Job Fair Management Application - Requirements Specification

Objective:

To design and develop a comprehensive application to manage job fair events efficiently. The application will facilitate interactions between students, HR representatives, career center ambassadors, and school administrators. By leveraging modern tools such as QR codes and AI-generated insights, the app aims to streamline the entire event experience.

Scope of Work:

The application will include multiple modules to support distinct user roles with specialized functionalities:

CheckInAgent:

- Scans student QR codes to identify and validate attendance.

Student:

- Fills out a detailed registration form including:

  - Name, study level, CV, picture, phone number, email, participation time (morning/afternoon), listof companies of interest, and specialty.
- Generates a unique QR code for profile identification.

- Uploads and updates documents such as CVs and pictures.

HR Representative:

- Registers with the application, providing name, company, email, booth location, and profile needs.

- Scans QR codes to access detailed student profiles.

- Saves, rates, and likes student profiles.

- Utilizes AI-generated insights to identify the best matches for hiring needs.

School Administrator:

- Oversees the entire application and event operations.
- Accesses dashboards with real-time data visualizations.
- Manages app users, including students, HR representatives, and ambassadors.
- Generates and manages AI insights for both students and HR representatives.
- Sends invitations to HR representatives and emails to students for event coordination.

Career Center Ambassador:

- Scans QR codes to identify students and manage their queue for interviews.
- Updates interview schedules in real time to ensure a smooth flow of activities.

Career Center Manager:

- Accesses and reviews student CVs to provide meaningful feedback.
- Utilizes AI-generated insights to better understand student capabilities and prepare actionablerecommendations.

AI Insights:

- Generates personalized insights for students based on their profiles to highlight strengths andareas for improvement
- Provides HR representatives with actionable insights to facilitate better candidate matching.

Technology Requirements:

- QR code generation and scanning for streamlined interactions.
- A secure database for storing sensitive information, such as CVs and personal details.
- Integration of AI/ML models for generating insights and analytics.
- Real-time notification and event update mechanisms.
- Multi-platform support for web and mobile devices.

Design Considerations:

- The user interface should be intuitive and role-specific to ensure accessibility and ease of use.
- Multilingual support to accommodate international job fairs.
- Compliance with data security and protection regulations, including encryption and secure authentication.

Deliverables:

- A fully functional application tailored to the specified user roles.
- Detailed documentation, including user guides and technical specifications for future reference.
- Comprehensive training sessions for administrators and key users to ensure smooth onboarding.

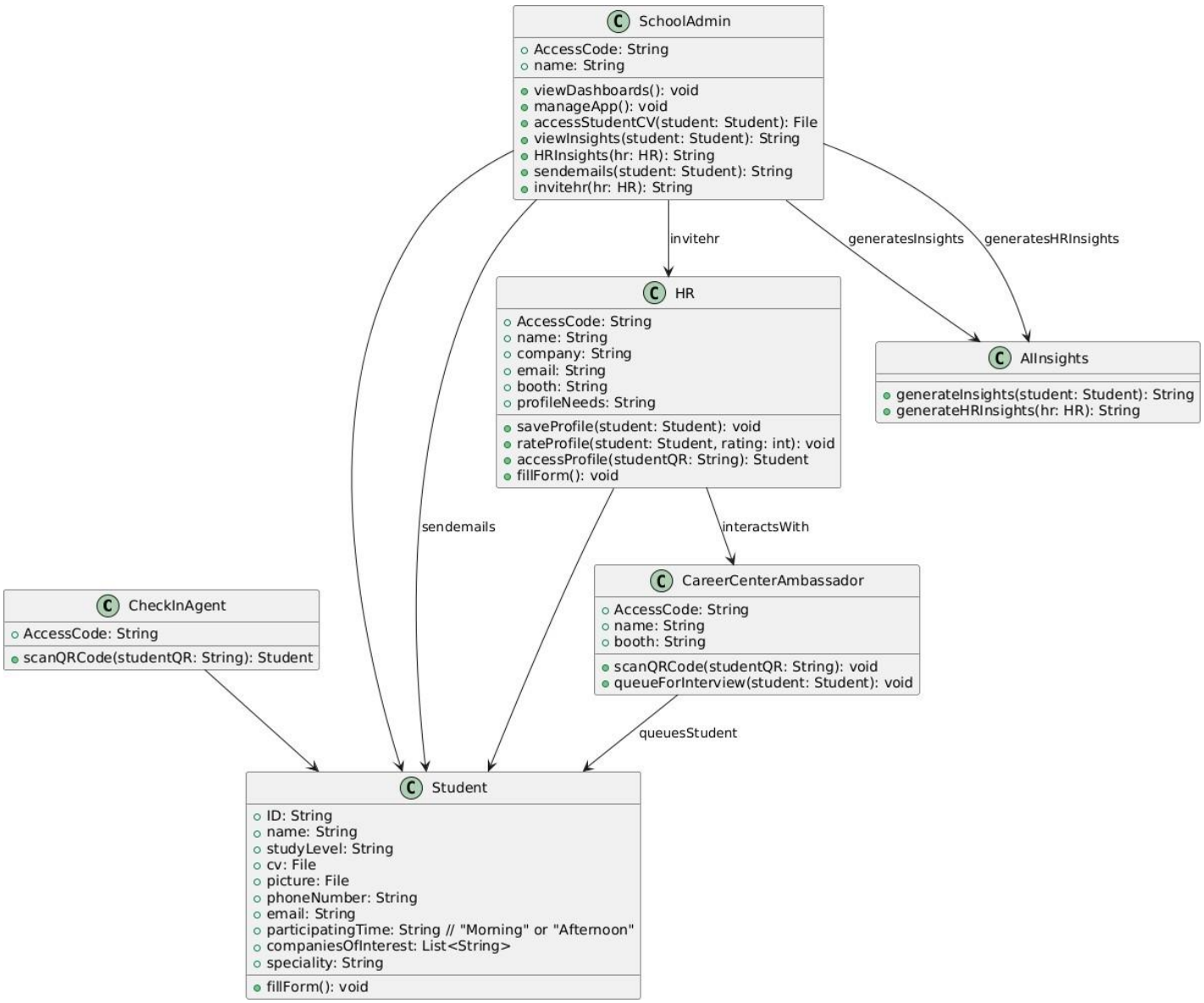
Performance Metrics:

- QR code scanning should be completed within 1 second for optimal efficiency.
- AI insights must maintain a precision rate of at least 95%.
- User satisfaction scores should average 90% or higher during testing.

