



Smart Event: Centralized Event Coordination Platform

Only for course Teacher					
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Table of Content

1. Introduction.....	3
2. Objective.....	3
3. Key Features.....	3
4. Scenario Writing.....	6
Scenario 1: User Registration.....	6
Scenario 2: Login.....	6
Scenario 3: Submit Event Proposal.....	7
Scenario 4: Event Approval.....	7
Scenario 5: Venue and Resource Booking.....	7
Scenario 6: Document Upload.....	7
Scenario 7: Volunteer Registration.....	7
Scenario 8: Task Assignment and Progress Tracking.....	8
Scenario 9: Event Calendar Dashboard.....	8
Scenario 10: Live Event Status Tracking.....	8
Scenario 11: Notification System.....	8
Scenario 12: Feedback and Reporting.....	8
Scenario 13: Post-Event Media Gallery.....	9
Scenario 14: Admin Analytics Dashboard.....	9
5. Stakeholder.....	9
6. User Profile.....	10
User Profile-01: Organizer (Club).....	10
User Profile-02: Department Admin.....	11
User Profile-03: Logistics & Media.....	12
User Profile-04: Volunteer.....	13
7. Scope.....	15
8. Feasibility Study.....	18
9. SRS (Functional Requirements).....	21
10. SRS (Non-Functional Requirements).....	23
11. Use case Diagram.....	33
12. Use Case Description.....	34
Use Case 01: User Registration.....	34
Use Case 02: User Login.....	35
Use Case 03: Submit Event Proposal.....	36
Use Case 04: Review and Approve Proposal.....	38
Use Case 05: Book Venue & Resources.....	39
Use Case 06: Volunteer Registration and Assignment.....	40
Use Case 07: Task Assignment and Progress Tracking.....	41
Use Case 08: Event Calendar Dashboard.....	43
Use Case 09: Live Event Status Tracking.....	44
Use Case 10: Notification System.....	45
Use Case 11: Feedback Collection and Reporting.....	46

Use Case 12: Post-Event Media Gallery.....	48
Use Case 13: Admin Analytics Dashboard.....	49
13. Block Diagram.....	51
Block Diagram - 01: Organizer.....	51
Block Diagram - 02: Department Admin.....	52
Block Diagram - 03: Logistics & Media.....	53
Block Diagram - 04: Volunteer.....	54
14. Activity Diagram.....	55
Activity diagram - 01: Registration.....	55
Activity diagram - 02: LogIn.....	56
Activity Diagram - 03: Submit Event Proposal.....	57
Activity Diagram - 04: Review & Approve Proposal.....	58
Activity Diagram - 05: Book Venue & Resources.....	59
Activity Diagram - 06: Volunteer Registration & Assignment.....	60
Activity Diagram - 07: Task Coordination & Progress Tracking.....	61
Activity Diagram - 08: Feedback Collection & Reporting.....	62
Activity Diagram - 09: Make a Bill.....	63
Activity Diagram - 10: Pay Bill.....	64
Activity Diagram - 11: Logout.....	65
15. Data Flow Diagram.....	66
15.1 Data Flow Diagram Level - 0.....	66
15.2 Data Flow Diagram Level - 1.....	67
16. ER Diagram.....	68
17. Class Diagram.....	69
18. Sequence Diagram.....	70
Sequence Diagram - 01: Registration.....	70
Sequence Diagram - 02: Login.....	71
Sequence Diagram - 03: Submit Event Proposal.....	72
Sequence Diagram - 04: Review & Approve Proposal.....	73
Sequence Diagram - 05: Book Venue & Resources.....	74
Sequence Diagram - 06: Volunteer Registration & Assignment.....	75
Sequence Diagram - 07: Task Coordination & Progress Tracking.....	76
Sequence Diagram - 08: Feedback Collection & Reporting.....	77
Sequence Diagram - 09 : Make a Bill.....	78
Sequence Diagram - 10: Pay Bill.....	79
Sequence Diagram - 11: Logout.....	80
19. System Demo.....	81

Introduction:

In modern academic institutions, organizing and managing events is a complex and decentralized process. "Smart Event: Centralized Event Coordination Platform" is a digital solution designed to streamline the planning, coordination, and execution of university events. This web-based platform empowers students, faculty, and administrative personnel to collaboratively organize events in a seamless and structured way. By offering a centralized interface, the system enhances communication, scheduling, and resource allocation, ensuring that all stakeholders are informed and aligned at every stage of the event lifecycle.

Objective:

The primary objective of the Smart Event platform is to create an efficient and user-friendly system that centralizes event management processes. It allows users to propose events, reserve venues, assign resources, manage participants, and track event outcomes—all through an integrated interface. The platform also aims to enhance transparency, reduce scheduling conflicts, and foster a culture of student engagement and collaboration.

Key Features:

1. User Management

- User Registration**

Users (Organizer, department admin, Logistics & Media, Volunteer) can register by selecting a role, and the system provides dynamic access based on their selection.

- User Login**

Users can log in with email/password. Includes options for Forgot Password and Verify Password for secure access.

- User Roles and Permission Management**

Provides access control for different user types (Organizer, department admin, Logistics & Media, Volunteer) with tailored functionalities.

- **Accounts**

Manages user account details, profile settings, and credentials, including password resets and profile updates.

- **Logout:**

Users can securely log out from the system at any time, ending their current session and ensuring account safety.

2. Event Lifecycle Management

- **Event Proposal and Approval**

Student organizers submit detailed event proposals which are reviewed and approved by the department.

- **Live Event Status Tracking**

Tracks the real-time progress of events (e.g., Pending, Approved, Ongoing, Completed) for transparency and updates.

- **Feedback and Reporting**

Collects feedback from participants after events and generates reports for performance evaluation and future planning.

3. Resource and Logistics Management

- **Venue and Resource Booking**

Lets users request and reserve available university venues and resources based on event requirements.

- **Document Upload**

Allows organizers to upload supporting files such as budgets, permission letters, banners, and logistics documents.

- **Volunteer Registration and Assignment**

Enables students to register as volunteers and allows organizers to assign them specific roles and tasks.

4. Task Coordination and Collaboration

- Task Assignment and Progress Tracking**

Organizers can assign tasks to team members, set deadlines, and monitor completion status within the event dashboard.

- Event Calendar Dashboard**

Displays all upcoming, ongoing, and completed events in a calendar view, with filtering by date or category.

5. Communication and Admin Tools

- Notification System**

Sends real-time alerts for proposal updates, task reminders, event changes, and feedback requests via email or in-app.

- Post-Event Media Gallery**

Allows organizers or the media team to upload event photos and videos; content is reviewed and published by admins.

- Analytics Dashboard**

Provides graphical insights into platform activity including event counts, approvals, user engagement, and participation metrics.

Scenario Writing

Scenario 1: User Registration

- Request for registration
- The system asks to choose roles: Organizer, department admin, Logistics & Media, Volunteer.
- The user fills up the registration form with name, email, password, phone, and selected role.
- The user submits the form.
- The system validates the inputs.
- If valid → registration success message shown.

Scenario 2: User Login

- The user selects Login from the system.
- The system asks for email and password input.
- User may also choose:
 - Forgot Password → System verifies email and sends recovery steps.
 - Verify Password → User can view password while typing to confirm correctness.
- System checks credentials:
 - If correct, it checks the user's role.
 - If role = Organizer → Redirects to Organizer Dashboard
 - If role = department admin → Redirects to department admin Dashboard
 - If role = Logistics & Media → Redirects to Logistics & Media Dashboard
 - If role = Volunteer → Redirects to Volunteer Dashboard
 - If incorrect, the system shows an "Invalid credentials" message and asks to retry.

Scenario 3: Submit Event Proposal

- The student logs in and clicks "Propose Event".
- Fills in event name, description, date, category, and uploads budget document.
- Submits the proposal and sees the message "Proposal Submitted for Review".
- Receives notification once the faculty reviews the proposal.

Scenario 4: Event Approval

- Department admin logs in and accesses pending event proposals.
- Reviews event details and attached documents.
- Approves the event and optionally adds remarks.
- The organizer receives a confirmation notification.

Scenario 5: Venue and Resource Booking

- Organizer selects an approved event.
- Clicks "Book Venue", selects location and time slot.
- The system checks for conflicts and confirms the booking.
- Confirmation is displayed and sent via notification.

Scenario 6: Document Upload

- The organizer edits the approved event page.
- Clicks "Upload Document" and attaches sponsor letter and banner image.
- Files are saved and flagged for admin review.

Scenario 7: Volunteer Registration

- A student browses upcoming events and selects one to join.
- Clicks "Join as Volunteer" and chooses roles of interest.
- The organizer views the volunteer list and assigns them to event duties.

Scenario 8: Task Assignment and Progress Tracking

- The organizer clicks “Assign Tasks” from the event dashboard.
- Creates task entries (e.g., stage setup, refreshments) and assigns team members.
- Assignees receive notifications and update their progress status.

Scenario 9: Event Calendar Dashboard

- User clicks on “Event Calendar”.
- A monthly view displays all approved and live events with color codes.
- The user clicks an event to view full details or register.

Scenario 10: Live Event Status Tracking

- On the event day, the organizer marks the event status as “Ongoing”.
- Participants see a “Live Now” badge next to the event.
- After the event, status changes to “Completed”.

Scenario 11: Notification System

- System sends alert to organizer when:
 - Proposal is approved/rejected.
 - The venue is booked.
 - A task deadline is near.
 - Feedback is received.
- Notifications appear in the dashboard and/or via email.

Scenario 12: Feedback and Reporting

- After the event, the system sends a feedback form link to all registered participants.
- Users rate various aspects (e.g., content, organization).
- The organizer receives an automatic summary report with insights.

Scenario 13: Post-Event Media Gallery

- The organizer uploads event photos and videos.
- Admin reviews and approves the uploads.
- Media is displayed on the event's public page for participants to view.

Scenario 14: Admin Analytics Dashboard

- Admin logs in and clicks "Analytics".
- Dashboard shows charts: events per month, approval rates, top departments, volunteer count.
- Admin exports reports for documentation.

Stakeholders

1. **Club** – Submits proposals, assigns tasks, runs events.
2. **Department Admin** – Reviews and approves proposals. Full system access, analytics, user management.
3. **Logistics & Media** – Manages booking approval and schedule. Uploads post-event photos and videos.
4. **Volunteer** – Registers to help at events, receives assignments.

