Online Job Recruitment System Requirements Specification Part-2

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1. System Architecture and Component Diagram :

1.1 System Architecture :

Based on the outlined project requirements and considerations, choosing the Microservices architecture seems like a suitable decision. Let's break down the reasons for selecting Microservices for each aspect of the project:

Scalability:

Microservices architecture allows for individual services to be scaled independently. This is beneficial when certain components of the system, such as Workload Information or Employee Management, require more resources without affecting the entire application.

Ease of Integration:

Microservices can be seamlessly integrated, both internally and externally, through well-defined APIs. This is crucial for components like System Dashboard and Employee Management, which may need to interact with external systems or services.

Non-functional Requirements:

Microservices enable the application to meet non-functional requirements effectively. For example, the System Database can be managed as a separate service, ensuring data integrity and availability without compromising the overall system.

High Security:

Microservices allow for the implementation of customized security policies for each service. This is particularly important for sensitive components like Login Access, Account Management, and Salary Information, where different security measures may be required.

Superior Performance:

Performance can be optimized independently for each microservice, enhancing the overall application performance. This is beneficial for components such as the System Dashboard, which may require efficient processing and presentation of data.

Resilience and Continuity:

Microservices contribute to system resilience and continuity. In case of a failure in one service (e.g., Login Access), other services can continue to function without disruption. This is crucial for maintaining continuous access to components like Employee Management and Workload Information

