();

const trainingModeRef = useRef();

const emailRef = useRef();

function handleSubmit(event) {

event.preventDefault();

if (!firstNameRef.current.value || !lastNameRef.current.value || !levelRef.current.value || !trainingModeRef.current.value || !emailRef.current.value) {

toast.error("Please fill in all fields.");

return;

}

if (!validateEmail(emailRef.current.value)) {

toast.error("Please enter a valid email address.");

return;

}

toast.success("Admission form submitted successfully!");

firstNameRef.current.value = "";

lastNameRef.current.value = "";

levelRef.current.value = "";

trainingModeRef.current.value = "";

emailRef.current.value = "";

}

function validateEmail(email) {

const regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

return regex.test(email);

}

return (

<div className="back"><Home/>

<div className="admission-form-container">

<center><h2>Admission Form</h2></center>

<form onSubmit={handleSubmit} className="admission-form">

<div className="form-group">

<label htmlFor="firstName">First Name:</label>

<input type="text" id="firstName" ref={firstNameRef} />

</div>

<div className="form-group">

<label htmlFor="lastName">Last Name:</label>

<input type="text" id="lastName" ref={lastNameRef} />

</div>

<div className="form-group">

<label htmlFor="level">Level:</label>

<select id="level" ref={levelRef}>

<option value="">Select Level</option>

<option value="Beginner">Beginner</option>

<option value="Intermediate">Intermediate</option>

<option value="Advanced">Advanced</option>

</select>

</div>

<div className="form-group">

<label htmlFor="trainingMode">Preferred Mode of Training:</label>

<select id="trainingMode" ref={trainingModeRef}>

<option value="">Select Mode of Training</option>

<option value="Online">Online</option>

<option value="Offline">Offline</option>

</select>

</div>

<div className="form-group">

<label htmlFor="email">Email:</label>

<input type="email" id="email" ref={emailRef} />

</div><center>

<button type="submit">Submit</button></center>

</form>

<ToastContainer />

</div>

<Footer/>

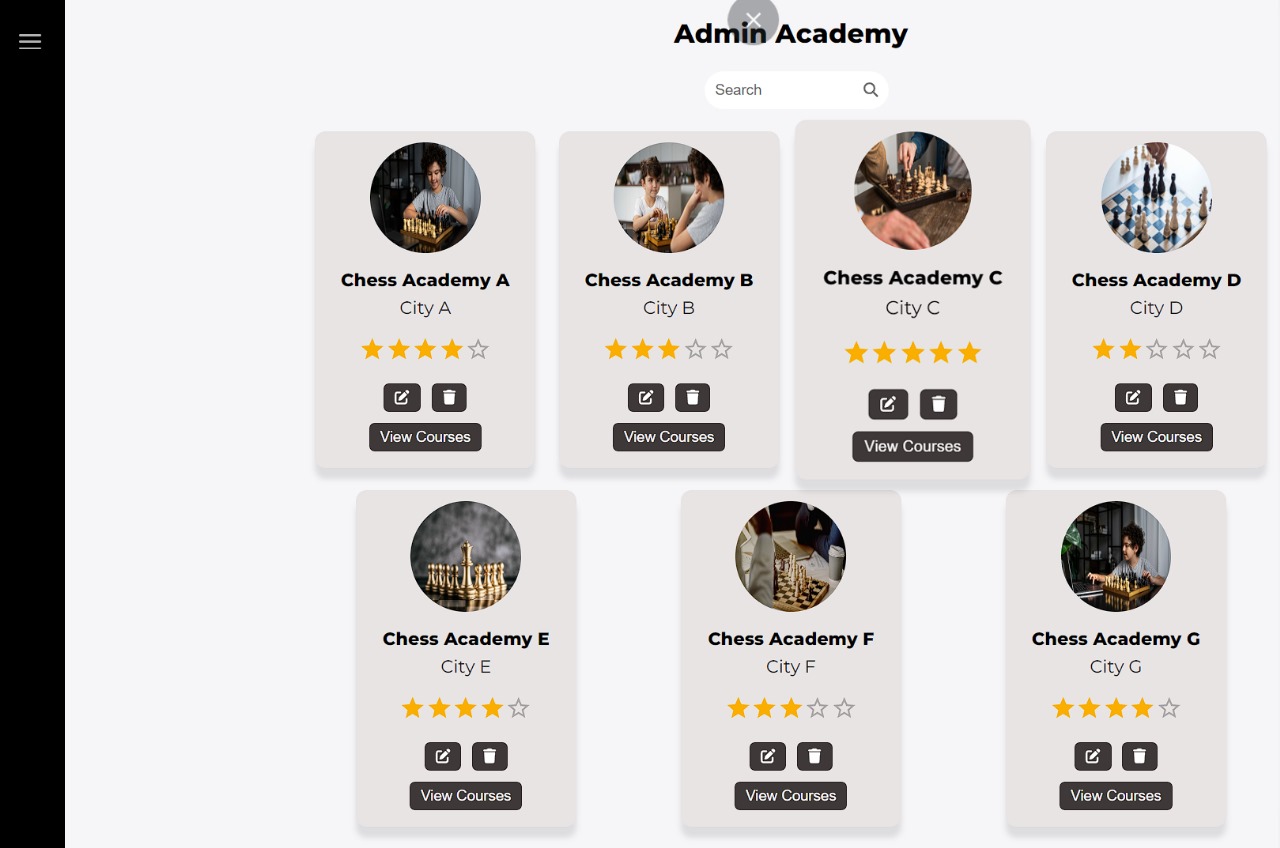
</div>

);