User Profile

User Profile-01: Organizer (Club)

User Class	Notes on Characteristic	Requirement Implied
Type of User	Organizer (Club)	Verification
Age Range	18–30	Verification
Frequency of Use	Most activity around event-cycles (2–4 times/month)	Performance, Operation, Acceptance
Mandatory	Yes	Performance, Operation
Computer Experience	Intermediate (web forms, basic reporting)	Documentation
Education	Undergraduate student	—
Goals	Propose and coordinate events efficiently; collaborate with peers	Resource, Performance, Acceptance
Language Skills	Bangla, English	Portability
Number of Users	~50–100	Performance, Operation, Acceptance
Training	Minimal, quick onboarding	Documentation
Other System Used	Google Forms, WhatsApp groups	Portability

Ways of Working	Hybrid online/offline teamwork; needs intuitive, low-friction UI	Operation, Maintenance, Safety
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User Profile-02: Department Admin

User Class	Notes on Characteristic	Requirement Implied
Type of User	Department Admin (Faculty/Staff)	Verification
Age Range	30–65	Verification
Frequency of Use	Daily to weekly (proposal reviews, resource checks)	Performance, Operation, Acceptance
Mandatory	Yes	Performance, Operation
Computer Experience	Intermediate to Expert (dashboard, analytics)	Documentation
Education	Master's/Bachelor's in relevant field	—
Goals	Review/approve proposals; optimize venue and resource utilization	Resource, Security, Acceptance
Language Skills	English, Bangla	Portability
Number of Users	~10–25	Performance, Operation, Acceptance

Training	Some formal training on approval workflows	Documentation
Other System Used	University MIS, calendar tools	Portability
Ways of Working	Structured review cycles; needs robust filtering/search and audit trails	Security, Operation, Maintenance

User Profile-03: Logistics & Media

User Class	Notes on Characteristic	Requirement Implied
Type of User	Logistics & Media Staff	Verification
Age Range	25–65	Verification
Frequency of Use	On-demand per event (resource booking, media uploads)	Performance, Operation, Acceptance
Mandatory	Yes	Performance, Operation
Computer Experience	Intermediate (booking systems, CMS)	Documentation
Education	Diploma/Bachelor's in media, logistics, or related	—

Goals	Coordinate venues/equipment; manage post-event media publication	Resource, Security, Acceptance
Language Skills	English, Bangla	Portability
Number of Users	~5–10	Performance, Operation, Acceptance
Training	Moderate training on booking conflict checks and gallery workflows	Documentation
Other System Used	Excel, SharePoint/CMS	Portability
Ways of Working	Event-driven shifts; needs bulk-upload and moderation interfaces	Operation, Maintenance

User Profile-04: Volunteer

User Class	Notes on Characteristic	Requirement Implied
Type of User	Volunteer (Student Helpers)	Verification
Age Range	18–25	Verification
Frequency of Use	Ad hoc, around specific events	Performance, Operation, Acceptance
Mandatory	No	Performance
Computer Experience	Basic (mobile/app usage)	Documentation

Education	Undergraduate	—
Goals	Assist with tasks (setup, registration, support)	Resource, Performance, Acceptance
Language Skills	Bangla, English	Portability
Number of Users	~100–300	Performance, Operation, Acceptance
Training	Short orientation sessions	Documentation
Other System Used	Social media event pages	Portability
Ways of Working	Flexible, self-directed; needs clear task lists and reminders	Operation, Maintenance

Scope

1. User Registration and Login:

a. Objective: Allow all users to securely register and authenticate with role-based access.

b. Functionality:

- Collect required registration details (name, email, role selection).
- Enforce secure authentication (password hashing, session management).
- Provide password-reset and email-verification flows.

2. User Profile and Accounts Management:

a. Objective: Enable users to create, view, and update their personal and account settings.

b. Functionality:

- CRUD operations on profile data (contact info, profile picture).
- Password change, two-factor setup, and preference settings.
- Audit trail of profile updates for admins.

3. Event Proposal and Approval Workflow:

a. Objective: Let organizers submit event plans and enable departments to review and approve.

b. Functionality:

- Guided proposal form (title, description, date, category, attachments).
- Dashboard for department admins with filtering/search of pending proposals.
- Approve/reject actions with optional comments and notification triggers.

4. Venue and Resource Booking:

a. Objective: Facilitate reservation of university venues and resources without conflicts.

b. Functionality:

- Calendar-based booking interface showing availability.
- Automatic conflict detection and suggested alternative slots.
- Booking confirmation and modification flows.

5. Task Coordination and Progress Tracking:

a. Objective: Support organizers in assigning and monitoring event-related tasks.

b. Functionality:

- Create tasks with descriptions, assignees, and deadlines.
- Kanban-style or list view of ongoing tasks with status updates.
- Automated reminders for upcoming or overdue tasks.

6. Volunteer Registration and Assignment:

a. Objective: Allow students to sign up as volunteers and organizers to allocate roles.

b. Functionality:

- Volunteer signup form tied to approved events.
- Organizer view of volunteer roster with role-assignment tools.
- Notifications for volunteers about assignments and schedule changes.

7. Document and Media Handling:

a. Objective: Manage event-related files and post-event galleries in a structured way.

b. Functionality:

- Upload budgets, permission letters, banners with version control.
- Admin approval queue for photos/videos before public gallery publication.
- Bulk-upload support and metadata tagging.

8. Notifications and Alerts:

a. Objective: Keep stakeholders informed of key actions and deadlines.

b. Functionality:

- In-app and email notifications for proposal status, bookings, tasks, and feedback.
- User-configurable notification preferences and digest schedules.

9. Analytics and Reporting:

a. Objective: Provide insights into platform usage, event performance, and resource utilization.

b. Functionality:

- Dashboards for admins showing event counts, approval rates, volunteer engagement.

Exportable reports (CSV/PDF) for month-end summaries and trend analysis.

Feasibility Study

The “Smart Event” platform aims to centralize and streamline university event coordination. This feasibility study assesses its viability by examining technical, operational, economic, scheduling, and security/privacy aspects.

1. Technical Feasibility

a. Hardware Compatibility:

- The platform will run on the university's existing server infrastructure (Linux-based web server, 8 GB RAM, 4-core CPU) or cloud VM instances.
- Client-side requirements are minimal: any modern desktop or mobile browser (Chrome, Firefox, Safari) .

b. Software Compatibility:

- Integrates with the campus Single Sign-On (SSO) service via OAuth2 and the institutional calendar (e.g., Google Calendar API).
- Backend built on Node.js/Django (your choice) with PostgreSQL—both widely supported and maintainable.

c. Technical Expertise:

- Your development team (5 members) has proficiency in JavaScript/TypeScript and basic SQL—sufficient to implement and maintain the stack.
- A short training session (2–3 days) on the chosen framework and deployment pipeline (Docker/Kubernetes basics) will bridge any gaps.

2. Operational Feasibility

a. User Acceptance:

- Conducted preliminary interviews with student organizers, faculty admins, and volunteer coordinators; all expressed strong interest in a unified system over existing email/WhatsApp workflows.
- A pilot group of 10 events will validate ease of use and gather feedback before campus-wide rollout.

b. Impact on Current Operations:

- Replaces fragmented booking spreadsheets and manual feedback collection.
- Departments will need to adapt to an electronic approval queue; change management includes one-week onboarding and an FAQ helpline.

3. Economic Feasibility

a. Cost-Benefit Analysis:

- Conduct a thorough analysis of the costs associated with developing, implementing, and maintaining the SmartEvent against the expected benefits such as increased efficiency, improved customer satisfaction, and potential revenue growth.

b. Return on Investment (ROI):

- Payback expected within 6 months post-launch, through operational efficiency gains and reduced manual workload.

4. Scheduling Feasibility

a. Project Timeline:

- Develop a realistic timeline for the different phases of the SmartEvent implementation, taking into account potential delays, testing periods, and staff training.

b. Dependencies:

- Coordination with IT for SSO/calendar API credentials
- Availability of pilot users for feedback sessions
- Timely SSL certificate issuance

5. Legal and Regulatory Feasibility

- **Data Privacy Compliance:** Adheres to university data-retention policies; collects only necessary personal data (name, email, role).

- **Intellectual Property:** Developed under university capstone guidelines; code licensed per institutional policy with no third-party proprietary plugins.

6. Risk and Resource Feasibility

- **Key Risks:** Potential delays in API credential acquisition; variation in user engagement during pilot; hosting downtime.

- **Mitigation Strategies:** Parallel setup of dev/test environments; scheduled pilot communications; leveraging cloud provider SLAs; regular backup routines.

The feasibility analysis demonstrates that SmartEvent is well-aligned with the university's existing infrastructure and user needs, making it technically and operationally sound. Economically, the project offers significant efficiency gains and a rapid return on investment, while the proposed timeline fits comfortably within a single semester. Legal and regulatory considerations are addressed through data-privacy compliance and clear intellectual property guidelines, and identified risks have robust mitigation plans. Overall, SmartEvent is a viable capstone project with strong prospects for successful deployment and adoption.

Software Requirement Specification:

The complete requirement specification based on our elicitation for SmartEvent.

Functional Requirements:

ID	Requirement	Description	Stakeholders
FR-01	User Registration & Authentication	The system shall allow users to register with name, email, password, and role-selection; provide login, logout, password-reset, and email verification.	All Users
FR-02	User Profile & Account Management	Users shall be able to view and update their profile details (contact info, profile picture, preferences) and change the password.	All Users
FR-03	Role-Based Access Control	The system shall enforce permissions so Organizers, Department Admins, Logistics & Media, and Volunteers see only their authorized features.	All Users
FR-04	Event Proposal Submission	Organizers shall be able to create event proposals with title, description, date/time, category, and attachments (budget, permissions).	Organizers
FR-05	Proposal Review & Approval	Department Admins shall have a dashboard to filter/search pending proposals, review details, approve or reject with comments, and notify organizers.	Department Admins

FR-06	Venue & Resource Booking	Organizers shall reserve venues or resources via a calendar UI; system must detect conflicts and suggest alternate slots.	Organizers, Logistics & Media
FR-07	Task Coordination & Tracking	Organizers shall create tasks (description, assignee, deadline), view progress (Kanban or list), and receive automated reminders.	Organizers, Volunteers
FR-08	Volunteer Registration & Assignment	Volunteers shall browse approved events, sign up for roles; Organizers shall assign volunteers and notify of their duties.	Volunteers, Organizers
FR-09	Document & Media Management	Organizers shall upload event-related files; Logistics & Media shall approve photos/videos for the public gallery; support versioning and metadata tagging.	Organizers, Logistics & Media
FR-10	Real-Time Notifications	The system shall send in-app and email alerts for proposal status changes, bookings, task deadlines, and feedback requests.	All Users
FR-11	Feedback Collection & Reporting	After event completion, system shall send feedback forms, collect responses, and generate summary reports for Organizers and Admins.	Organizers, Department Admins
FR-12	Analytics & Dashboard	Department Admins shall view dashboards with metrics event counts, approval rates, volunteer	Department Admins

engagement) and export CSV/PDF reports.

Performance Requirements:

A requirement specifying performance characteristics the system must possess.

1. Speed and Latency Requirements:

ID	Requirement	Description	Stakeholders
PR-01	Page Load Time	Landing and dashboard pages shall render within 2 seconds under normal load conditions.	All Users
PR-02	Interactive Response	Calendar and Kanban views shall update within 3 seconds when filtering or moving items.	Organizers, Admins

2. Precision and Accuracy Requirements

- There are no special precision or accuracy requirements beyond correct data display and calculations of counts/statistics.

3. Capacity Requirements:

ID	Requirement	Description	Stakeholders
PR-03	Concurrent Users	The system shall support at least 200 concurrent active users without degradation.	All Users
PR-04	Data Storage	Initially support storage of up to 10,000 events, 100,000 tasks, and 200,000 user records, with room to grow via scalable database design.	All Users

Dependability Requirements

The platform must ensure continuous, correct operation under expected and fault conditions, refocusing available resources on critical services rather than over-provisioning for a failure-proof system.