Conclusion:

The Job Fair Management Application is designed to optimize the organization and execution of job fair events. By integrating innovative technologies and providing user-specific functionalities, the app will ensure a seamless and productive experience for all stakeholders involved.

Class Diagram :



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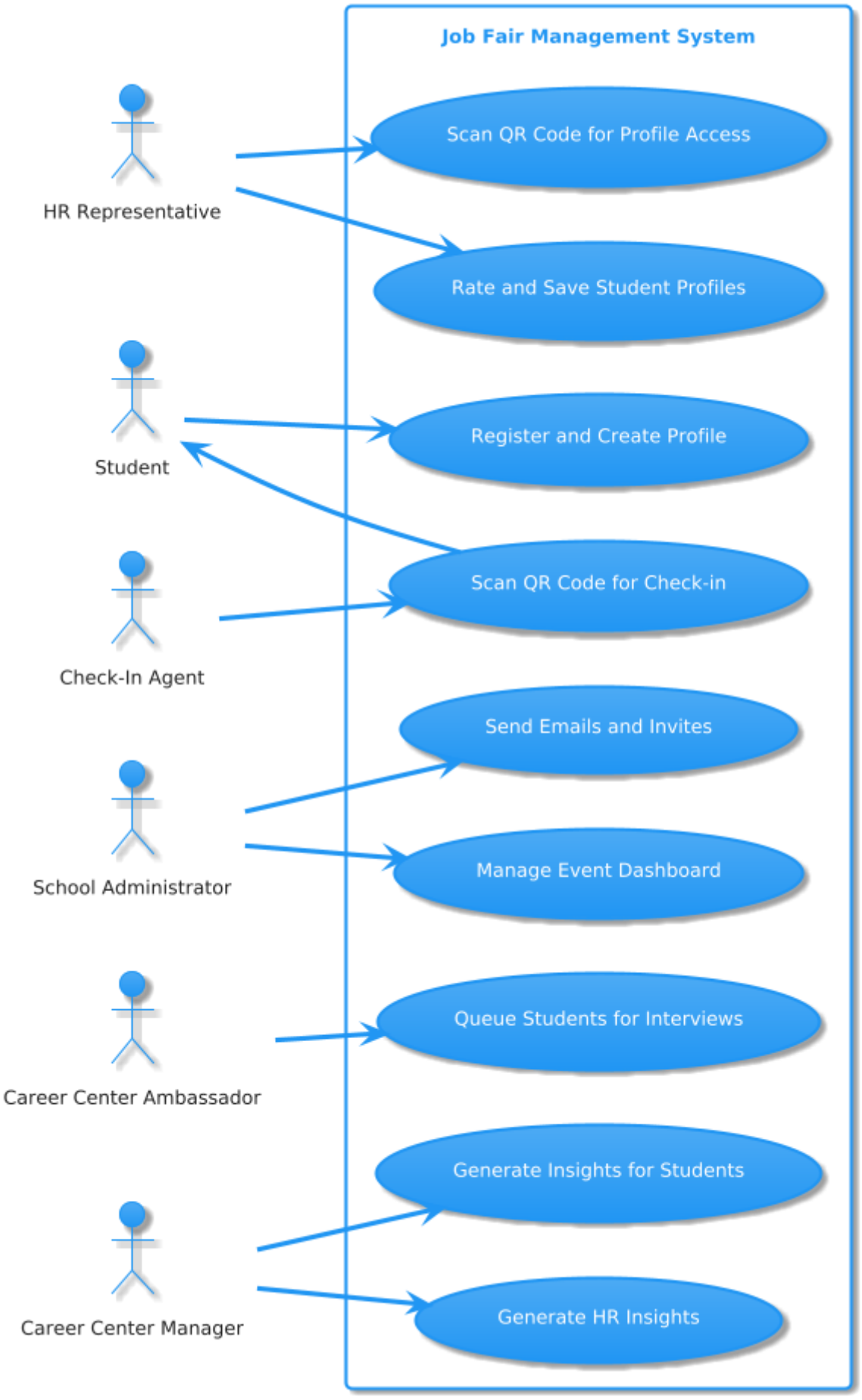
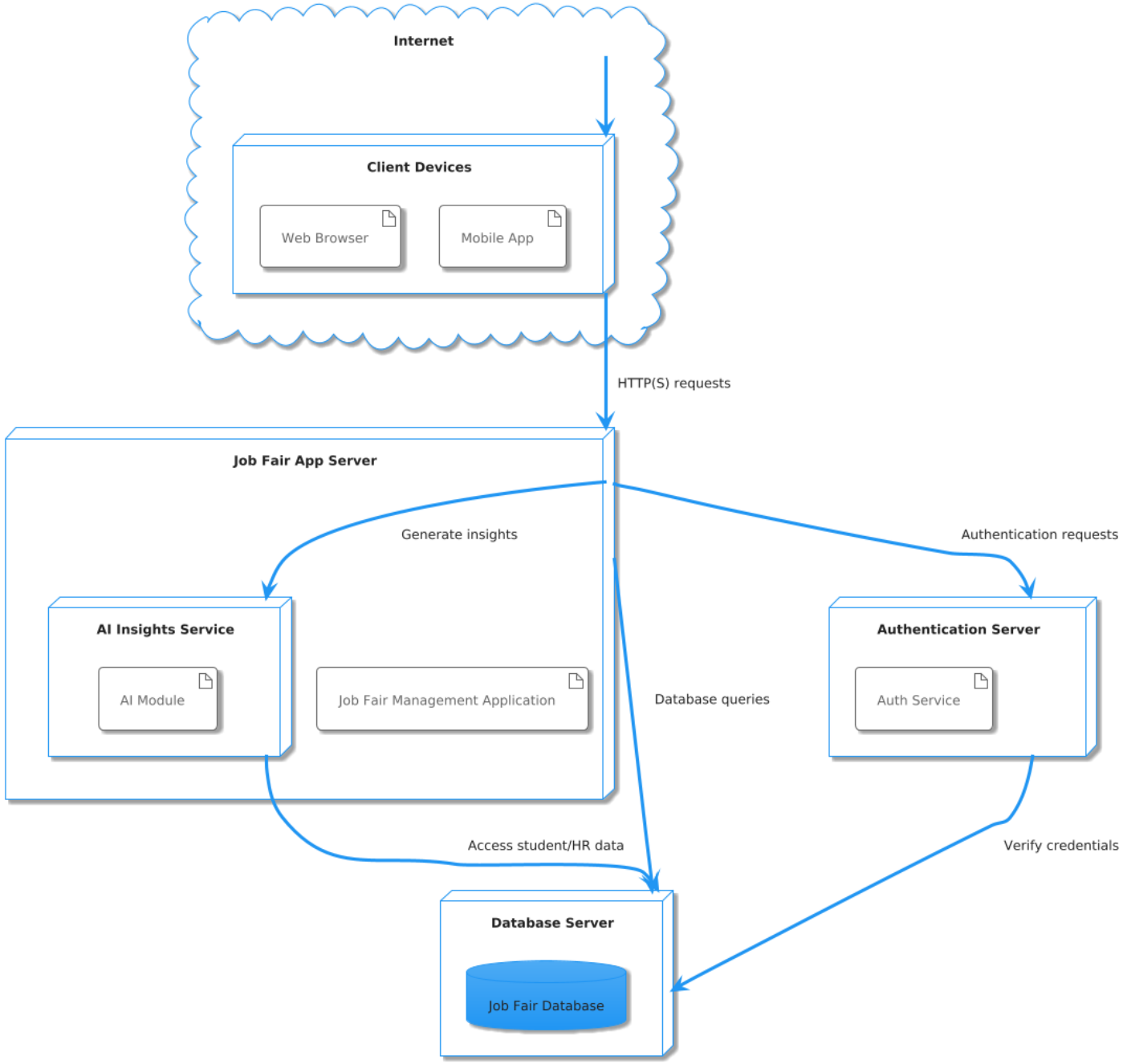
Use Case Diagram :