1.2Component Diagram

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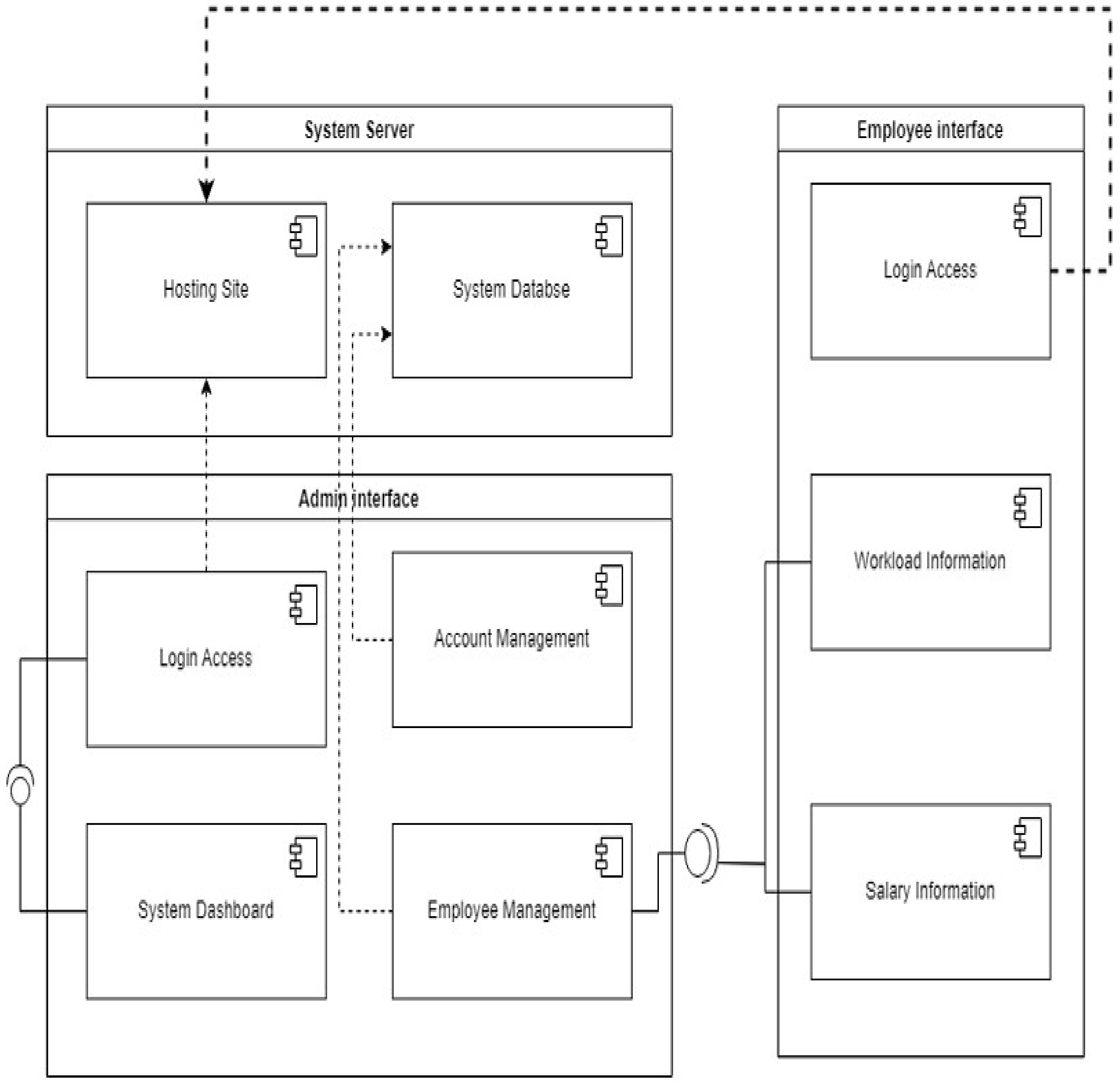
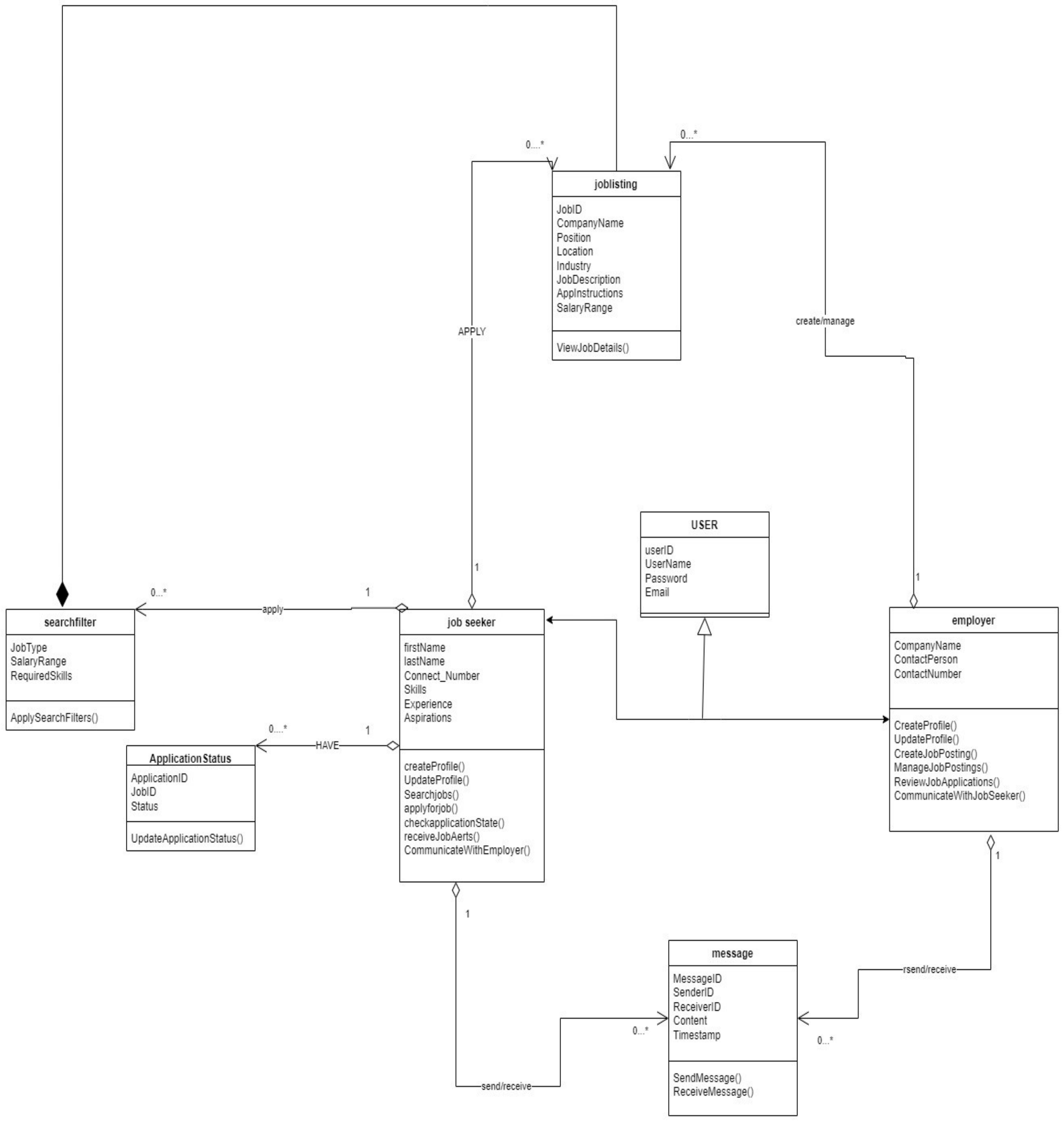