1. Reliability and Availability

ID	Requirement	Description	Stakeholders
DR-01	The system shall achieve 99.5% uptime	Platform operational 24x7, excluding scheduled maintenance (≤ 2 hours/month). - Users receive 24 hour advance notice of planned downtime. - Automated health checks and recovery mechanisms detect and recover from interruptions.	All Users, Department Admins

2. Robustness and Fault Tolerance Requirements

ID	Requirement	Description	Stakeholders
DR-02	The system shall gracefully handle external service failures	Queue outbound requests (e.g., SendGrid API, email/SMS) during stages and retry without data loss. - On internal errors (e.g., timeouts), perform automated failover or fallback procedures and log incidents for later analysis.	Organizers, Volunteers, Logistics & Media, Department Admins

3. Usability Requirements:

ID	Requirement	Description	Stakeholders
UR-01	Learnability	New users (Organizer/Volunteer) shall be able to complete first-time onboarding and create a proposal or volunteer registration within 10 minutes without instructor help.	All Users
UR-02	User Interface Responsiveness	UI interactions (form submits, dialog opens) shall respond within 300 ms for local actions; full page transitions within 2 s under normal load.	All Users

UR-03	Help & Documentation	Contextual help tooltips must be available on all major forms; an online user guide and FAQ shall be accessible from the dashboard.	All Users, Admin
UR-04	Error Feedback	Validation errors shall clearly indicate the field and corrective action; system error messages must give a friendly message and an error code for support.	All Users, Support

4. Maintainability Requirements:

ID	Requirement	Description	Stakeholders
MR-01	Modular Codebase	Code shall follow modular architecture (separation of concerns: API, UI, Data access); each module must have a single responsibility.	Dev Team, Maintainers
MR-02	Test Coverage	Automated tests (unit + integration) shall cover ≥ 70% of backend critical paths	Dev Team, QA

		and \geq 50% of frontend critical flows before release.	
MR-03	Code Quality	Static analysis checks (linter) must run in CI; merge blocked if critical issues found.	Dev Team
MR-04	Documentation	Developer README, API docs (OpenAPI/Swagger), and database schema docs must be maintained and updated with each release.	Dev Team, Maintainers

5. Portability & Compatibility Requirements:

ID	Requirement	Description	Stakeholders
PCR-01	Browser Support	The web UI shall support latest two major versions of Chrome, Firefox, Edge, and Safari, and be functional on mobile browsers.	All Users
PCR-02	Deploy Targets	Application shall be deployable to Linux-based servers and major cloud providers (AWS, GCP,	Ops, Dev Team

		Azure) using container images (Docker).	
PCR-03	Data Export	Admins shall be able to export reports in CSV or PDF so data can be reused in other systems.	Admins

6. Scalability & Capacity Requirements:

ID	Requirement	Description	Stakeholders
SCR-01	Concurrent Users	The system shall support 200 concurrent active users with acceptable performance (95th-percentile page load ≤ 2s).	All Users, Admin

SCR-02	Horizontal Scaling	Services must be designed to scale horizontally (stateless app servers, separate stateful DB) and support adding instances behind a load balancer.	Dev Team, Ops
SCR-03	Data Growth	DB schema and storage shall support growth to 100k events and 1M users/records via partitioning and archiving strategy.	Admin, Dev Team

7. Backup, Recovery & Disaster Recovery:

ID	Requirement	Description	Stakeholders
BDR-01	Backups	Production database backups shall be taken daily and retained for 30 days.	Ops, Admin
BDR-02	Recovery Time Objective (RTO)	In case of major outage, system shall be restorable to working state within 4 hours (RTO).	Ops, Admin
BDR-03	Recovery Point Objective (RPO)	Data loss tolerated shall not exceed 1 hour (RPO) of	Ops, Admin

		incoming transactions.	
BDR-04	Backup Verification	Backups must be automatically verified weekly via test restore of a sample dataset.	Ops

8. Logging, Monitoring & Auditability:

ID	Requirement	Description	Stakeholders
LMA-01	Centralized Logging	All services shall send logs to a centralized logging system (e.g., ELK, Stackdriver) retaining logs for 90 days.	Ops, Dev Team, Security
LMA-02	Metrics & Alerts	Key metrics (response time, error rates, CPU/memory, queue lengths) must be monitored with alerts for threshold breaches (e.g., 5xx rate > 1%).	Ops
LMA-03	Audit Trail	All critical actions (proposal approval/rejection, user role changes, booking changes) must be recorded in	Admin, Security

		an immutable audit log with timestamp and actor ID.	
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9. Accessibility & Internationalization:

ID	Requirement	Description	Stakeholders
AI-01	Accessibility	UI must meet WCAG 2.1 AA guidelines for color contrast, keyboard navigation, and screen-reader compatibility for primary flows.	All Users
AI-02	Language Support	The system shall support Bangla and English for UI labels and notifications; text resources must be externalized for i18n.	All Users

10. Reliability & Availability:

ID	Requirement	Description	Stakeholders
RAV-01	Availability SLA	System shall aim for 99.5% uptime per month (excluding scheduled maintenance).	All Users, Admin

RAV-02	Health Checks & Failover	Application shall expose health endpoints for orchestration; automated restarts or reroutes shall be configured in case of instance failure.	Ops
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11. Maintainability Operational Targets:

ID	Requirement	Description	Stakeholders
MOT-01	Release Cadence	Minor releases (bug fixes) may be deployed weekly; feature releases every 4–6 weeks with release notes.	Dev Team, Admin
MOT-02	Rollback Plan	Every production release must include a rollback plan enabling reversion to prior release within 30 minutes.	Dev Team, Ops

3. Safety Critical Requirements:

There are no safety-critical requirements for SmartEvent, as the system does not perform any life-safety or physical-control functions.

Use Case Diagram: Smart Event



Use Case Description

Use Case 01: User Registration

Use Case	User Registration
Goal	Users can register to access the Smart Event platform with role-based permissions
Preconditions	<ul style="list-style-type: none">- User has valid university email address- User has internet access- Registration page is accessible
Success End Condition	Notification: “ !!!Successfully Registered!!! ”
Failed End Condition	Notification: “ Submission Not Submitted ”
Primary Actors	New User (Club, Admin, Volunteer, Logistics & Media)
Secondary Actors	—
Trigger	User clicks "Register" on the landing page
Main Success Scenario	<ol style="list-style-type: none">1. User accesses registration page2. User enters required details (name, email, password)3. User selects role (Student Organizer, Department Admin, Logistics & Media, Volunteer)4. System validates input data5. System sends verification email6. User receives confirmation email and clicks verification link7. System activates account and displays success message

Alternative Flows	<p>3.1 Invalid Email Format - System displays error message, return to step 3</p> <p>3.2 Email Already Registered - System displays "Email already exists" error, redirect to login page</p> <p>3.3 Weak Password - System displays password requirements, return to step 3</p> <p>6.1 Verification Link Expired - System prompts to resend verification email, return to step 5</p>
Quality Requirements	User registration process must complete within 2 minutes

Use Case 02: User Login

Use Case	User Login
Goal	Authenticated users can securely access the platform with appropriate role-based dashboard
Preconditions	User has registered account, account is activated, no active session exists
Success End Condition	User successfully logged in and redirected to role-specific dashboard
Failed End Condition	Login failed with error message displayed
Primary Actors	Registered User (All User Types)
Secondary Actors	Admin

Trigger	User clicks "Login" on the landing page
Main Success Scenario	<ol style="list-style-type: none"> 1. User accesses login page 2. User enters email and password 3. System validates credentials 4. System creates user session 5. System determines user role and permissions 6. System redirects to role-specific dashboard
Alternative Flows	<p>3.1 Invalid Credentials - System displays "Invalid email or password" error, return to step 2</p> <p>3.2 Account Not Activated - System displays "Please verify your email" message with resend option</p> <p>3.3 Account Locked - System displays account status message with administrator contact instructions</p> <p>2.1 Forgot Password - User clicks "Forgot Password" link, system sends reset email</p>
Quality Requirements	Login process must complete within 10 seconds with session timeout after 2 hours of inactivity

Use Case 03: Submit Event Proposal

Use Case	Submit Event Proposal
Goal	Organizers can submit detailed event proposals for department review and approval
Preconditions	Organizer is logged in and has completed profile setup
Success End Condition	Proposal successfully submitted with confirmation message

Failed End Condition	Proposal submission failed due to validation errors or system issues
Primary Actors	Organizer (Club/Student Organization)
Secondary Actors	Admin
Trigger	Organizer clicks "Propose Event" on the dashboard
Main Success Scenario	<ol style="list-style-type: none"> 1. System presents guided proposal form with required fields 2. Organizer enters event details (title, description, date, category) 3. Organizer uploads supporting documents (budget, permissions) 4. Organizer submits completed form 5. System validates all required information 6. System creates proposal record with "Pending" status 7. System displays "Proposal Submitted for Review" confirmation 8. System sends notification to Department Admin
Alternative Flows	<p>2.1 Missing Required Field - System highlights errors and returns to step 2</p> <p>3.1 File Upload Fails - System displays error message and allows retry</p> <p>5.1 Validation Errors - System displays specific error messages and returns to appropriate step</p> <p>6.1 System Error - System displays error message and saves draft for later completion</p>
Quality Requirements	Proposal submission must complete within 30 seconds with support for files up to 10MB

Use Case 04: Review and Approve Proposal

Use Case	Review and Approve Proposal
Goal	Department Admins can review submitted proposals and make approval decisions
Preconditions	Admin is logged in and at least one pending proposal exists
Success End Condition	Proposal status updated and organizer notified of decision
Failed End Condition	Review process failed or decision not saved
Primary Actors	Department Admin
Secondary Actors	Organizer
Trigger	Admin navigates to "Pending Proposals" dashboard
Main Success Scenario	<ol style="list-style-type: none"> 1. System displays list of pending proposals with filtering options 2. Admin selects a proposal to review 3. System displays detailed proposal information and attachments 4. Admin reviews all submitted materials 5. Admin makes approval decision (Approve/Reject) 6. Admin optionally adds comments or remarks 7. System updates proposal status 8. System sends notification to organizer with decision
Alternative Flows	4.1 Admin Requests Additional Documents - System sends request to organizer and maintains "Pending" status

	<p>5.1 Admin Rejects Proposal - System captures rejection comments and notifies organizer</p> <p>6.1 System Error During Update - System maintains original status and logs error for review</p>
Quality Requirements	Review dashboard must load within 3 seconds and support filtering of up to 100 proposals

Use Case 05: Book Venue & Resources

Use Case	Book Venue and Resources
Goal	Organizers can reserve university venues and resources for approved events
Preconditions	Event proposal is approved and user is logged in
Success End Condition	Venue and resources successfully booked with confirmation
Failed End Condition	Booking failed due to conflicts or system errors
Primary Actors	Organizer, Logistics & Media
Secondary Actors	Volunteers
Trigger	Organizer clicks "Book Venue" on approved event page
Main Success Scenario	<ol style="list-style-type: none"> 1. System displays calendar view with available venues and time slots 2. Organizer selects desired venue and time slot

	<p>3. System checks for scheduling conflicts</p> <p>4. System confirms availability and processes booking</p> <p>5. System displays booking confirmation</p> <p>6. System sends confirmation notification to organizer and logistics team</p>
Alternative Flows	<p>2.1 Selected Slot Unavailable - System suggests alternative available slots and returns to step 2</p> <p>3.1 Conflict Detected - System displays conflict information and suggests alternatives</p> <p>4.1 Booking System Error - System rolls back transaction and notifies user to retry</p>
Quality Requirements	Venue availability must be updated in real-time with booking confirmation within 5 seconds

