

22 TrailBlazers

Problem Statement - 'Event Execution & Post - Event Analytics'

PS Description - 'A centralized event management platform for end - to - end event execution with post - event analytics to measure performance and engagement'

Team Members :

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FUNCTIONAL REQUIREMENTS

Client / Organization

Allow the client to:

- Register on the platform
 - Request an event by submitting basic event details
 - Provide event requirements to the assigned event manager
 - View the final event performance report
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Administrator

Allow the admin to:

- Review event requests submitted by clients
 - Assign an event manager to a client's event
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Event Manager

Allow the event manager to:

- View client event requirements
- Create and manage the event agenda
- Configure engagement activities such as polls and Q&A
- Monitor event execution activities
- Analyze RSVP, attendance, and engagement data

- Evaluate success metrics such as attendance rate and engagement level
 - Generate and submit the event performance report to the client
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Attendee

Allow attendees to:

- RSVP for an event
 - Check in to the event
 - Participate in engagement activities such as polls, Q&A, and feedback
 - Exit the event with attendance recorded
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On-site Event Coordinator / Supervisor

Allow the on-site coordinator to:

- Verify attendee check-in
 - Manage entry, exit, and crowd flow
 - Report operational issues
 - Escalate reported issues to the event manager
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Analytics & Reporting

Allow the system to:

- Record RSVP counts for each event

- Record actual attendance based on check-in and check-out
 - Record participation data for engagement activities
 - Compare RSVP and actual attendance
 - Identify sessions with high and low attendee engagement
 - Store attendee feedback for post-event evaluation
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NON-FUNCTIONAL REQUIREMENTS

Usability

Ensure:

- Ease of use for non-technical users such as event managers and on-site coordinators
 - Clear navigation for different roles (client, event manager, attendee)
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Performance

Ensure:

- Support for multiple attendees interacting simultaneously during live sessions
 - Recording of check-in and participation data without noticeable delay
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Reliability

Ensure:

- No loss of attendance and engagement data during the event
 - Continuation of event execution activities even if analytics are reviewed later
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Security

Ensure:

- Role-based access control (client, admin, event manager, attendee)
 - Restricted access to event analytics for authorized event managers only
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Scalability

Ensure:

- Support for events of different sizes, from small webinars to large exhibitions
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Maintainability

Ensure:

