

Analysis Document for Employment Platform for Software Developers

1. Functional Requirements

1. Employee Registration:

- The system must allow employees to register by providing personal information (National ID, Name, City, E-mail, biography).
- The system must allow employees to input their technical information, including programming languages they know and their experience level (Junior, Mid, Senior).

2. Job Search and Application:

- Employees must be able to search for available job vacancies based on criteria such as programming languages, city, and experience level.
- Employees must be able to apply for jobs directly through the platform.

3. Job Posting:

- Employers must be able to post job vacancies by providing job details like programming languages required, experience level, and location.

4. Employment Process Management:

- The system must allow employers to accept or reject job applications.
- Employees must be informed when their application is accepted or rejected.

5. Matching Jobs to Employees:

- The system should automatically inform employees about job vacancies that match their skills, including matching keywords in their bio.

6. Employee Profile Summary:

- The system must provide employees with a summary of their profile status, including the number of views their profile has received.

7. Employer Search and Requests:

- Employers can search for employee profiles and request a number of applications based on the following criteria:
 - Programming languages known by the employee.
 - The city in which the employee resides.
 - Experience level (Junior, Mid, Senior).
 - Information contained within the employee's biography.

8. Notifications (Email):

- The system must notify employees of job matches and status updates on their applications.
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2. Non-Functional Requirements

1. Performance:

- The system should handle all users concurrently with minimal response time, ensuring that each page loads within minimal time.

2. Scalability:

- The platform must be scalable to accommodate future growth, including more employees, employers, and job postings without performance degradation.

3. Security:

- Employee and employer information must be securely stored, and the system should implement proper encryption for sensitive data such as passwords.
- Support for secure authentication, including password protection.

4. Usability:

- The platform should have an intuitive user interface, allowing both employees and employers to easily navigate and use the system without prior training.
- The registration and job search process should be streamlined, taking no more than 10 minutes for an employee to complete their profile.

5. Reliability:

- The system must have an uptime of 99.9%, ensuring constant availability for both employees and employers.

6. Maintainability:

- The system should be designed in a modular way to ensure easy updates and modifications as new features are introduced.

7. Data Privacy:

- The platform must comply with data privacy regulations, ensuring that employee personal and technical data are only accessible by authorized employers and system administrators.

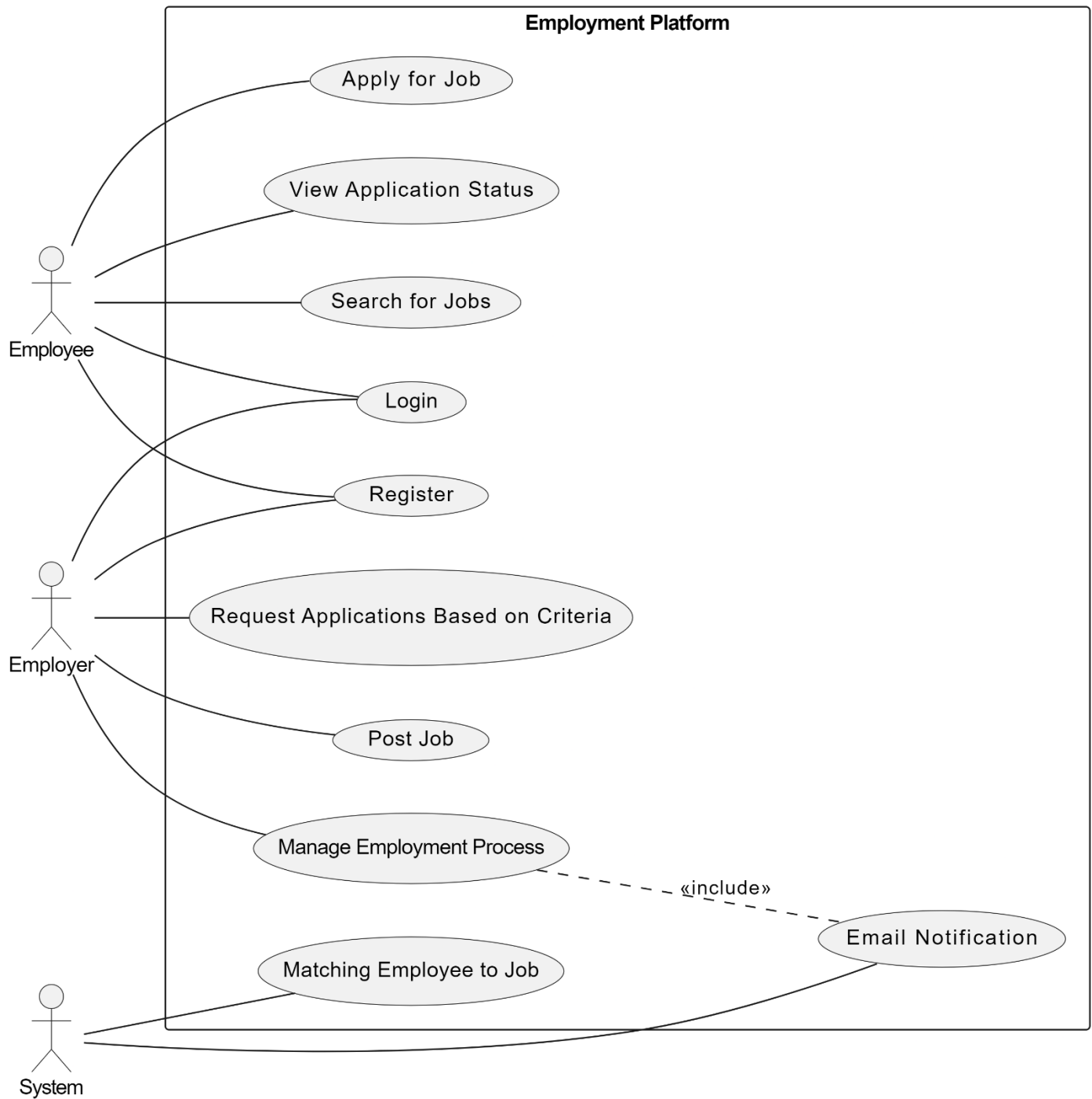
8. Cross-Browser Compatibility:

- The platform must be compatible with major web browsers (Chrome, Firefox, Safari, Edge) and provide a responsive design for mobile devices.

9. Search Efficiency:

- The system should provide efficient search functionality, ensuring that job search results and profile search results are returned in minimum time.
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Use Case Diagram



Logical design of the system (ERD)