Use Case 06: Volunteer Registration and Assignment

Use Case	Volunteer Registration and Assignment
Goal	Students can register as volunteers for events and organizers can assign specific roles
Preconditions	Event is approved and listed, volunteer has user account
Success End Condition	Volunteer successfully registered and assigned to event roles
Failed End Condition	Registration failed or role assignment unsuccessful
Primary Actors	Volunteer, Organizer

Secondary Actors	Logistics & Media
Trigger	Volunteer clicks "Join as Volunteer" on event details page
Main Success Scenario	<ol style="list-style-type: none"> 1. System displays volunteer signup form for selected event 2. Volunteer selects roles of interest from available options 3. Volunteer submits registration form 4. System adds volunteer to event roster 5. Organizer reviews volunteer applications 6. Organizer assigns specific tasks and roles to volunteers 7. System sends assignment notifications to volunteers
Alternative Flows	<p>2.1 Role Capacity Reached - System informs volunteer to choose alternative roles or events</p> <p>5.1 Organizer Defers Assignment - System keeps volunteer in "Applicant" status</p> <p>6.1 Assignment Conflicts - System alerts organizer and suggests resolution</p>
Quality Requirements	Volunteer registration must process within 15 seconds with immediate roster updates

Use Case 07: Task Assignment and Progress Tracking

Use Case	Task Assignment and Progress Tracking
Goal	Organizers can assign tasks to team members and monitor completion progress
Preconditions	Event is approved and team members are identified

Success End Condition	Tasks successfully assigned with progress tracking active
Failed End Condition	Task assignment failed or tracking not initiated
Primary Actors	Organizer
Secondary Actors	Volunteers
Trigger	Organizer clicks "Assign Tasks" from event dashboard
Main Success Scenario	<ol style="list-style-type: none"> 1. System displays task creation interface 2. Organizer creates task entries with descriptions and deadlines 3. Organizer assigns tasks to specific team members 4. System sends task notifications to assignees 5. Assignees update task progress status 6. System displays progress in Kanban or list view 7. System sends automated reminders for approaching deadlines
Alternative Flows	<p>3.1 Assignee Unavailable - System allows reassignment to alternative team member</p> <p>5.1 No Progress Update - System sends reminder notifications</p> <p>6.1 Task Deadline Missed - System flags overdue tasks and notifies organizer</p>
Quality Requirements	Task updates must be reflected in real-time with reminder notifications sent 24 hours before deadlines

Use Case 08: Event Calendar Dashboard

Use Case	Event Calendar Dashboard
Goal	Users can view all events in calendar format with filtering and detail access
Preconditions	User is logged in and has appropriate permissions
Success End Condition	Calendar displays current events with successful navigation
Failed End Condition	Calendar fails to load or display accurate information
Primary Actors	All Users
Secondary Actors	—
Trigger	User clicks "Event Calendar" in navigation menu
Main Success Scenario	<ol style="list-style-type: none"> 1. System displays monthly calendar view 2. The system shows all approved and live events with color coding 3. User can filter events by date, category, or department 4. User clicks on specific event to view details 5. System displays comprehensive event information 6. User can register for events or access relevant actions based on role
Alternative Flows	<p>2.1 No Events Found - System displays message indicating no events for selected period</p> <p>4.1 Event Details Unavailable - System displays basic information with note about limited details</p>

	5.1 Registration Full - System displays waitlist option or alternative events
Quality Requirements	Calendar must load within 2 seconds and support display of up to 50 events per month

Use Case 09: Live Event Status Tracking

Use Case	Live Event Status Tracking
Goal	Real-time tracking of event status from planning to completion
Preconditions	Event is approved and scheduled
Success End Condition	Event status accurately reflects current state with appropriate notifications
Failed End Condition	Status update failed or incorrect information displayed
Primary Actors	Organizer, Participants
Secondary Actors	Department admin
Trigger	Event day arrives or organizer manually updates status
Main Success Scenario	<ol style="list-style-type: none"> 1. On event day, organizer updates status to "Ongoing" 2. System displays "Live Now" badge for participants 3. System sends real-time updates to registered participants 4. During event, status can be updated with progress information 5. After event completion, organizer marks status as

	<p style="text-align: right;">"Completed"</p> <p>6. System archives event and triggers post-event processes</p>
Alternative Flows	<p>1.1 Event Delayed - Organizer can update with delay information and new timeline</p> <p>4.1 Event Cancelled - System notifies all participants and updates records</p> <p>5.1 Incomplete Event Data - System prompts for required completion information</p>
Quality Requirements	Status updates must propagate to all users within 30 seconds of change

Use Case 10: Notification System

Use Case	Notification System
Goal	Keep all stakeholders informed of important updates and deadlines
Preconditions	Users have notification preferences configured
Success End Condition	Notifications successfully delivered through preferred channels
Failed End Condition	Notification delivery failed or delayed
Primary Actors	System (Automated)
Secondary Actors	All User Types, Email System

Trigger	System events such as proposal updates, bookings, deadlines, or feedback requests
Main Success Scenario	<ol style="list-style-type: none"> 1. System detects trigger event requiring notification 2. System identifies relevant users based on event type and roles 3. System composes appropriate notification message 4. System delivers notification via configured channels (in-app, email) 5. System logs notification delivery for audit purposes 6. Users receive and can act upon notifications
Alternative Flows	<p>4.1 Email Delivery Failed - System retries delivery and logs failure</p> <p>4.2 User Preferences Block Notification - System respects settings but maintains critical alerts</p> <p>6.1 User Cannot Act on Notification - System provides alternative contact information</p>
Quality Requirements	Critical notifications must be delivered within 2 minutes with 99% delivery success rate

Use Case 11: Feedback Collection and Reporting

Use Case	Feedback Collection and Reporting
Goal	Collect participant feedback after events and generate comprehensive reports
Preconditions	Event is completed and participant list exists

Success End Condition	Feedback collected and summary report generated for organizers
Failed End Condition	Feedback collection failed or report generation unsuccessful
Primary Actors	Participants
Secondary Actors	Organizer, Department Admin
Trigger	Event status changes to "Completed"
Main Success Scenario	<ol style="list-style-type: none"> 1. System automatically sends feedback form links to all registered participants 2. Participants complete feedback forms rating various aspects 3. System collects and validates feedback responses 4. System generates automated summary report with insights 5. System delivers report to organizer and department admin 6. Reports are archived for future reference and trend analysis
Alternative Flows	<ol style="list-style-type: none"> 2.1 Low Response Rate - System sends reminder notifications to increase participation 3.1 Invalid Feedback Data - System validates responses and requests clarification 4.1 Report Generation Error - System logs error and provides raw data export
Quality Requirements	Feedback forms must be sent within 2 hours of event completion with reports generated within 24 hours

Use Case 12: Post-Event Media Gallery

Use Case	Post-Event Media Gallery
Goal	Manage and display event photos and videos in organized gallery format
Preconditions	Event is completed and media content is available
Success End Condition	Media successfully uploaded, reviewed, and published in public gallery
Failed End Condition	Media upload failed or approval process unsuccessful
Primary Actors	Organizer, Logistics & Media Team
Secondary Actors	Admin (Content Reviewer), Participants
Trigger	Organizer or media team uploads event photos and videos
Main Success Scenario	<ol style="list-style-type: none"> 1. Organizer or media team accesses media upload interface 2. Team uploads event photos and videos with metadata 3. System queues uploaded content for administrative review 4. Admin reviews content for appropriateness and quality 5. Admin approves content for public display 6. System publishes approved media to event's public gallery 7. Participants can view and download approved media
Alternative Flows	<p>4.1 Content Rejected - Admin provides feedback and requests resubmission</p> <p>2.1 Upload Fails - System provides error message and retry option</p>

	6.1 Publication Error - System logs error and notifies admin for manual intervention
Quality Requirements	Media uploads must support files up to 100MB with gallery updates within 1 hour of approval

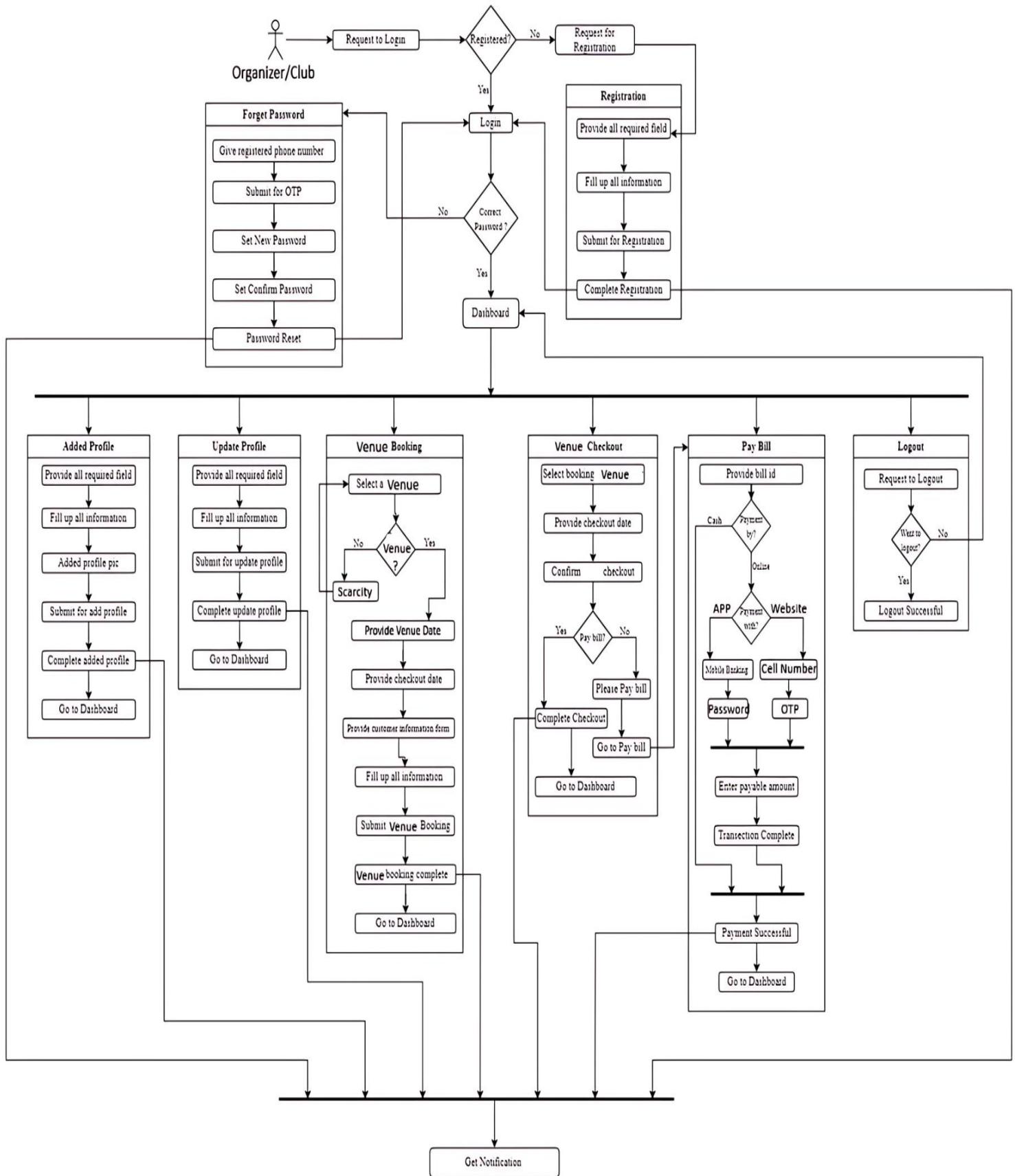
Use Case 13: Admin Analytics Dashboard

Use Case	Admin Analytics Dashboard
Goal	Provide comprehensive insights into platform usage and event performance metrics
Preconditions	Admin is logged in and has appropriate permissions
Success End Condition	Analytics dashboard displays current metrics with export capability
Failed End Condition	Dashboard fails to load or displays incorrect information
Primary Actors	Department Admin
Secondary Actors	—
Trigger	Admin clicks "Analytics" in the navigation menu
Main Success Scenario	<ol style="list-style-type: none"> 1. System displays analytics dashboard with key performance indicators 2. Dashboard shows charts for events per month, approval rates, and user engagement 3. System provides filtering options by date range, department,