- Updates to event details and agendas without impacting completed events
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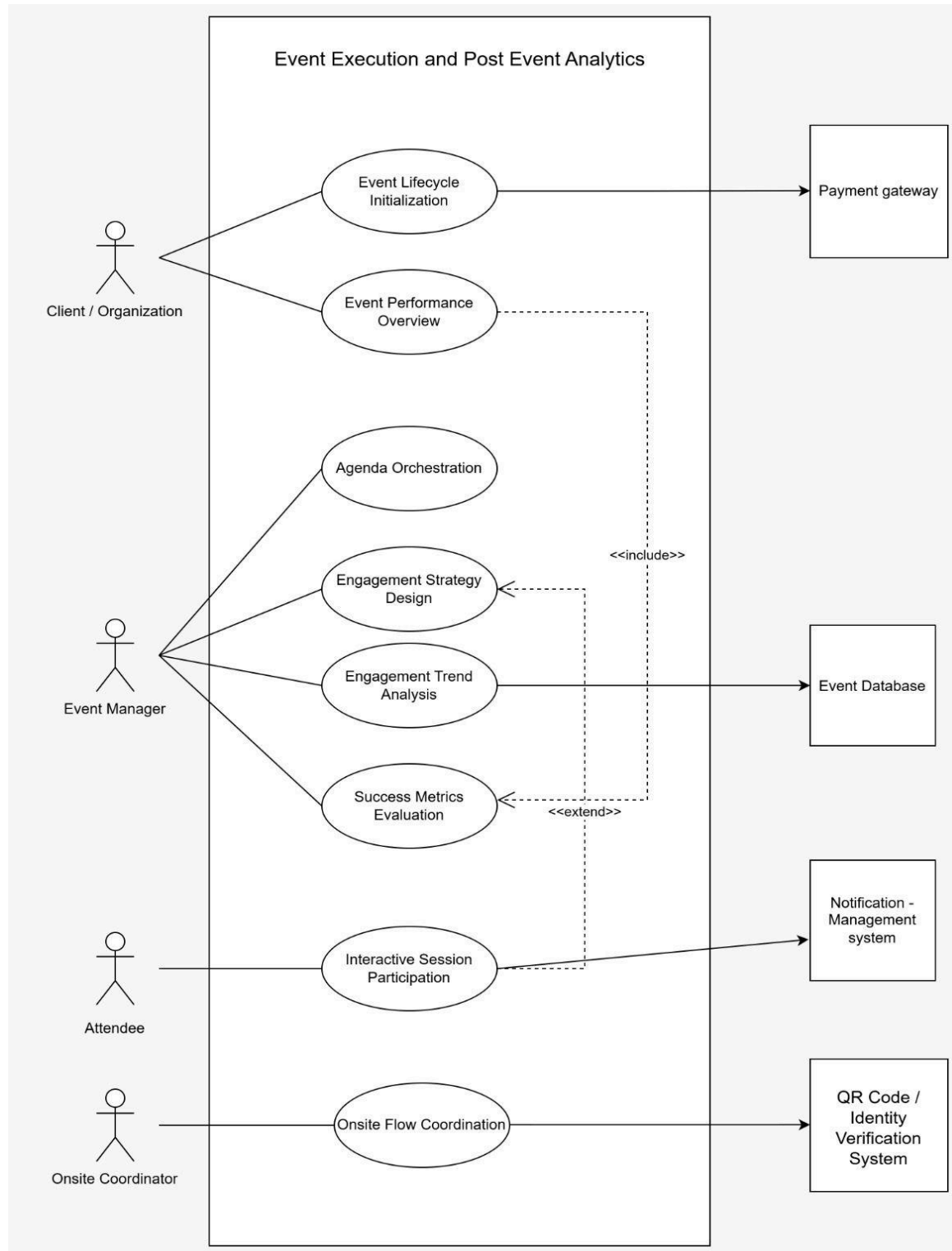
Constraints

Ensure:

