Tech Stack Documentation

1. FRONTEND

- Framework: React.js (with Vite or CRA)
- Ul Library: Tailwind CSS / Material-Ul
- State Management: Redux Toolkit / Context API
- Routing: React Router
- Form Handling: React Hook Form / Formik
- Authentication: JWT token management (via localStorage or HttpOnly cookies)
- Other Libraries:
 - Axios (API calls)
 - React Query (data fetching and caching)
 - Chart.js / Recharts (analytics)
 - react-toastify (notifications)

2. BACKEND

- Runtime: Node.js
- Framework: Express.js
- Authentication: Passport.js / custom JWT middleware
- Authorization: Role-based access
- Validation: express-validator / Joi
- Security:
 - Helmet (HTTP headers)
 - Rate Limiting (express-rate-limit)
 - CORS configuration

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3. DATABASE

• Primary Database: MySQL

• **ORM**: Sequelize / Prisma

4. APIS & LIBRARIES USED

External APIs:

- Email API (SendGrid / Mailgun)
- Job Skill Extraction API (custom NLP / third-party like TextRazor)

Internal APIs:

- RESTful API built with Express.js
- Authentication (login, register, password reset)
- Job matching logic (recommendations based on skills, preferences)
- Admin API for moderation and analytics

5. TOOLS TO BE USED FOR TESTING

• Frontend Testing:

- Jest
- React Testing Library
- Cypress (E2E)

Backend Testing:

- Mocha / Jest
- Supertest (for API routes)

• Linting & Code Quality:

- ESLint
- Prettier

• CI/CD Integration:

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- GitHub Actions / GitLab CI
- 6. TOOLS TO BE USED FOR TESTING
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