SYNOPSIS

CampHire

Presented by :
Harshit Shekhar (2300290140073)
Harsh Chaudhary (2300290140067)
Piyush Pratap Singh (2300290140116)

Under the supervision of
(Dr.) Akash Rajak (Prof.)

KIET Group of Institutions, Delhi-NCR, Ghaziabad

Table of Contents

Abstract

- CampHire connects students and recruiters, promoting equal opportunity and skill-based hiring.
- It aligns with UN Sustainable Development Goals for Quality Education and Decent Work.
- The platform uses verified college IDs for secure access.
- Built with the MERN stack, it offers a seamless user experience.
- Students create profiles, access jobs, take real-time skill tests, and receive job status updates.
- Recruiters review applications, shortlist candidates based on skill matching, and receive real-time application alerts.
- Security measures include bcrypt password encryption and JWT session management.
- CampHire empowers students with equal employment opportunities and fosters professional growth.

Introduction

- **Student Job Search Challenges:** Many students struggle to find relevant job opportunities.
- **CampHire's Solution:** A platform connecting students and employers for a streamlined hiring process.
- **Student Features:** Profile creation, job applications, real-time skill assessments.
- **Employer Features:** Job postings, applicant review, data-driven hiring tools.
- **SDG Alignment:** Supports Quality Education (SDG 4) and Decent Work & Economic Growth (SDG 8).
- **Skill-Based Focus:** Real-time tests and Skill Match system emphasize merit.
- **Technology Stack:** Built using the secure and scalable MERN stack.
- **Platform Features:** Email notifications, role-based authentication, verified student logins.
- **Key Benefits:** Efficient job applications, improved employer-student interaction, workforce preparation for students.

Hardware Requirements

Development Machine (Local System)

Processor: Intel Core i3 (8th Gen or later) / AMD Ryzen 3

•**RAM:** 4GB

•**Storage:** 256GB SSD or 500GB HDD

•**Operating System:** Windows 10/11, macOS, or Linux (Ubuntu 18.04 or later)

•**Internet Connection:** Stable broadband for development and testing.

Server Requirements (Hosting the Application)

•**Processor:** Dual-Core CPU (Intel Xeon / AMD Equivalent)

•**RAM:** 4GB

•**Storage:** 50GB SSD

•**Bandwidth:** At least 1TB/month for handling multiple users

•**Database Hosting:** MongoDB Atlas or a self-managed MongoDB instance

Software Requirements

1. Frontend Technologies

•**Library:** React.js

•**State Management:** Redux Toolkit / Context API

•**CSS Framework:** Tailwind CSS or Bootstrap

2. **Additional Dependencies**

•**Testing:** Jest, Mocha, or Postman for API testing

•**Deployment:**
- **Frontend:** Vercel or Netlify
- **Backend:** Render, AWS, or DigitalOcean
- **Database:** MongoDB Atlas

•**API Integration:** Axios or Fetch API for client-server communication

3. Backend Technologies

•**Runtime Environment:** Node.js

•**Framework:** Express.js

•**Database:** MongoDB (Local or MongoDB Atlas)

•**Authentication:** bcrypt, JWT (JSON Web Tokens)

•**Email Services:** Nodemailer (for email notifications)

Bibliography

Website Development Resources

· Duckett, Jon. HTML and CSS: Design and Build Websites. Wiley, 2011.

· Duckett, Jon. JavaScript and JQuery: Interactive Front-End Web Development. Wiley, 2014.

Database and Backend Development

· Welling, Luke, and Laura Thomson. PHP and MySQL Web Development. Addison- Wesley, 2008.

· Murach, Joel. Murach's MySQL. Mike Murach & Associates, 2012.

UI/UX Design

· Tidwell, Jenifer. Designing Interfaces: Patterns for Effective Interaction Design. O'Reilly Media, 2019.

· Krug, Steve. Don't Make Me Think: A Common Sense Approach to Web Usability. New Riders, 2014.

Project Management and Development

· Sommerville, Ian. Software Engineering. Addison-Wesley, 2015.

· Pressman, Roger S. Software Engineering: A Practitioner's Approach. McGraw-Hill Education, 2014.

THANK YOU