- Analytics performed without automated or AI-based tools
- Reliance on manually interpreted participation and attendance data

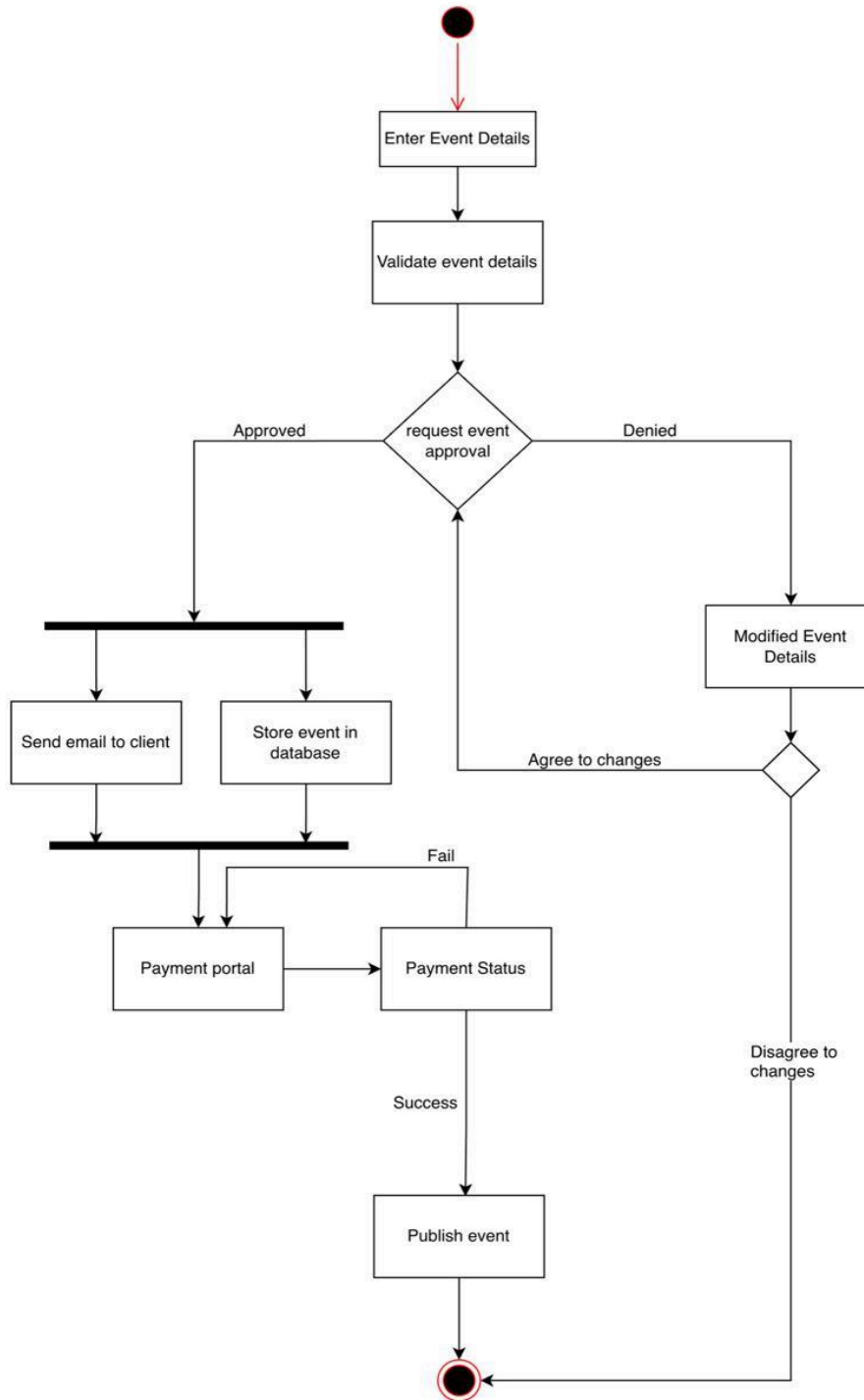
UML DIAGRAMS :