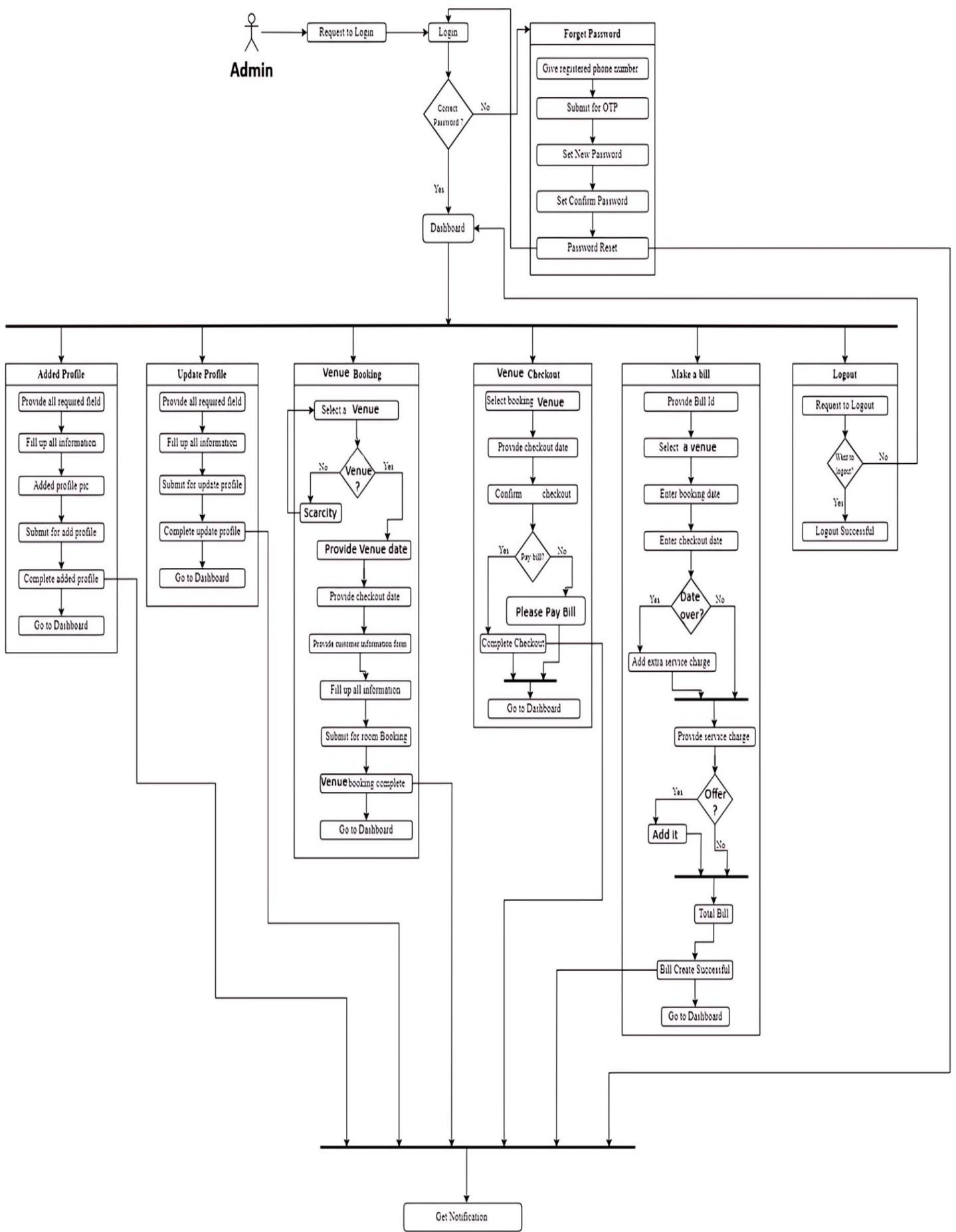
	<p>or event type</p> <p>4. Admin can drill down into specific metrics for detailed analysis</p> <p>5. The system generates exportable reports in CSV or PDF format</p> <p>6. Admin downloads reports for documentation and presentation purposes</p>
Alternative Flows	<p>2.1 Insufficient Data - System displays message indicating limited data availability</p> <p>4.1 Database Query Timeout - System provides cached results with refresh option</p> <p>5.1 Export Generation Failed - System logs error and offers alternative data access methods</p>
Quality Requirements	Dashboard must load within 5 seconds and support real-time data updates with export generation completing within 30 seconds