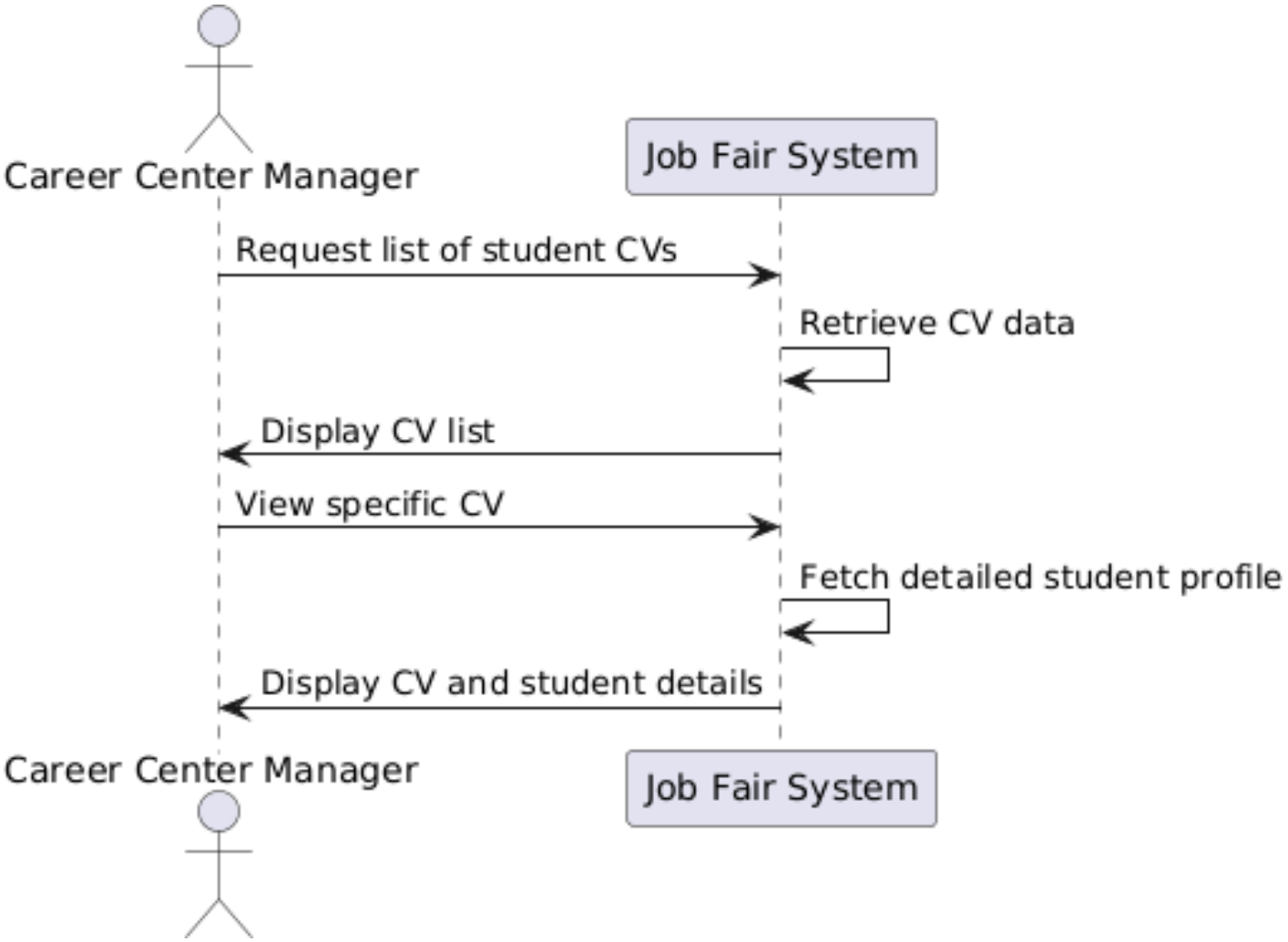
Job Fair Management Application - Detailed Documentation