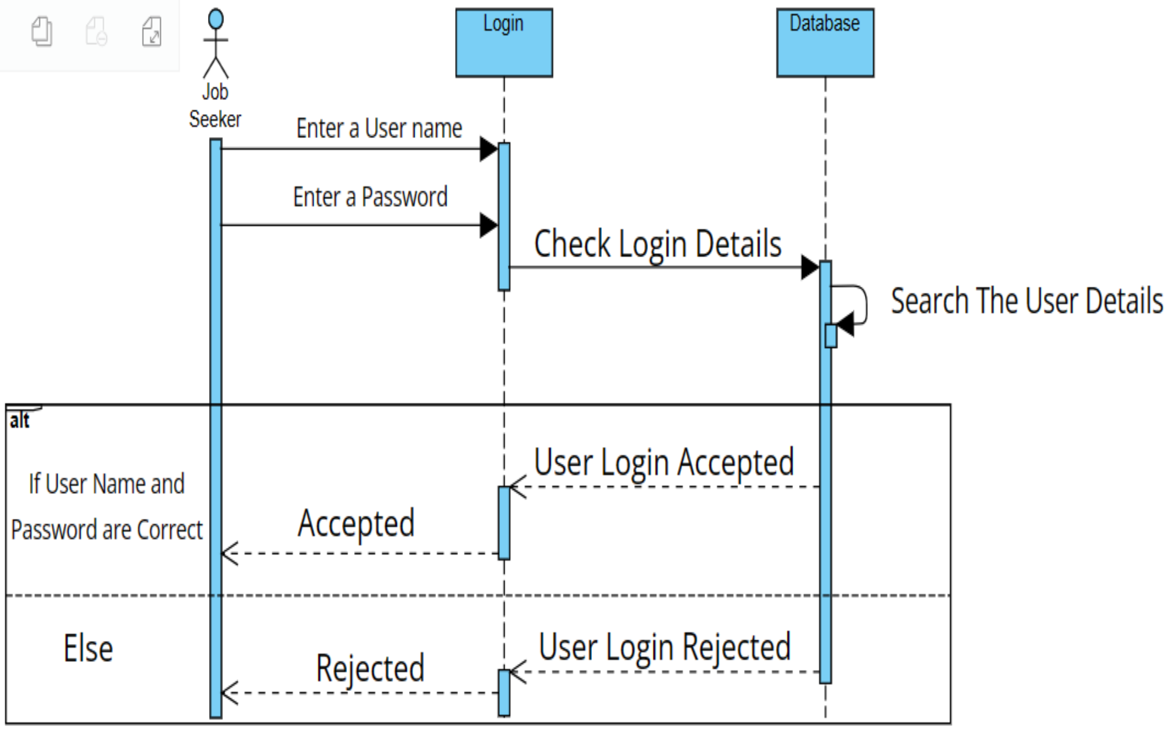
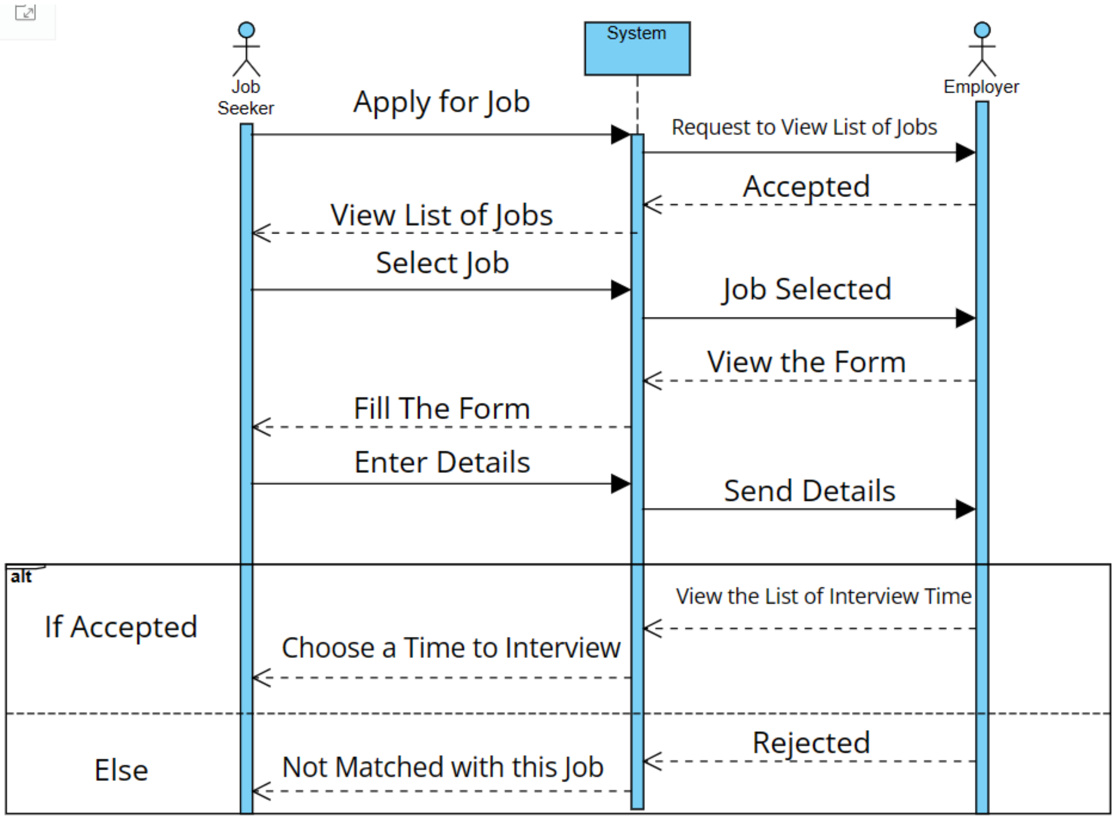