Project Block Diagram

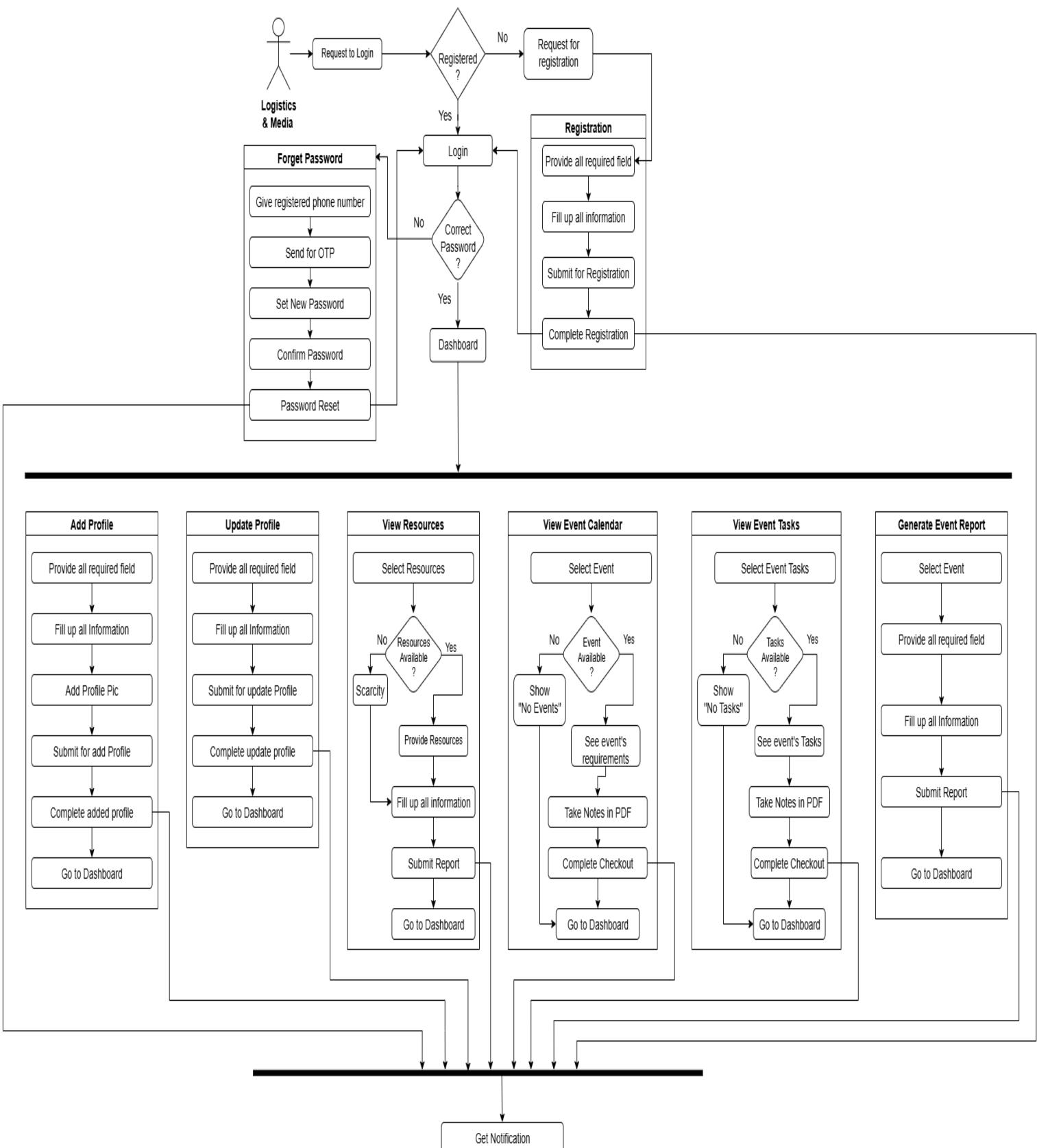
Block Diagram - 01: Club / Organizer



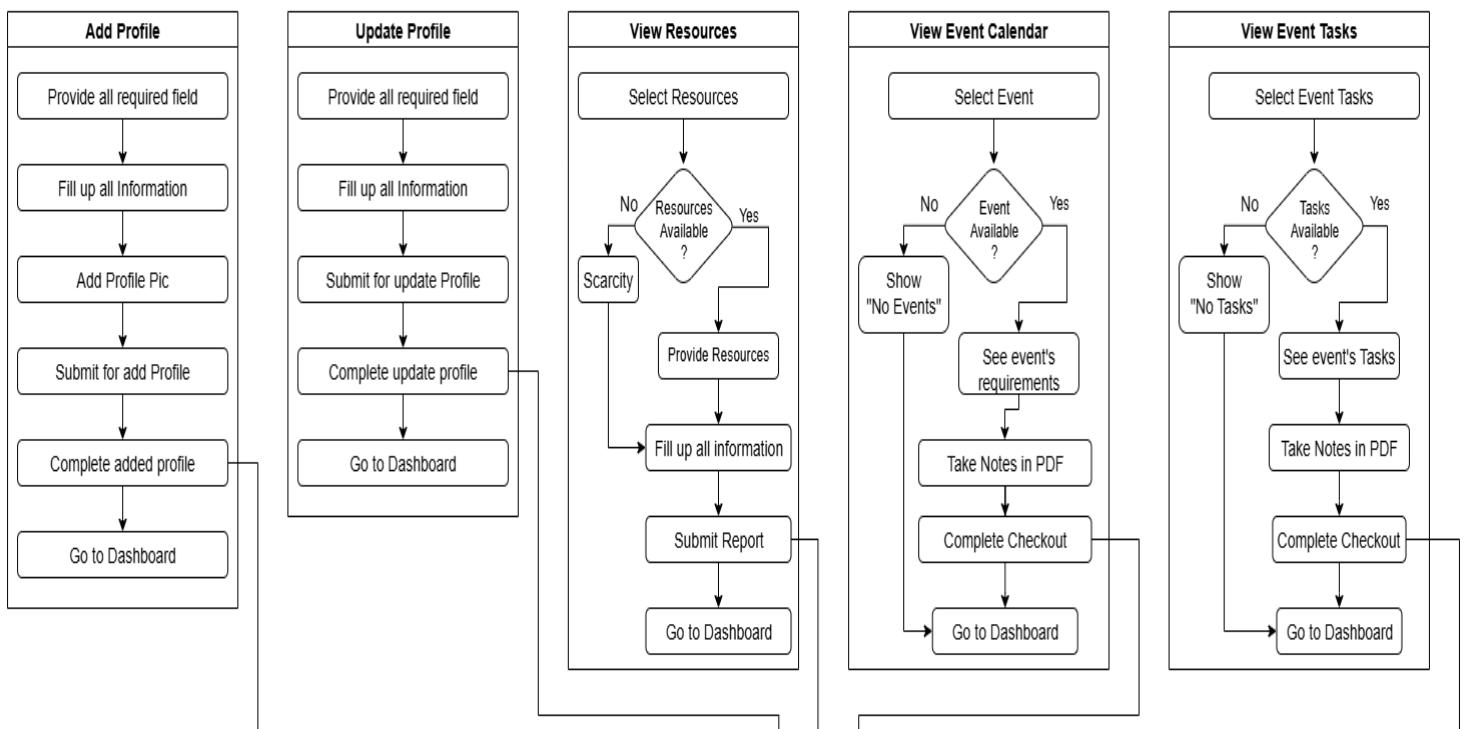
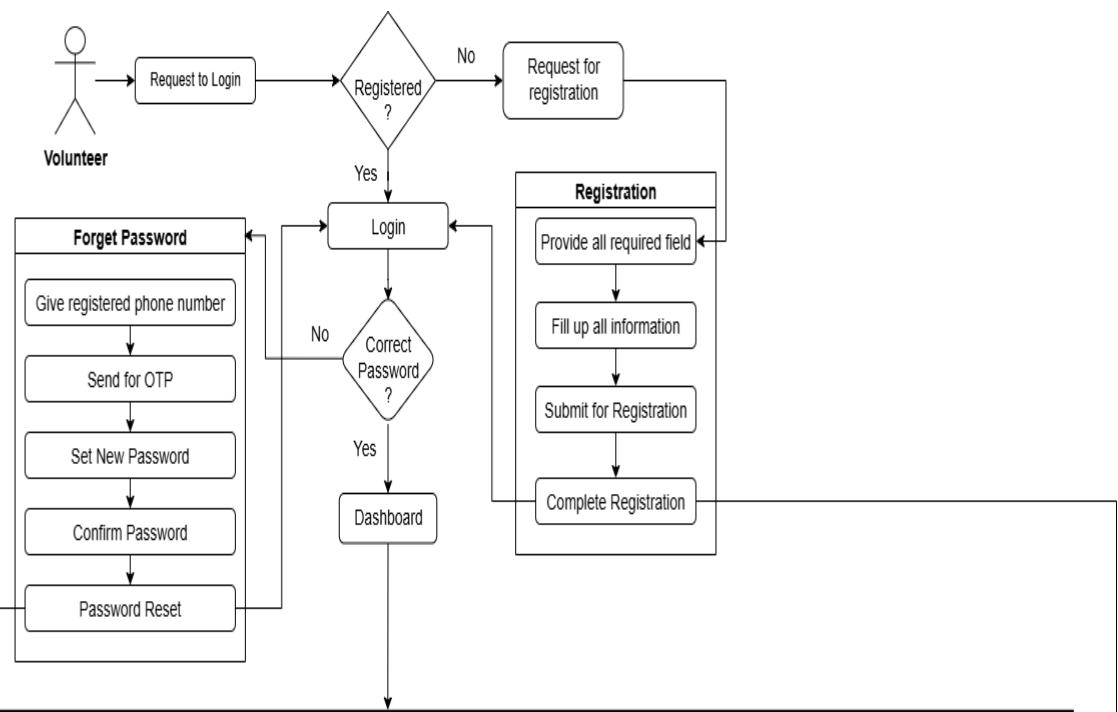
Block Diagram - 02: Department Admin