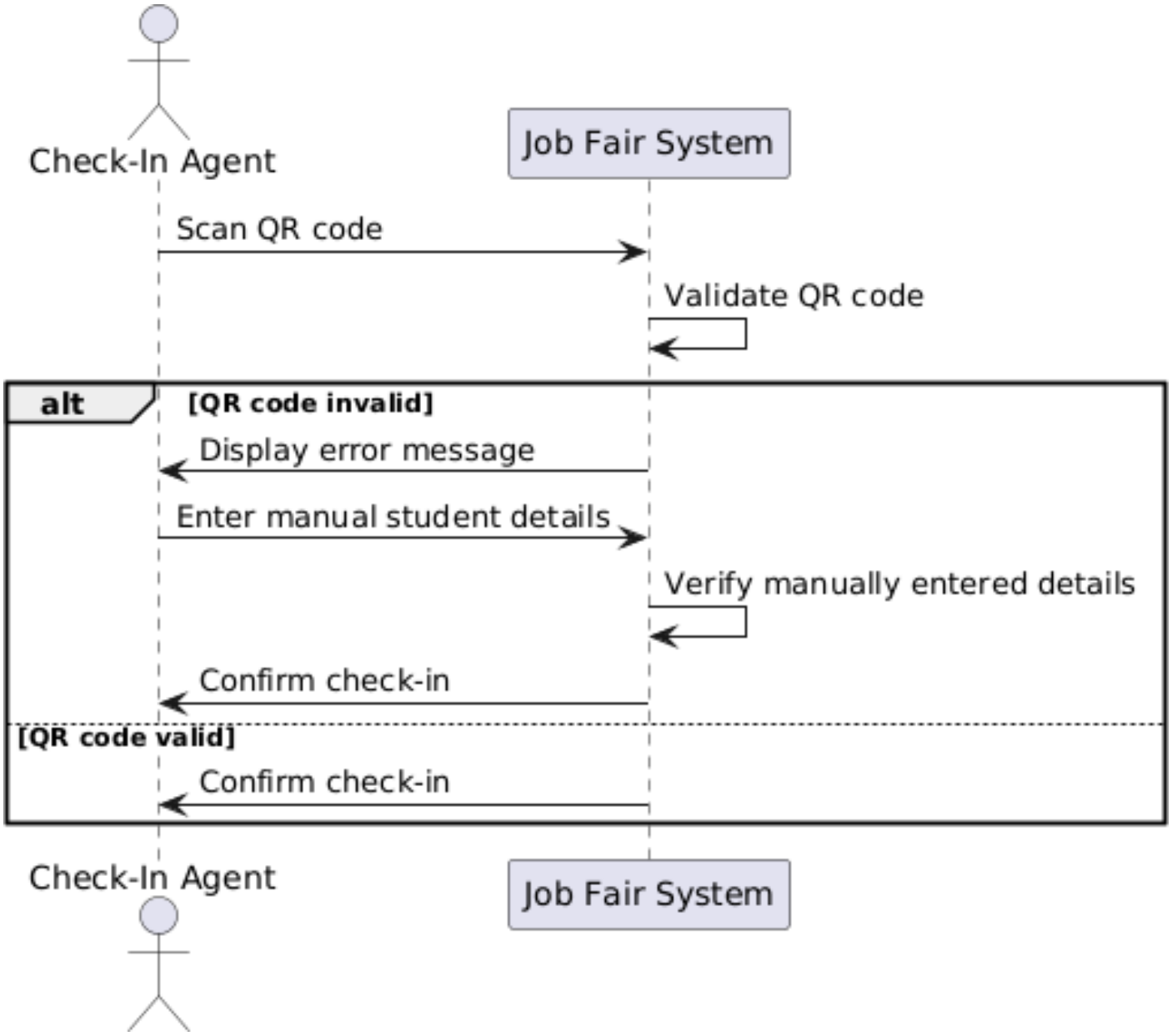
Deployment Diagrams:

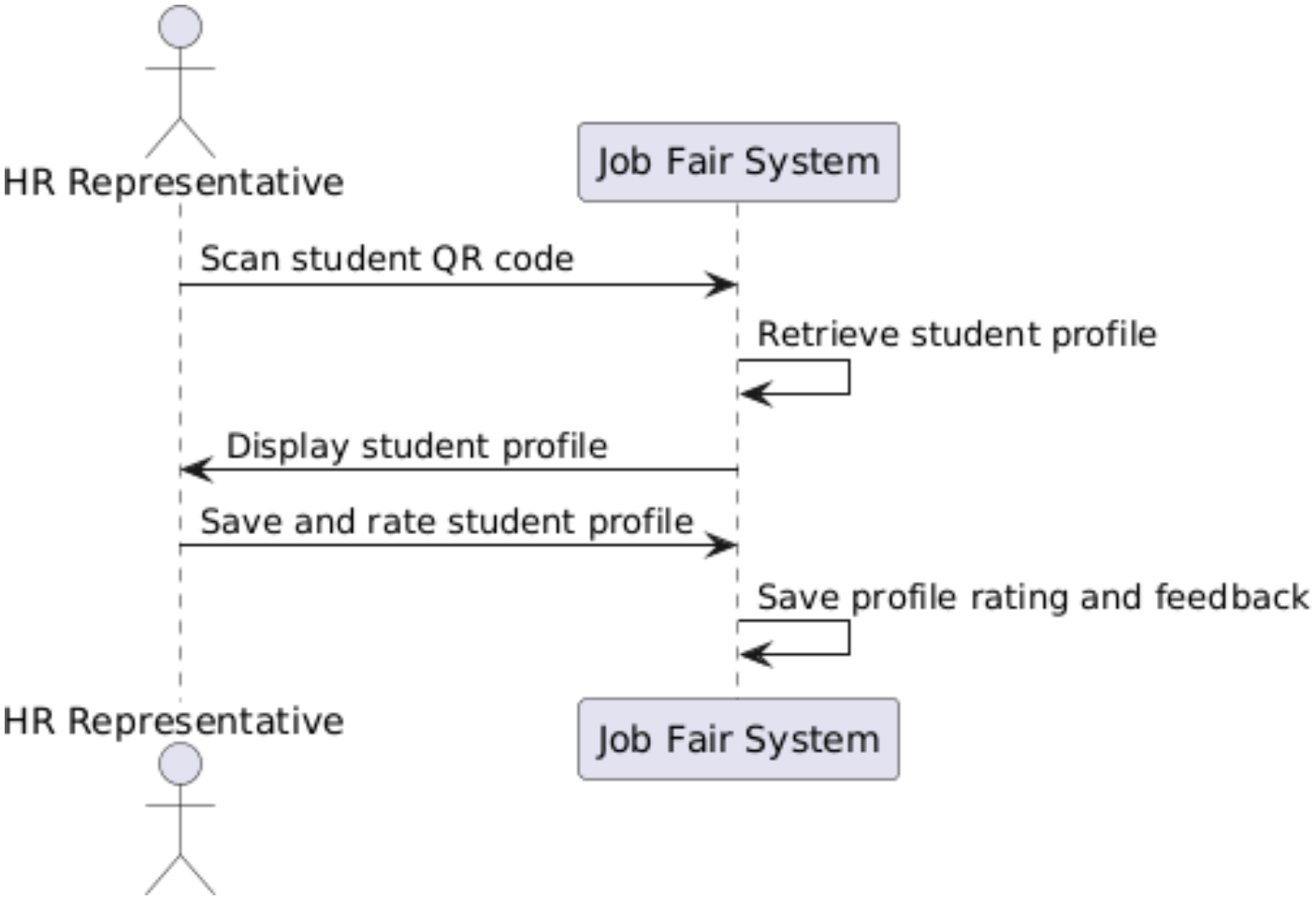


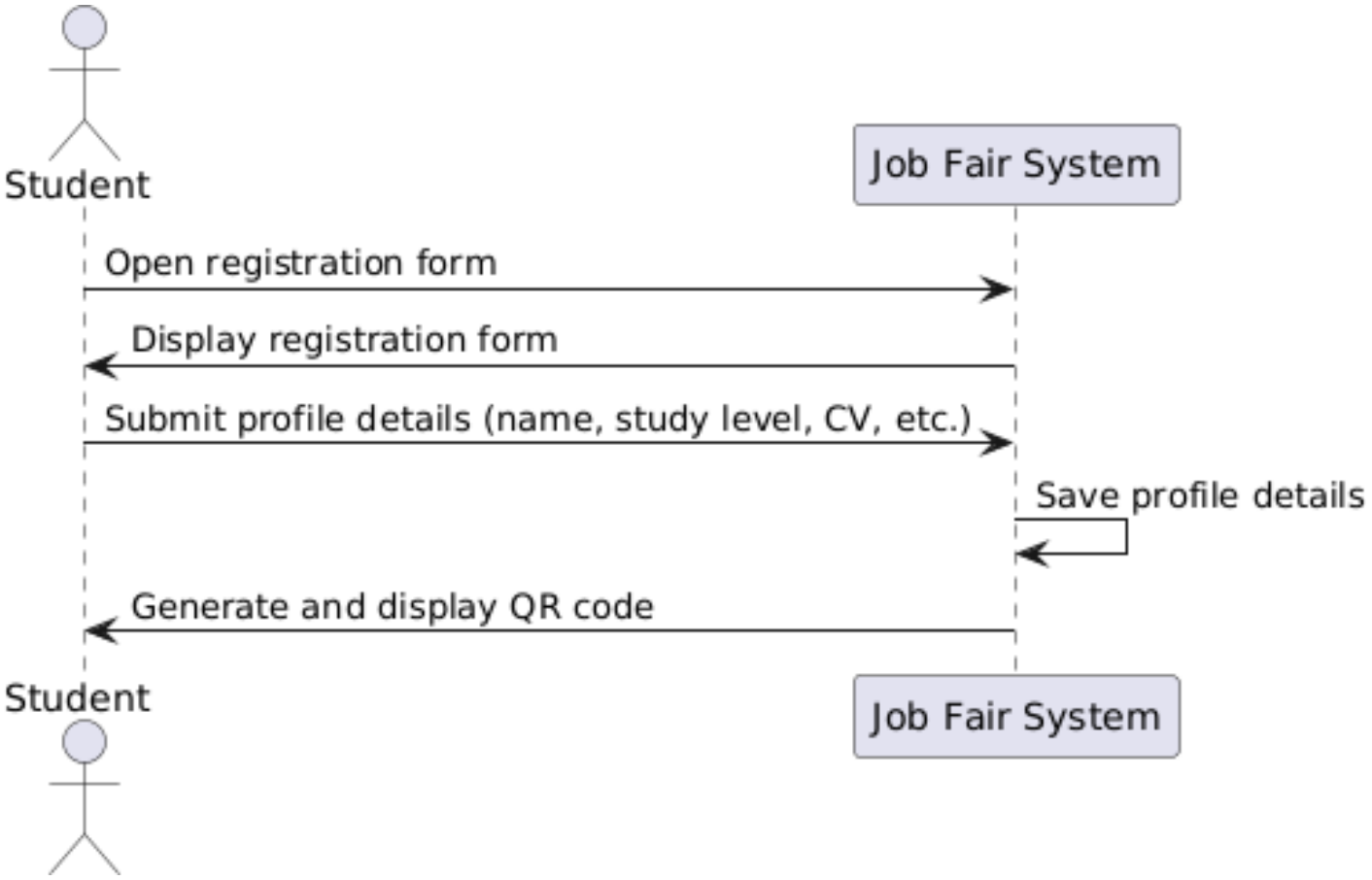
Sequence Diagrams:

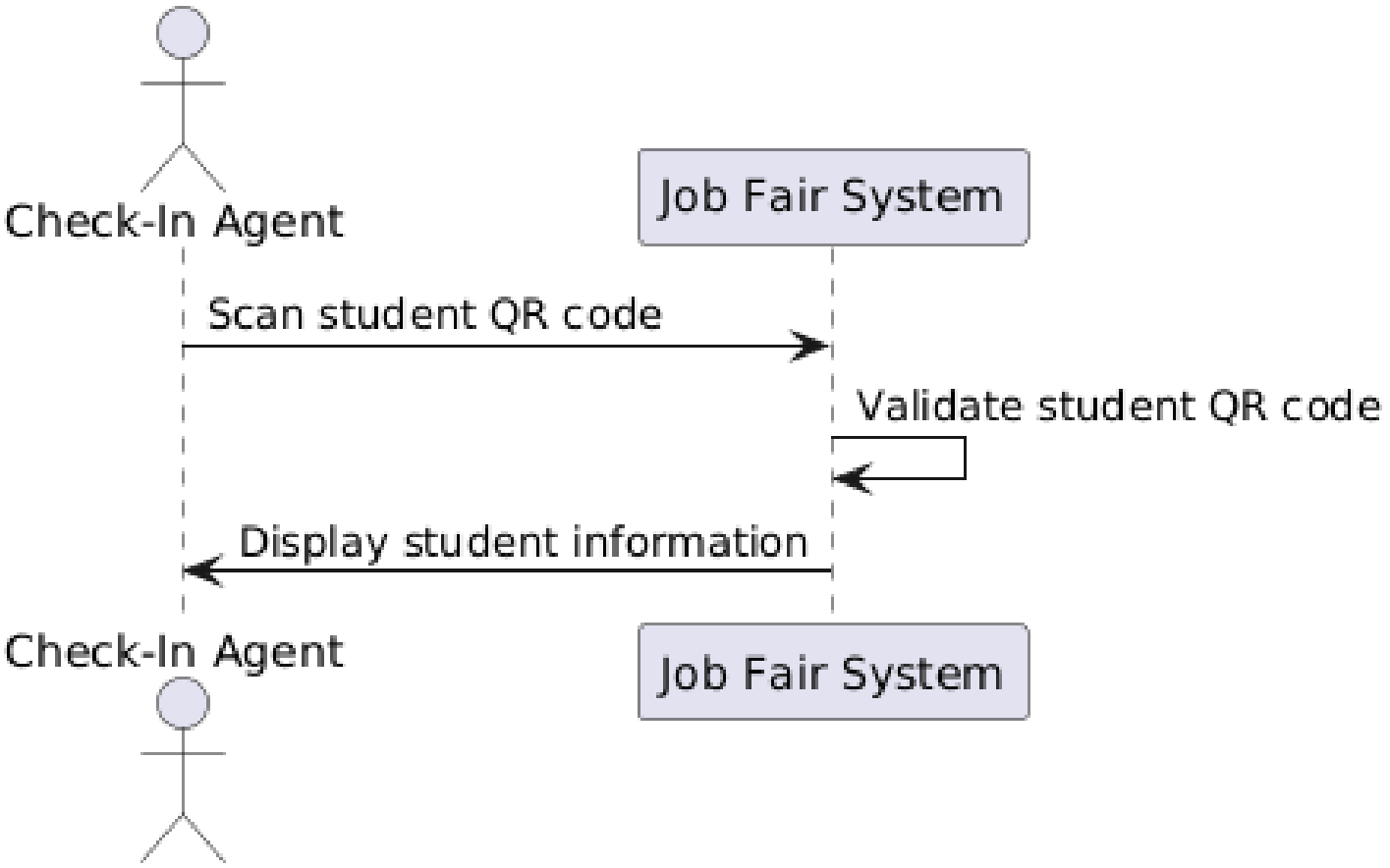
The following sequence diagrams illustrate various interactions within the Job Fair Management Application.

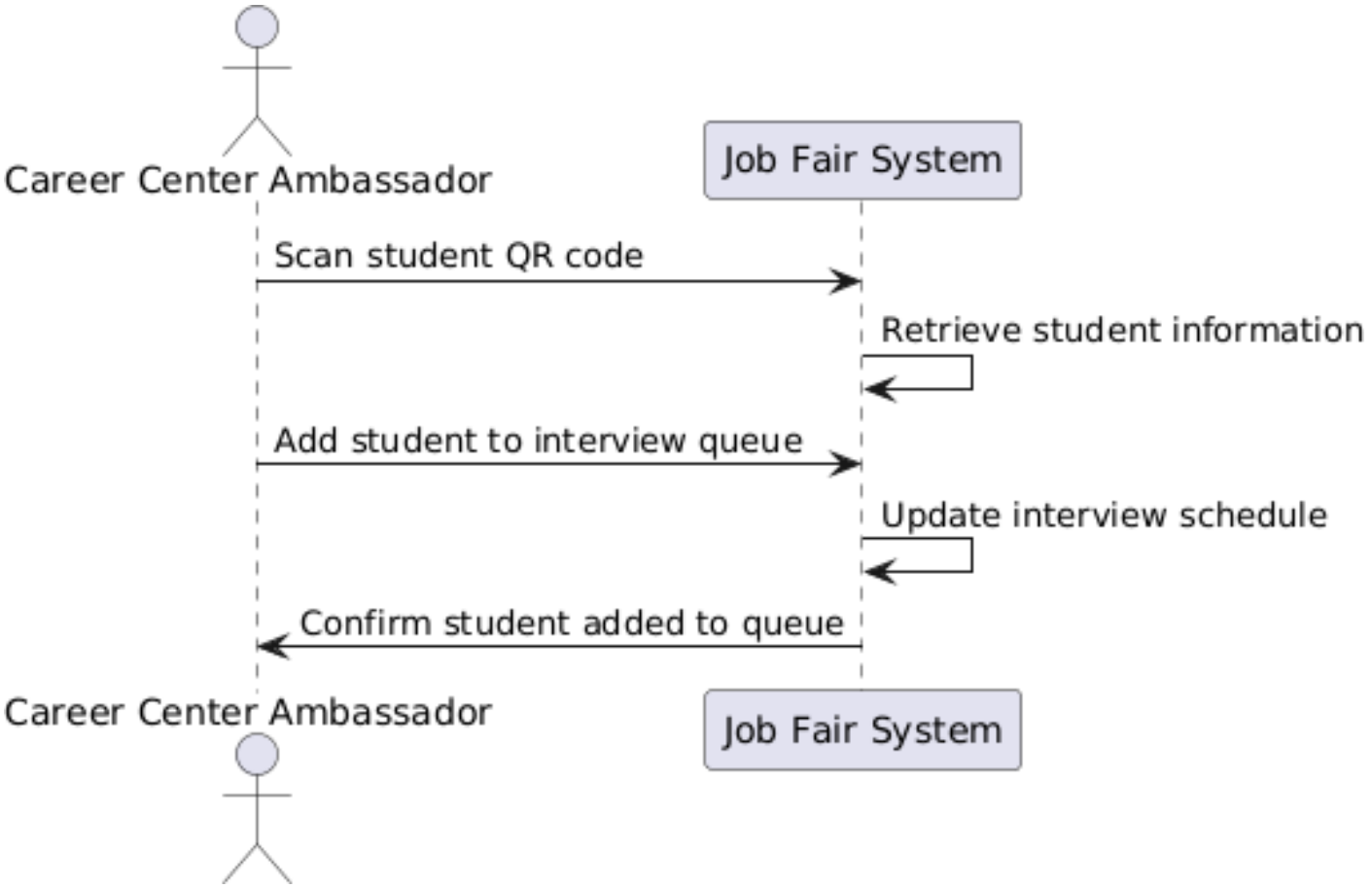

Career Center Manager
Job Fair System
Request list of student CVs
Retrieve CV data
Display CV list
View specific CV
Fetch detailed student profile
Display CV and student details
Career Center Manager
Job Fair System