Use Case Diagram :

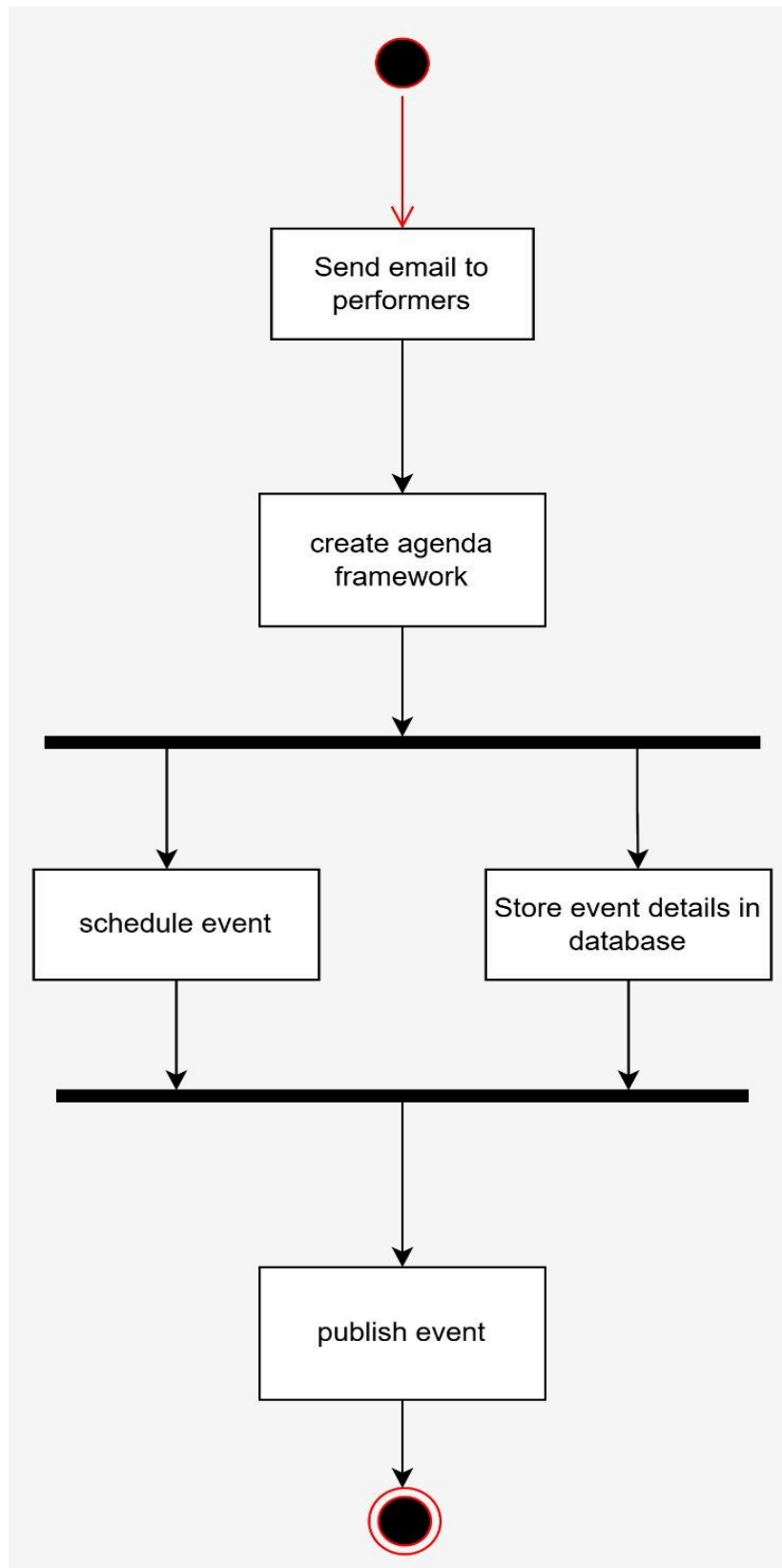


Activity diagrams :

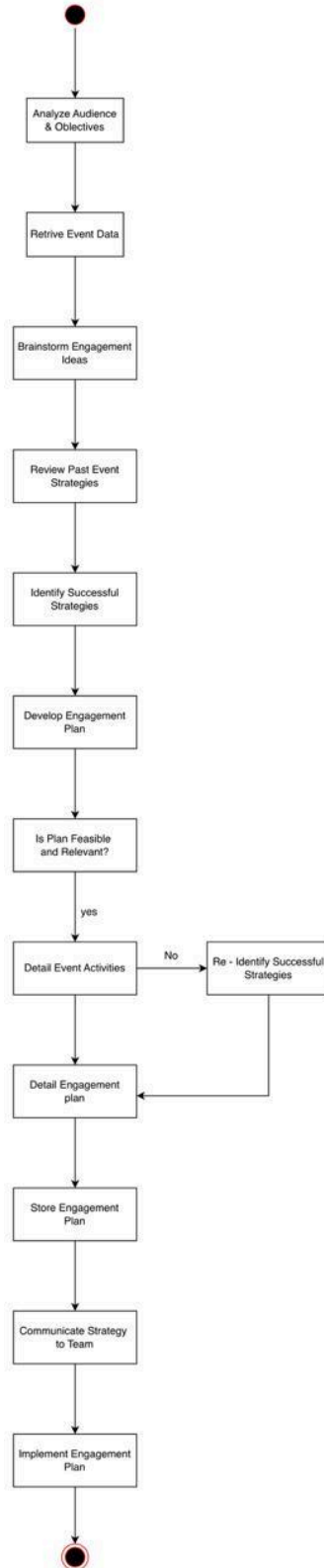
Client / Organization : Event Life Cycle Initialization :