Block Diagram - 03: Logistics & Media



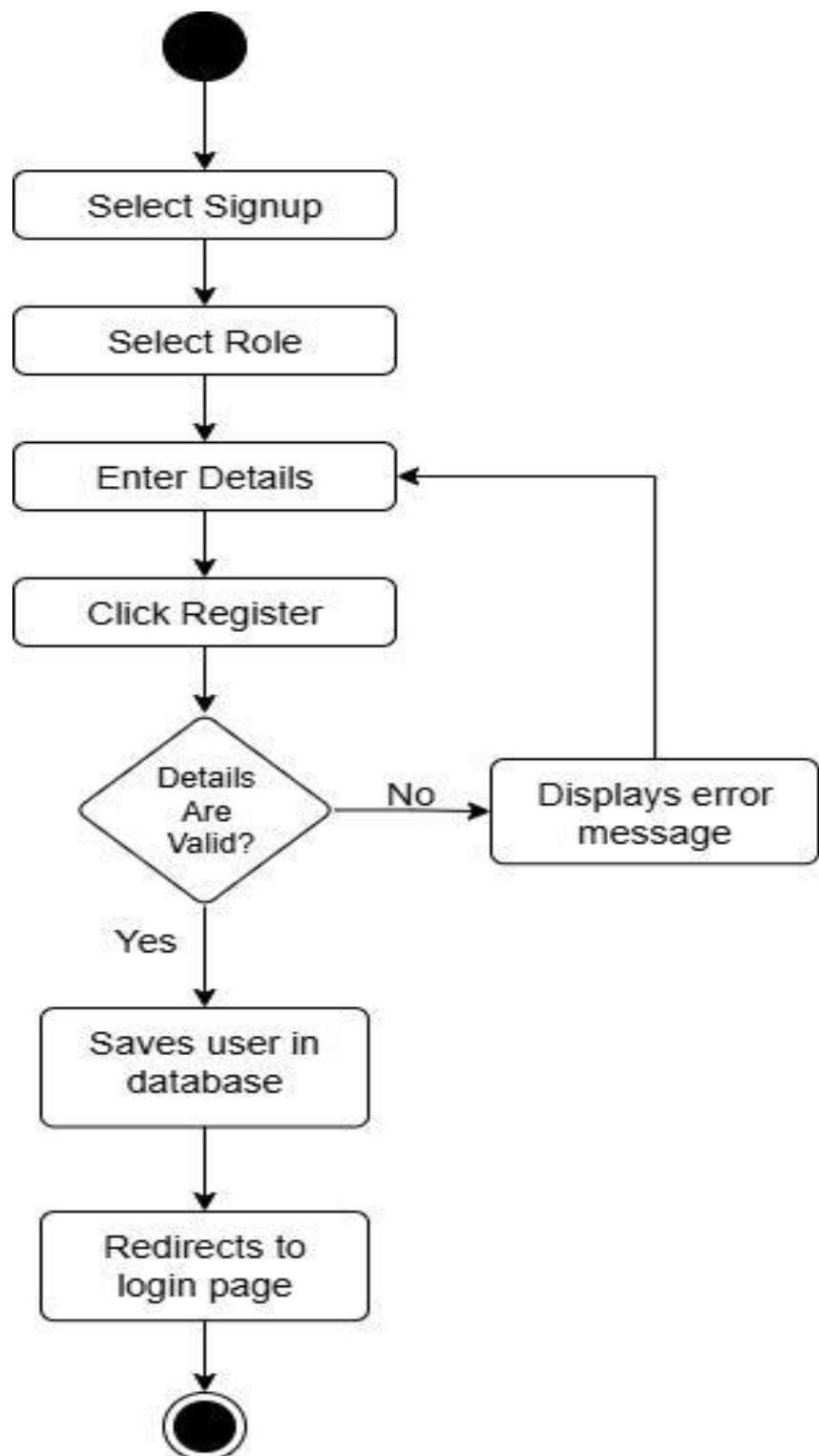
Block Diagram - 04: Volunteer



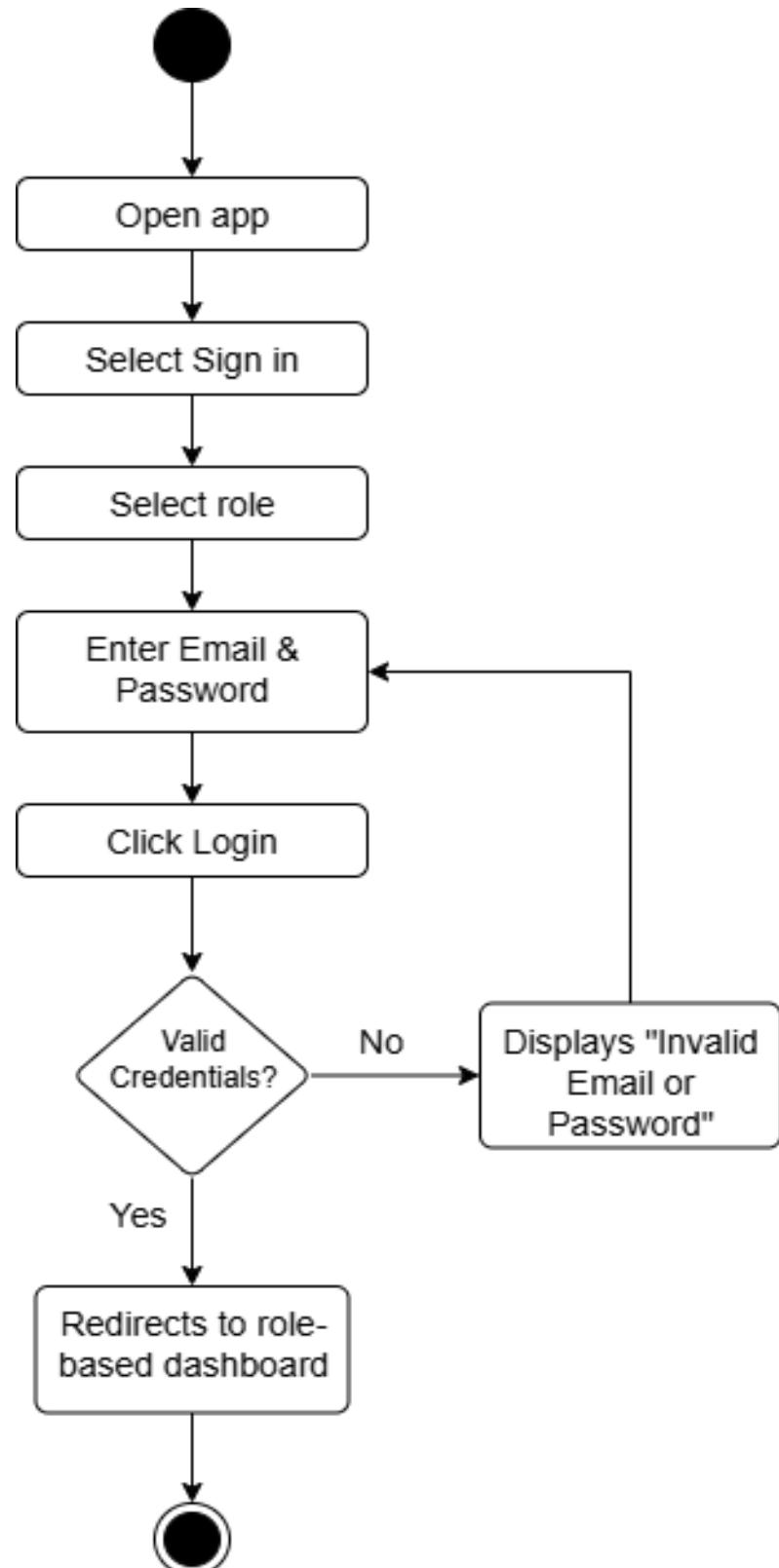
Get Notification

Activity Diagram

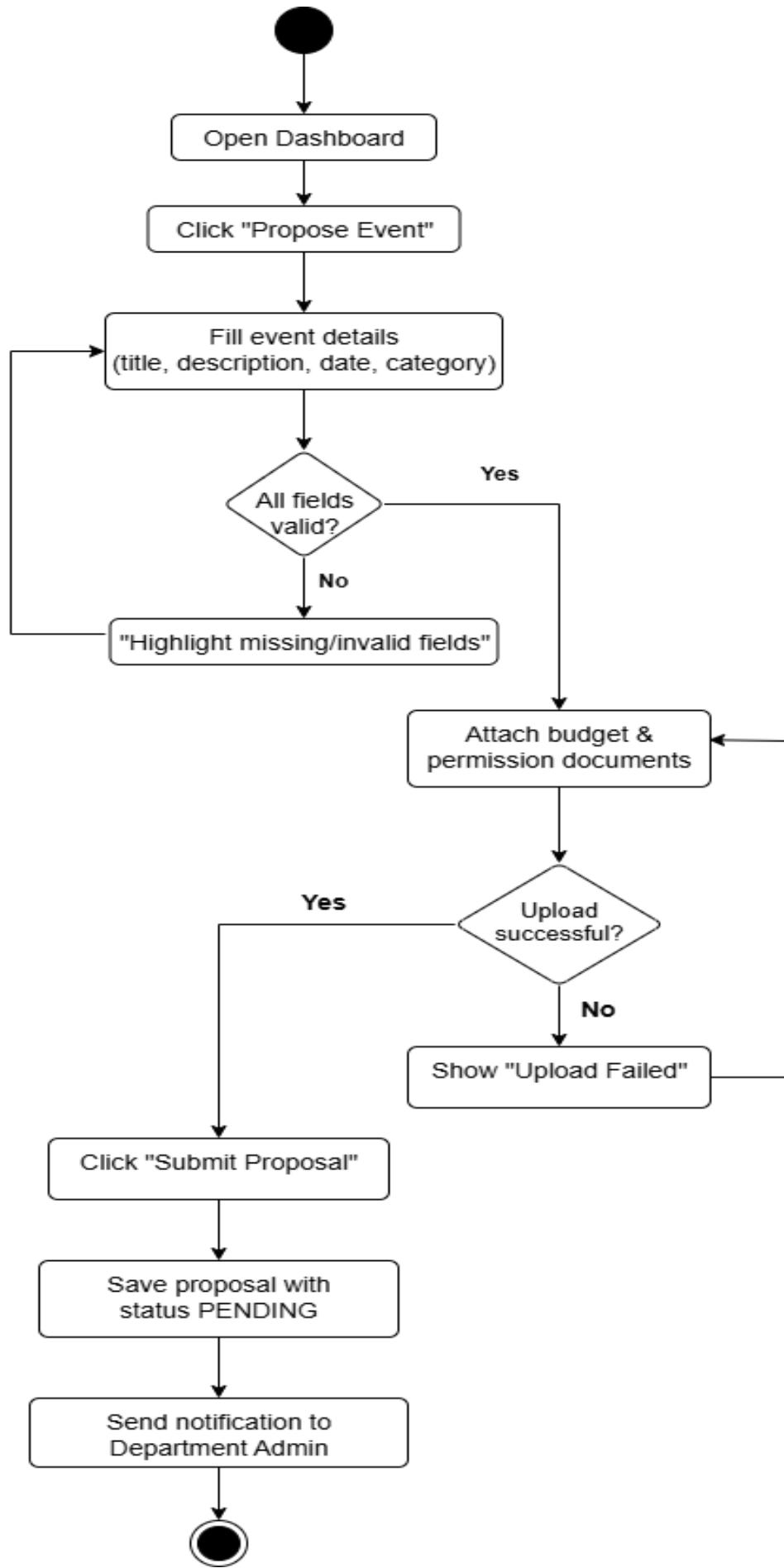
Activity diagram - 01: Registration



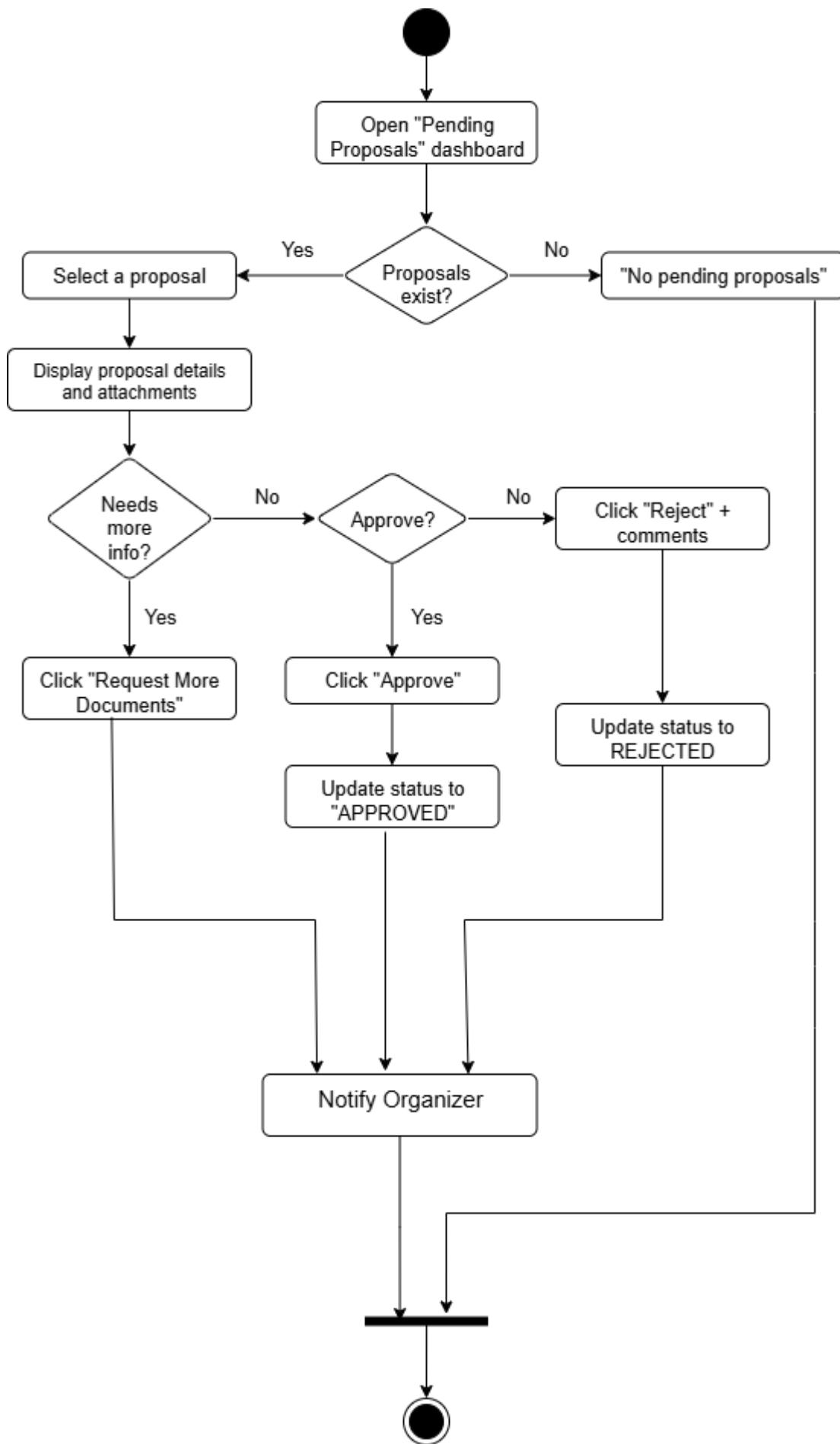
Activity diagram - 02: Login



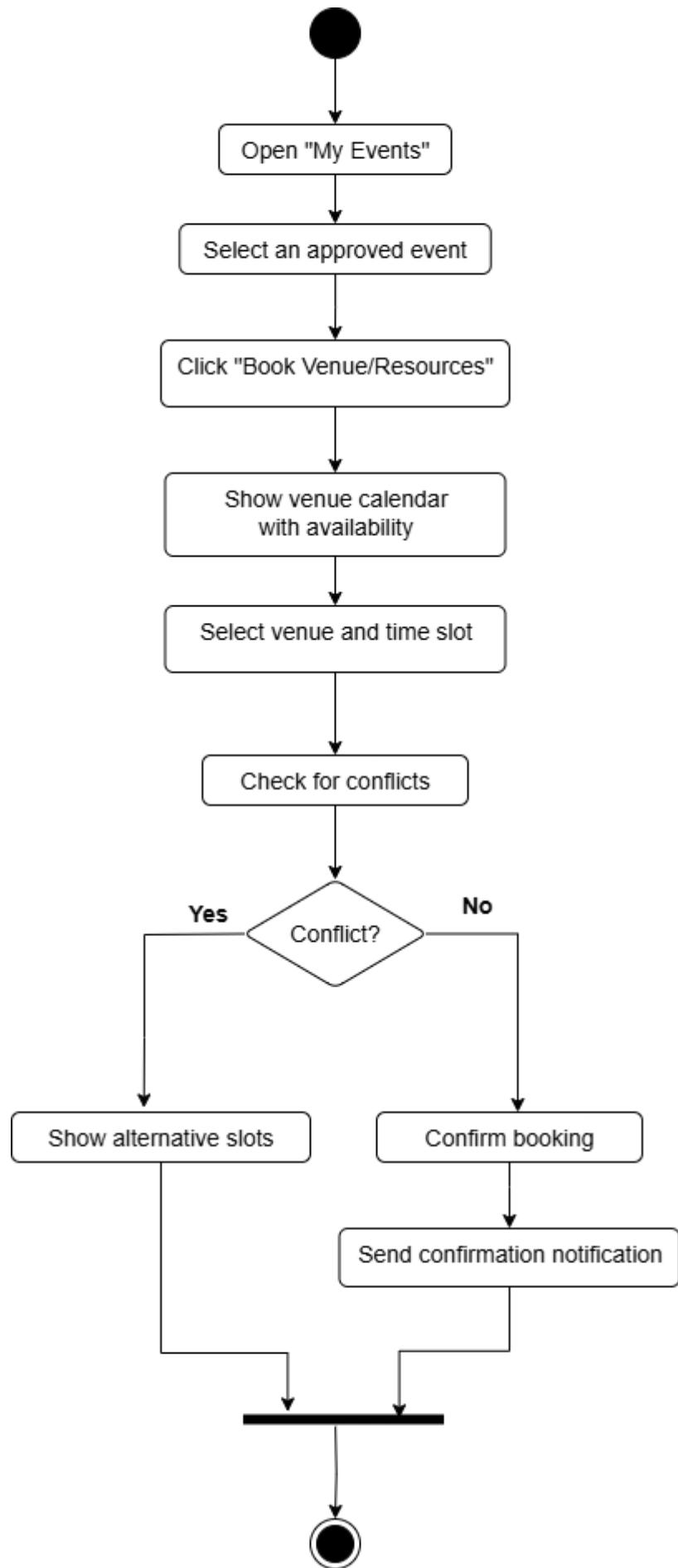
Activity Diagram - 03: Submit Event Proposal