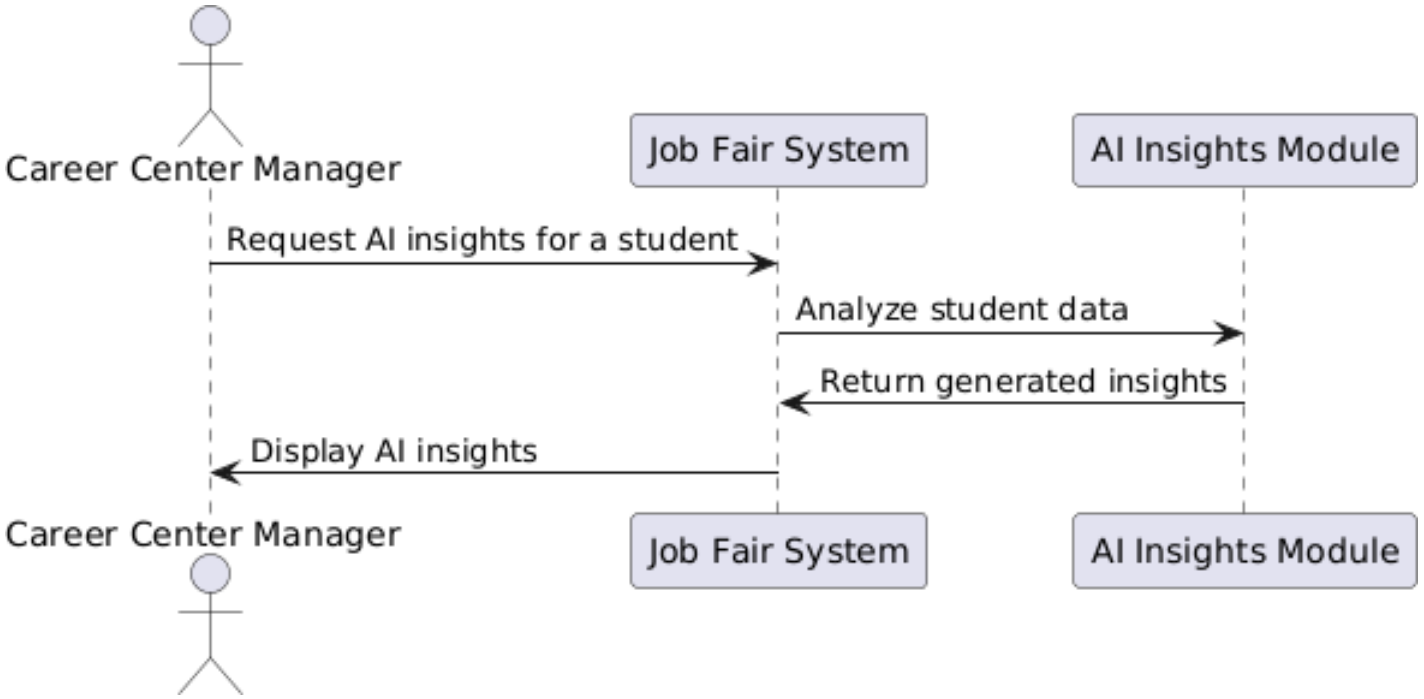

Check-In Agent
Job Fair System
Scan QR code
Validate QR code
alt
[QR code invalid]
Display error message
Enter manual student details
Verify manually entered details
Confirm check-in
[QR code valid]
Confirm check-in
Check-In Agent
Job Fair System