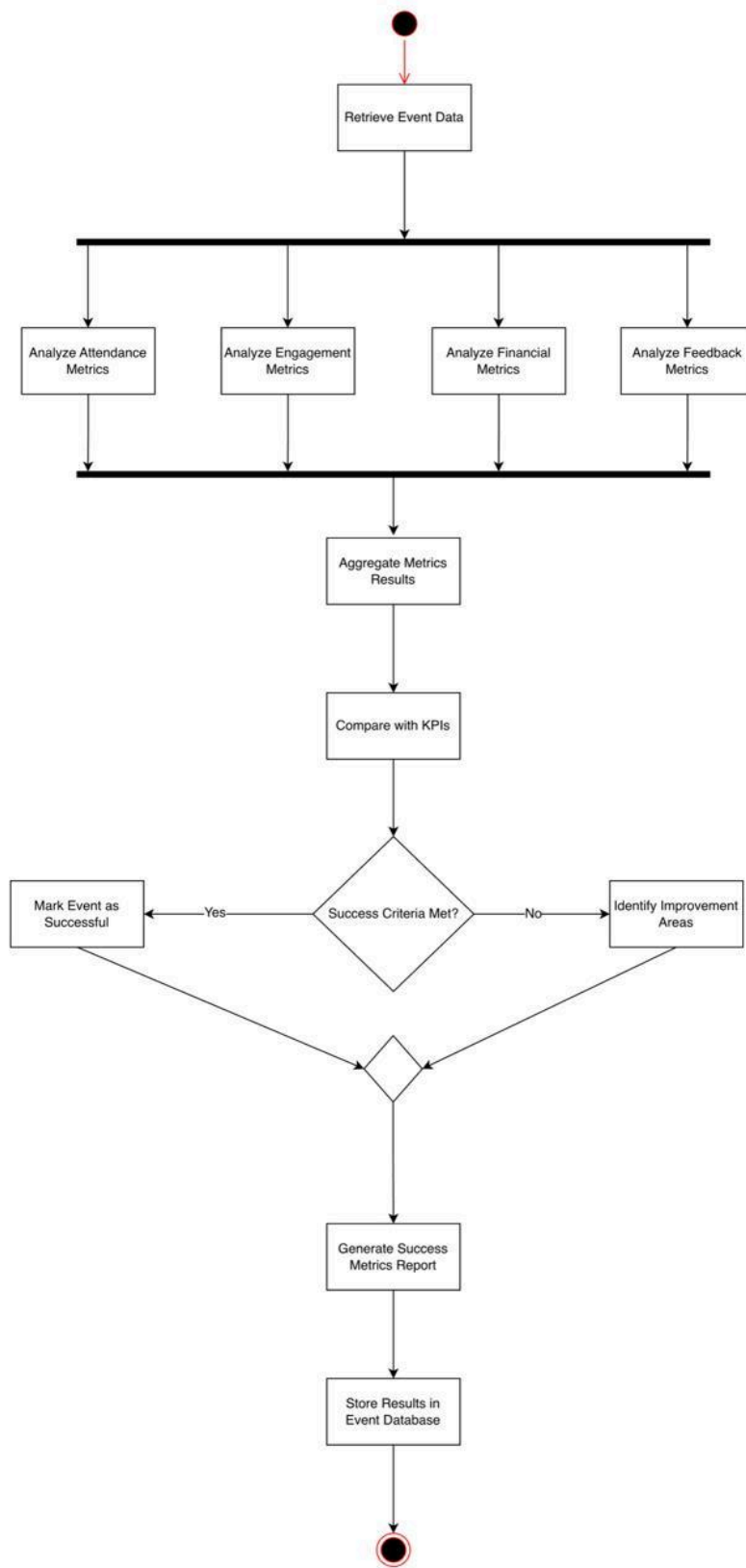
Event Manager : Agenda Orchestration :



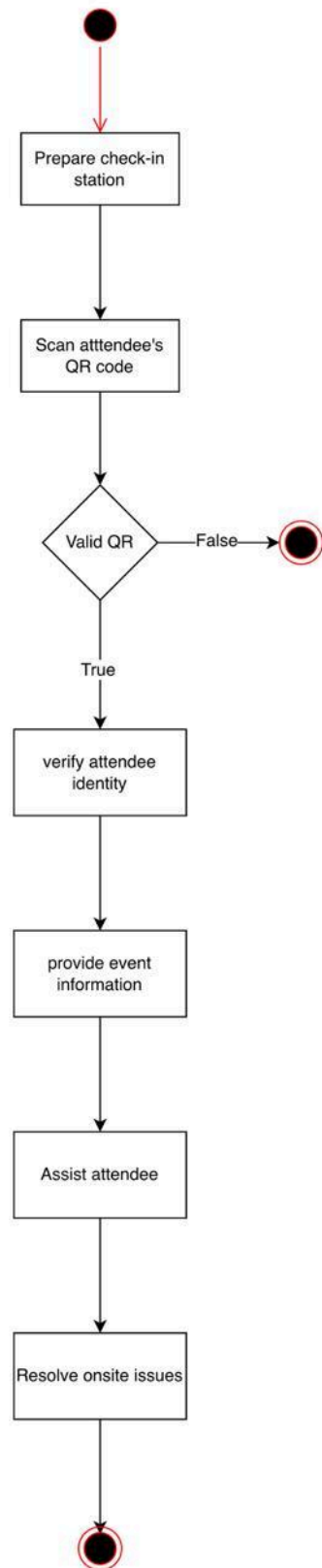
Engagement Strategy Design :