2. Class Diagram

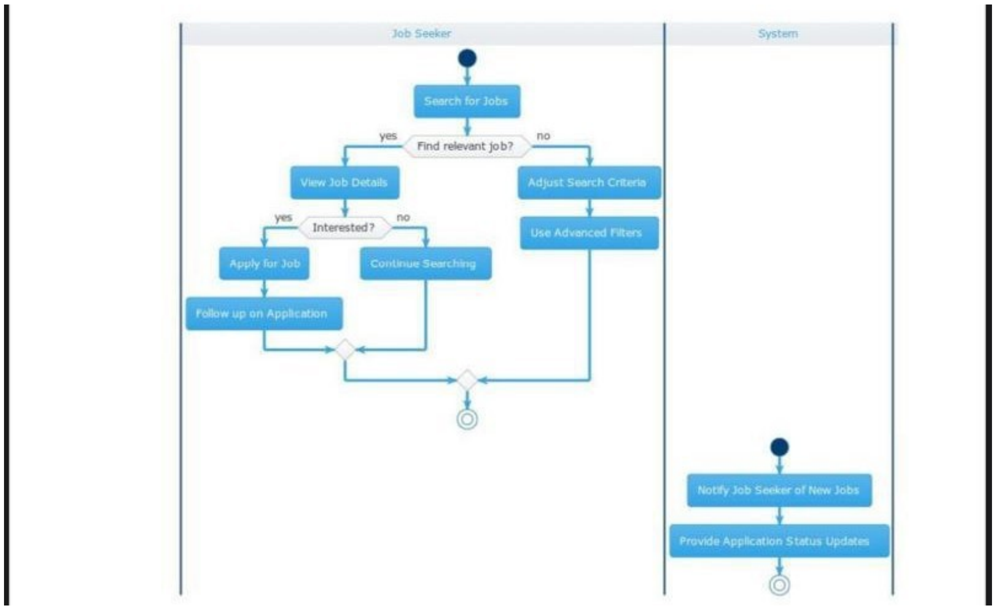


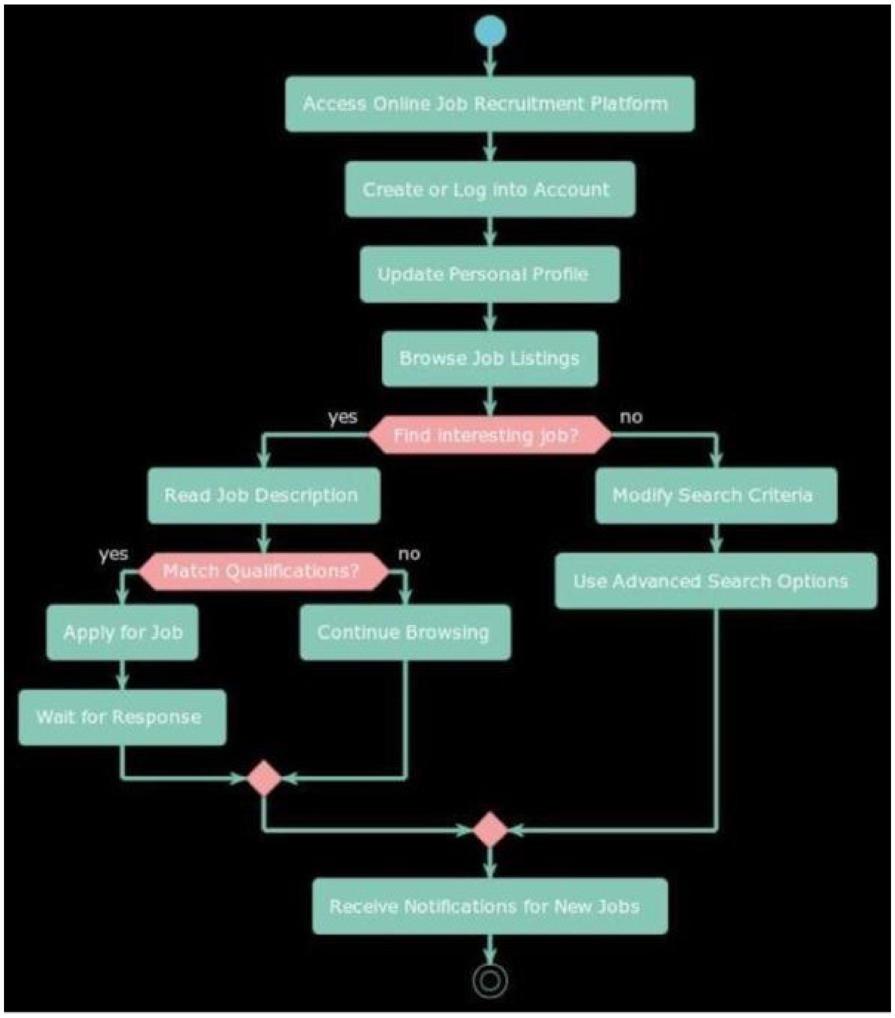
3. Revised Sequence Diagram



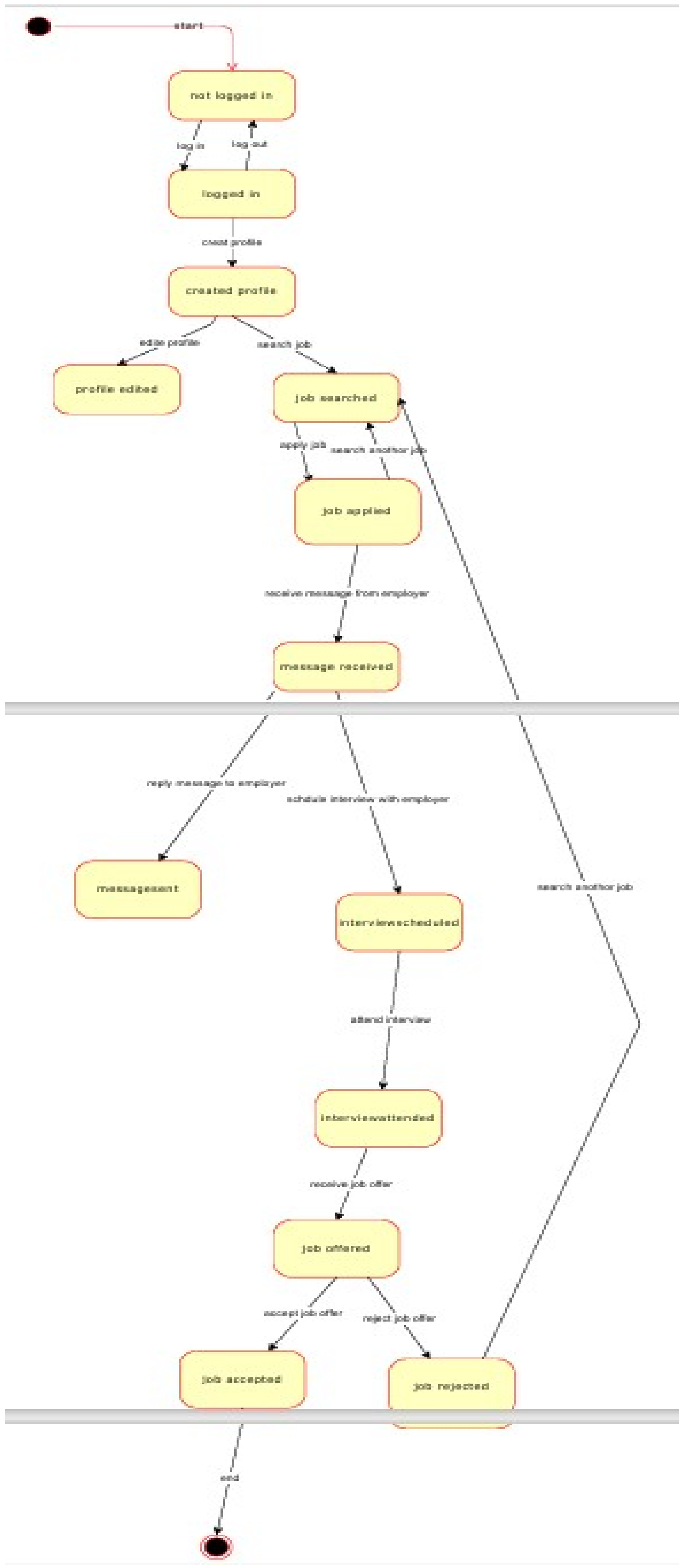


4. Activity Diagram





5. State-Transition Diagram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log in
log out
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apply job
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message received
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accept job offer
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job accepted
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