}

export default AdmissionForm;

**5.5 ADMIN PAGE**



**Fig 5.5 Admin Page**

**Code:**

import React from 'react';

import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';

import { faEdit, faTrash } from '@fortawesome/free-solid-svg-icons';

import '../assets/css/CourseTable.css';

import Home from './Home';

import Footer from './Footer';

import courseData from './courseData.json';

function AdminTable() {

return (

<div>

<Home />

<div className="table-container">

<table className="course-table">

<thead>

<tr>

<th>Course Name</th>

<th>Timing</th>

<th>Duration</th>

<th>Actions</th>

</tr>

</thead>

<tbody>

{courseData.map((course, index) => (

<tr key={index}>

<td>{course.courseName}</td>

<td>{course.timing}</td>

<td>{course.duration}</td>

<td>

<FontAwesomeIcon icon={faEdit} className="edit-icon" />

{" "}

<FontAwesomeIcon icon={faTrash} className="delete-icon" />

</td>

</tr>

))}

</tbody>

</table>

</div>

<Footer />

</div>

);

}

export default AdminTable;

**CHAPTER 6**

**CONCLUSION AND FUTURE SCOPE**

**6.1 CONCLUSION**

In conclusion, Chess Tech Academy stands as a beacon of innovation and empowerment in the realm of chess education. It transcends traditional teaching methods, offering a comprehensive and user-centric platform that addresses the unique needs and challenges of chess enthusiasts of all levels.

At its core, Chess Tech Academy embodies a commitment to excellence, efficiency, and accessibility. By leveraging advanced technologies and intuitive interfaces, Chess Tech Academy streamlines the learning process, making it easier and more convenient for students to access valuable educational resources. The platform's robust database, personalized guidance, and tailored learning solutions empower users at every stage of their chess journey, from novice to expert.

Moreover, Chess Tech Academy fosters a sense of community and camaraderie within the chess community. Through its user-friendly features and interactive tools, Chess Tech Academy encourages collaboration, knowledge-sharing, and peer support among students and instructors. This sense of belonging enhances the overall learning experience, creating a supportive ecosystem where chess enthusiasts can thrive and excel.

Chess Tech Academy's impact extends far beyond the game of chess. By providing students with the resources and support they need to develop their skills and strategic thinking abilities, Chess Tech Academy plays a vital role in fostering intellectual growth, critical thinking, and creativity. It empowers students to unlock their full potential, thereby contributing to personal development and lifelong learning.

In essence, Chess Tech Academy is more than just an educational platform; it is a catalyst for positive change and transformation in the world of chess. It embodies the spirit of innovation, collaboration, and empowerment, paving the way for a brighter and more prosperous future for chess enthusiasts around the world.

**6.2 FUTURE SCOPE**

For the Chess Academy, there are several avenues to enhance and expand its offerings to better serve the needs of chess enthusiasts:

1. Advanced Learning Technologies: The Chess Academy can explore the integration of advanced technologies such as artificial intelligence (AI) and machine learning (ML) algorithms to enhance the learning experience. These technologies can be utilized to personalize learning paths, provide targeted feedback, and recommend tailored resources based on individual learning styles and progress.

2. Diverse Course Offerings: Expanding the range of courses to cater to diverse skill levels, playing styles, and specific areas of interest within chess can attract a wider audience. This may include courses on openings, endgames, tactics, strategy, and historical games, among others.

3. Collaborations with Chess Experts: Partnering with renowned chess players, coaches, and experts to develop specialized courses, masterclasses, and coaching sessions can provide students with access to valuable insights and expertise from the top echelons of the chess world.

4. Community Engagement: Creating a vibrant and interactive community platform where students can connect, share experiences, participate in forums, and engage in friendly competitions can foster a sense of belonging and camaraderie among chess enthusiasts.

5. Mobile Learning Applications: Developing mobile learning applications that enable students to access course materials, practice exercises, and participate in live sessions on-the-go can enhance accessibility and flexibility, allowing users to learn at their own pace and convenience.

6. International Tournaments and Events: Organizing and promoting online tournaments, events, and challenges can provide students with opportunities to test their skills, gain exposure to different playing styles, and measure their progress against peers from around the world.

**CHAPTER 7**

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