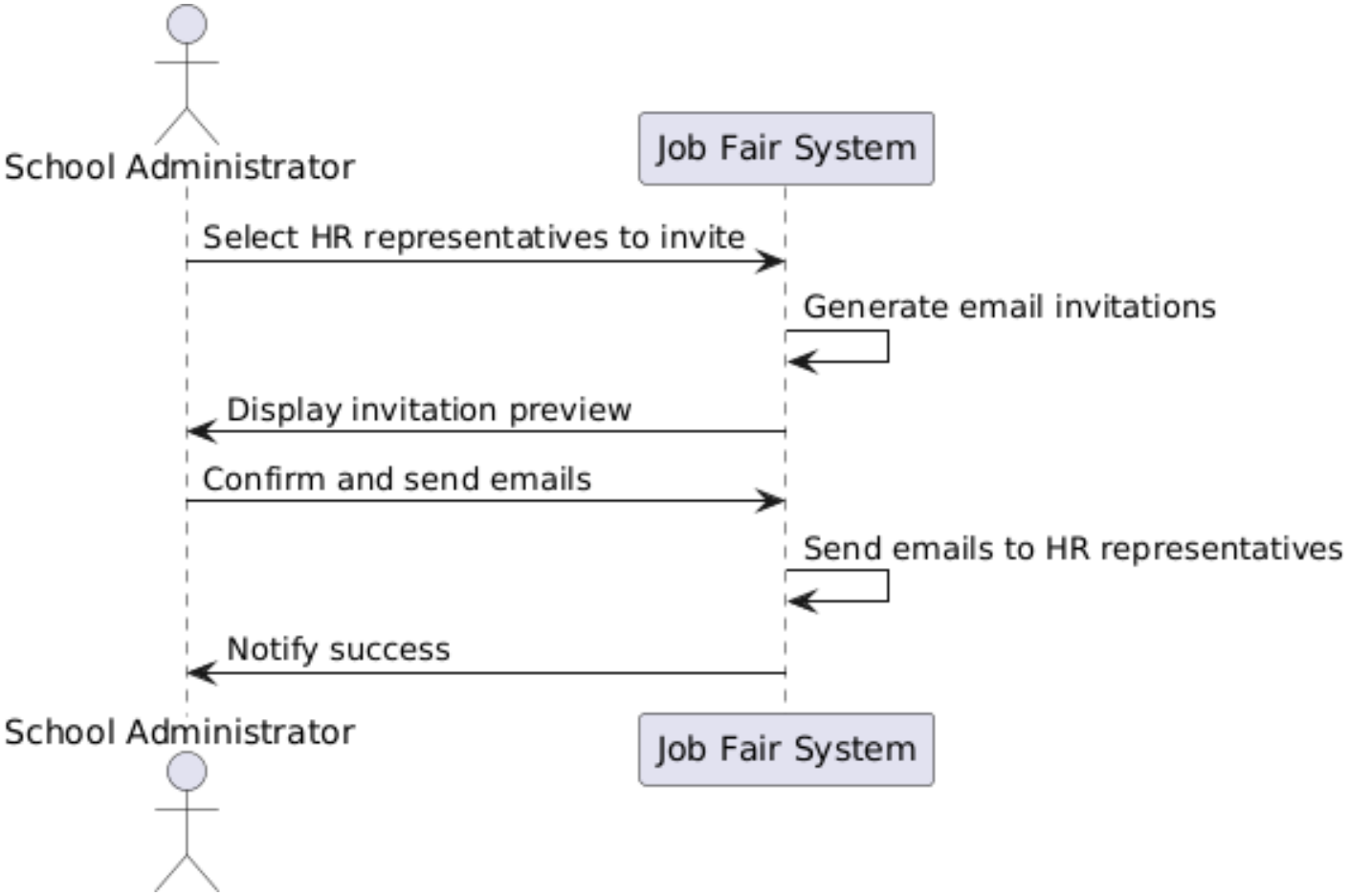

HR Representative
Job Fair System
Scan student QR code
Retrieve student profile
Display student profile
Save and rate student profile
Save profile rating and feedback
HR Representative
Job Fair System

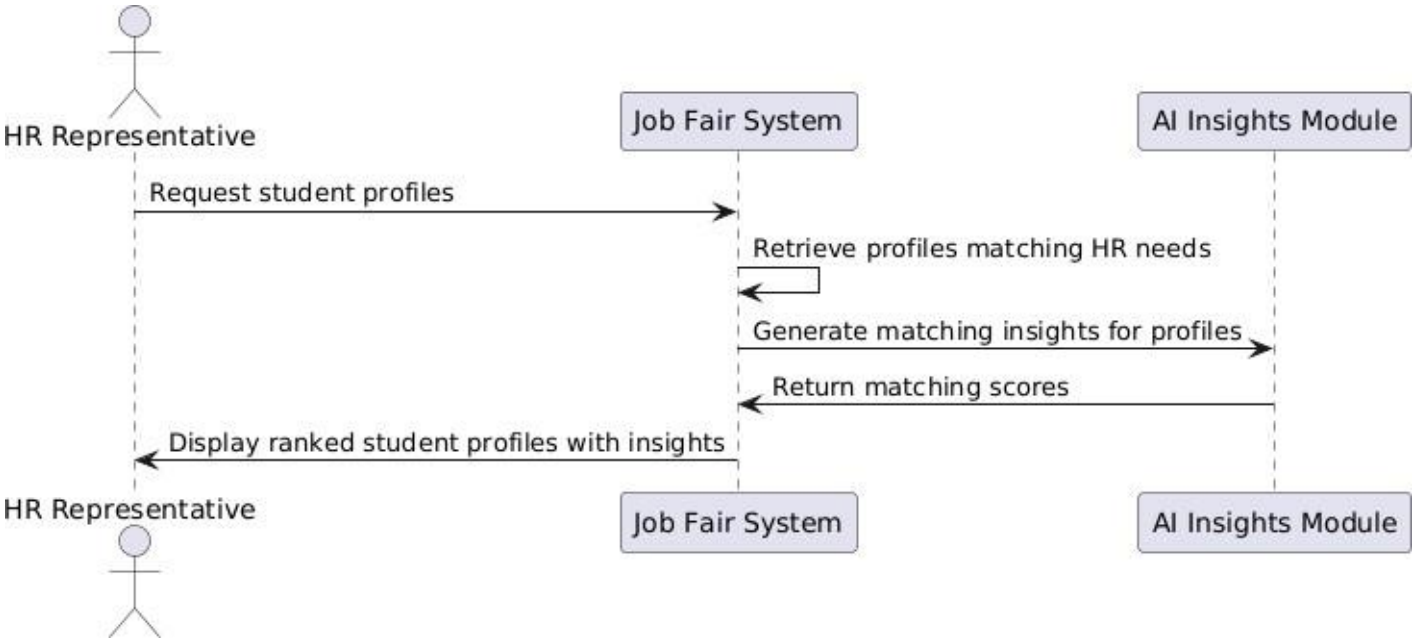

Student
Job Fair System
Open registration form
Display registration form
Submit profile details (name, study level, CV, etc.)
Save profile details
Generate and display QR code
Student
Job Fair System


Check-In Agent
Job Fair System
Scan student QR code
Validate student QR code
Display student information
Check-In Agent
Job Fair System


Career Center Ambassador
Job Fair System
Scan student QR code
Retrieve student information
Add student to interview queue
Update interview schedule
Confirm student added to queue
Career Center Ambassador
Job Fair System


Career Center Manager
Job Fair System
AI Insights Module
Request AI insights for a student
Analyze student data
Return generated insights
Display AI insights
Career Center Manager
Job Fair System
AI Insights Module


School Administrator
Job Fair System
Select HR representatives to invite
Generate email invitations
Display invitation preview
Confirm and send emails
Send emails to HR representatives
Notify success
School Administrator
Job Fair System


HR Representative
Job Fair System
AI Insights Module
Request student profiles
Retrieve profiles matching HR needs
Generate matching insights for profiles
Return matching scores
Display ranked student profiles with insights
HR Representative
Job Fair System
AI Insights Module