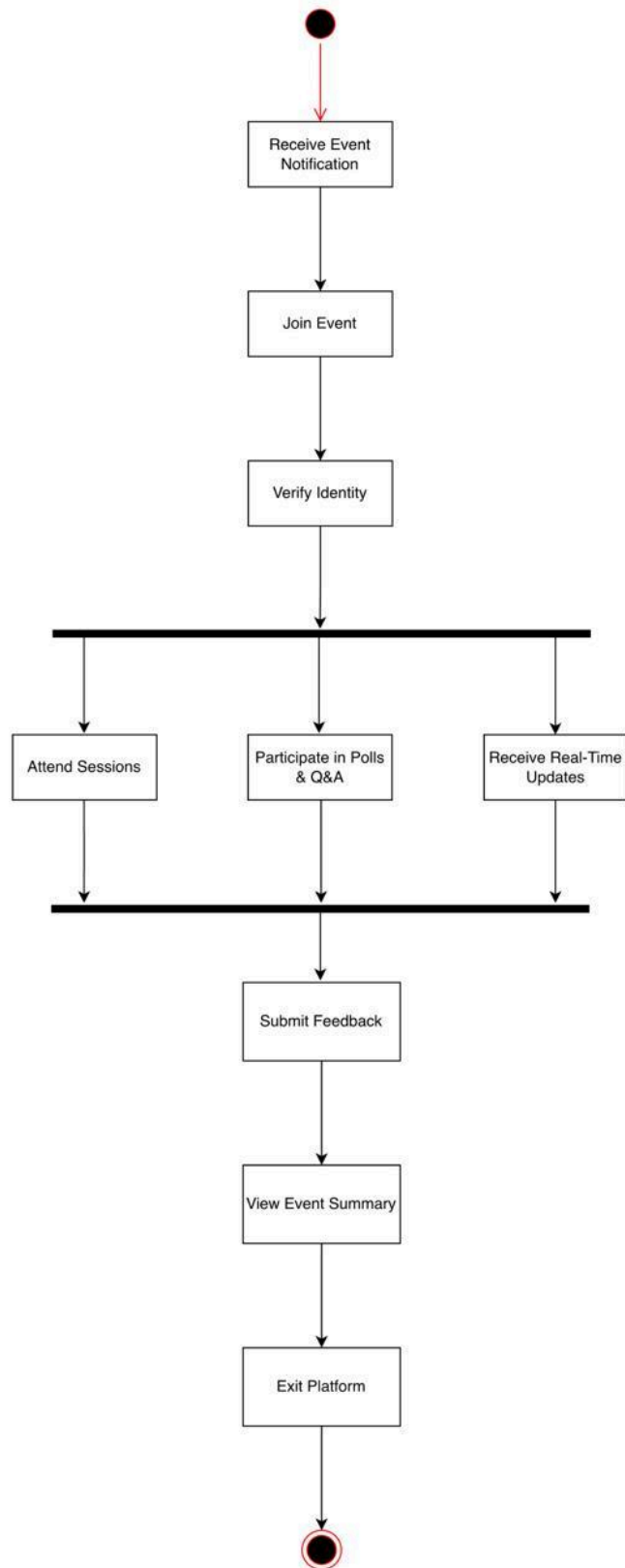
Success Metrics Evaluation:



On-site Coordinator : Onsite Flow Coordination :



Attendee : Interactive Session participation:



Sequence Diagram :

