

SKILLSYNC - JOB MATCHMAKING APP FULL REQUIREMENTS LIST

(Ensure that appropriate comments are included throughout the entire code)

1. Homepage

- Welcome message: "Welcome to SkillSync"
 - Brief description of the app (two lines) explaining its purpose
 - Register and Login buttons for user access
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2. User Registration

- **Functionality:**
 - Register button redirects to a registration page
 - User selects one of three roles: Jobseeker, Employer, Admin
 - Collect necessary details during registration (e.g., name, email, password)
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3. User Login

- **Functionality:**
 - Login button redirects to the login page
 - User authentication using email and password stored in the database
 - Redirect users to their respective dashboards based on their role (Jobseeker, Employer, or Admin)
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4. Dashboards (Role-based)

- **Jobseeker Dashboard:**

- **Profile Creation & Management:**

- Create and manage detailed profiles
- Showcase skills, experience, and qualifications

- **Resume Upload:**

- Upload resumes in PDF format

- **Resume Parsing:**

- Automatically extract key details from resumes to simplify profile creation

- **AI-Powered Skill Gap Analysis & Course Recommendations:**

- Identify missing skills and recommend relevant courses

- **Intelligent Job Matching:**

- Match candidates to relevant job openings based on qualifications and preferences

- **Real-Time Job Market Insights:**

- Display hiring trends, salary benchmarks, and in-demand skills

- **Interview Reminder:**

- Redirect to Google Calendar to create interview reminders

- **Employer Dashboard:**

- **Hassle-Free Job Posting & Management:**

- Post, edit, and manage job listings

- **Automated Candidate Screening:**

- Filter candidates based on employer-defined criteria
 - **Personalized Dashboard:**
 - Track applications, interviews, and hiring progress
 - **Real-Time Job Market Insights:**
 - Display hiring trends, salary benchmarks, and in-demand skills
 - **Admin Dashboard:**
 - Monitor and manage jobseeker and employer profiles
 - View platform analytics and user activity
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5. Logout Feature

- **Functionality:**
 - Users can log out from their respective dashboards.
 - Upon logout, the session is terminated, and the user is redirected to the homepage.

6. Testing

Manual Testing:

Unit Testing:

- Test individual components such as:
 - User authentication (login, logout, session handling)
 - Resume parsing functionality
 - Job matching algorithm
 - AI-driven course recommendations

- **Functional Testing:**

- Verify user registration, login, logout, and dashboard navigation
- Check profile creation, resume upload, and parsing functionality
- Ensure job posting and job matching work as expected

Automation Testing:

- **Unit Testing:**

- Test core functionalities like login, registration, and resume parsing

- **Integration Testing:**

- Automate tests for data flow between modules (e.g., job matching algorithm)