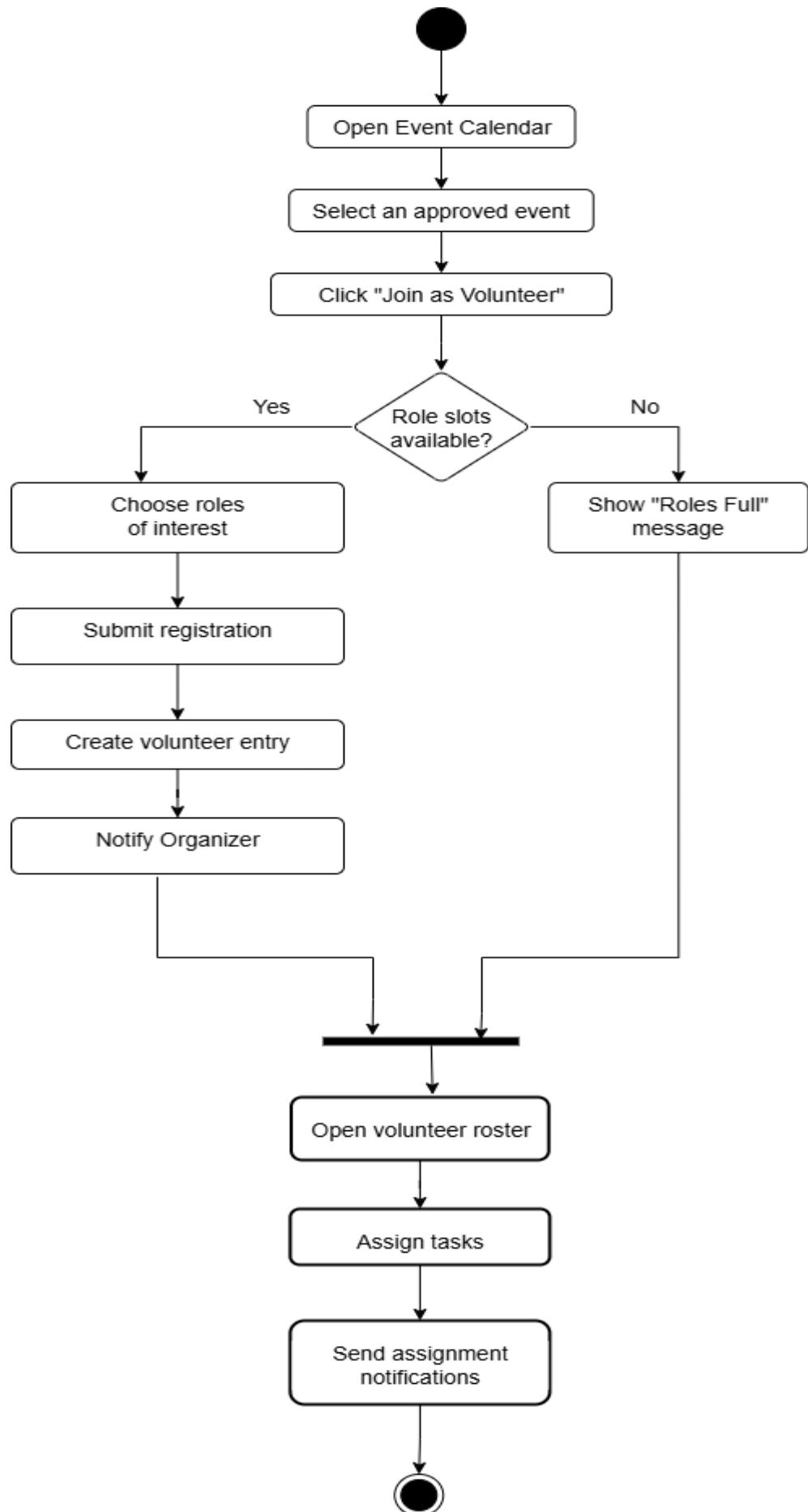
Activity Diagram - 04: Review & Approve Proposal



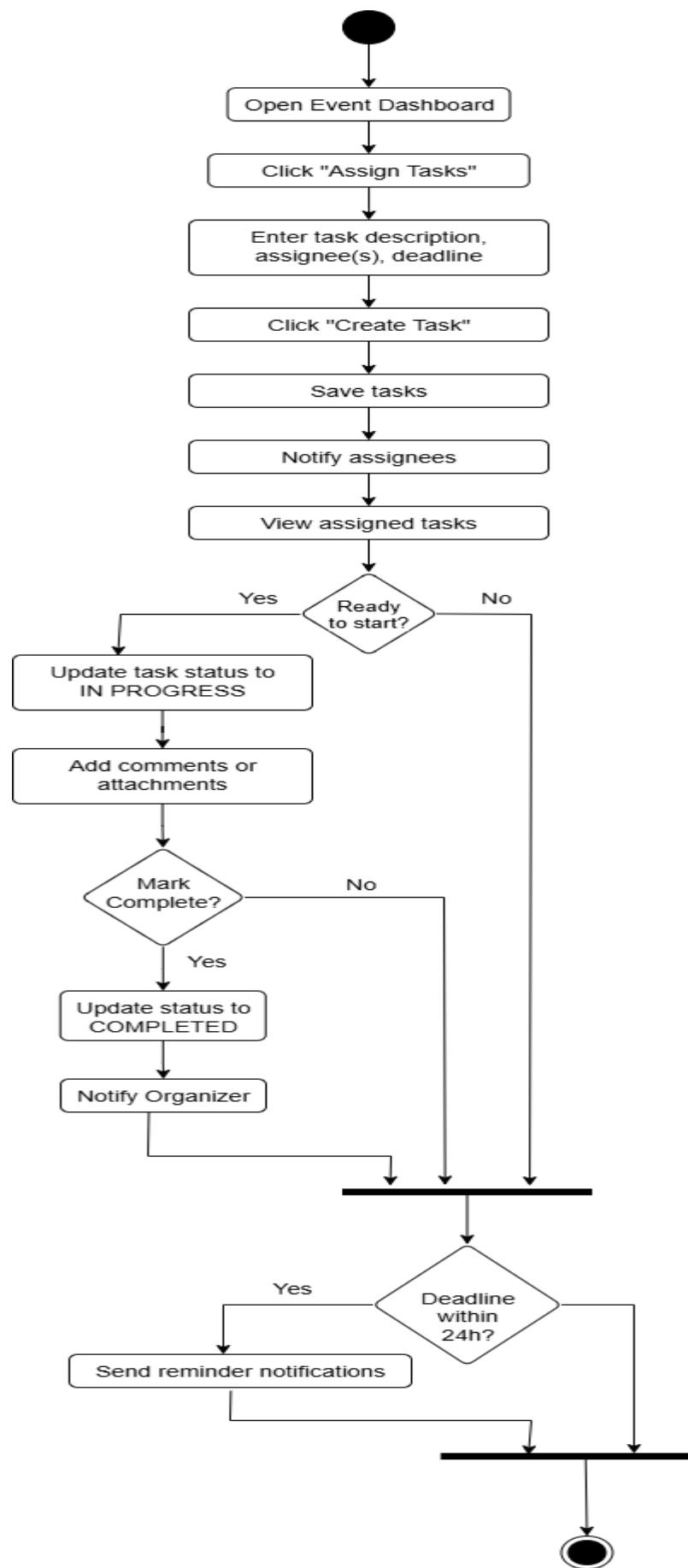
Activity Diagram - 05: Book Venue & Resources



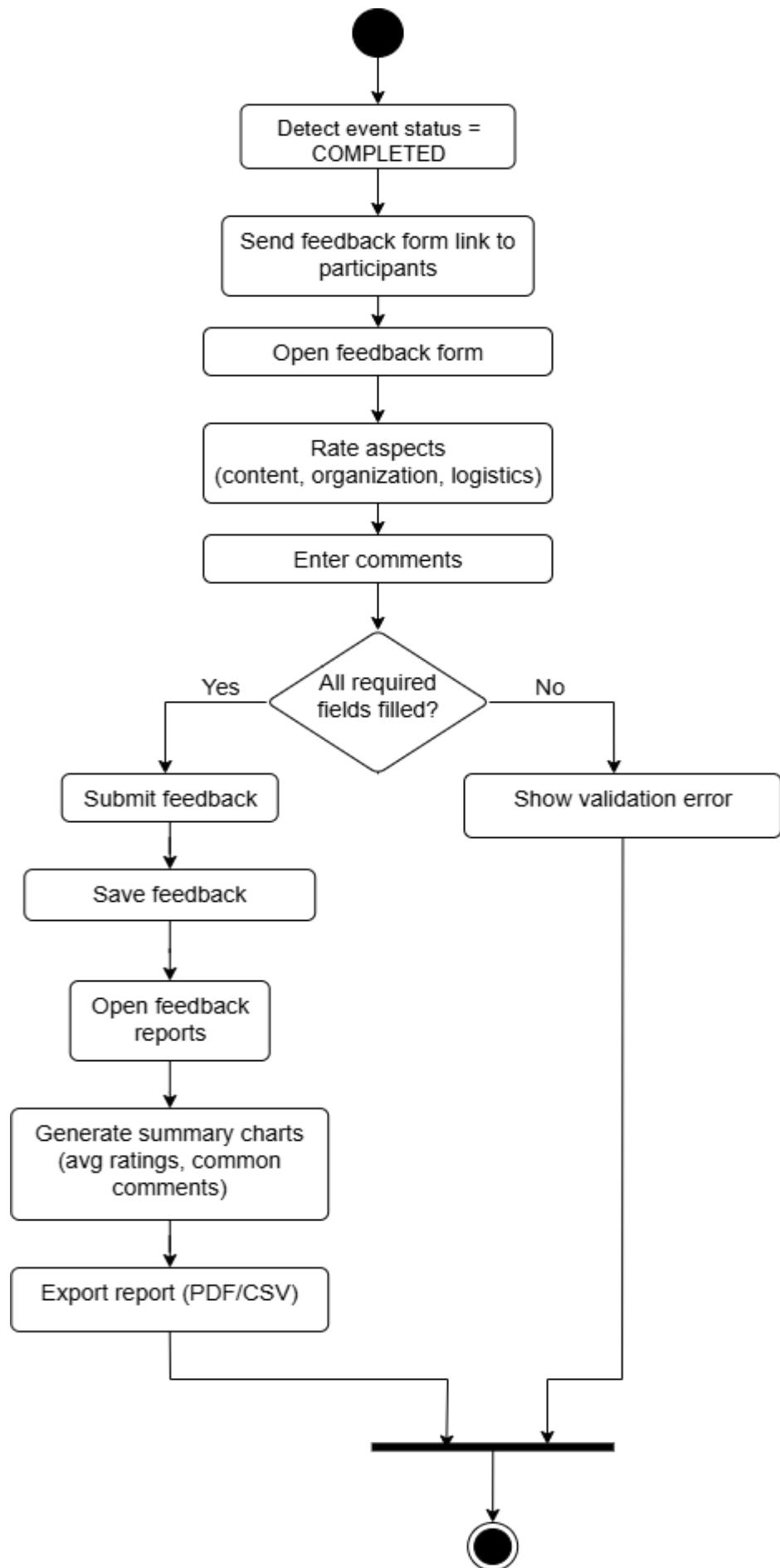
Activity Diagram - 06: Volunteer Registration & Assignment



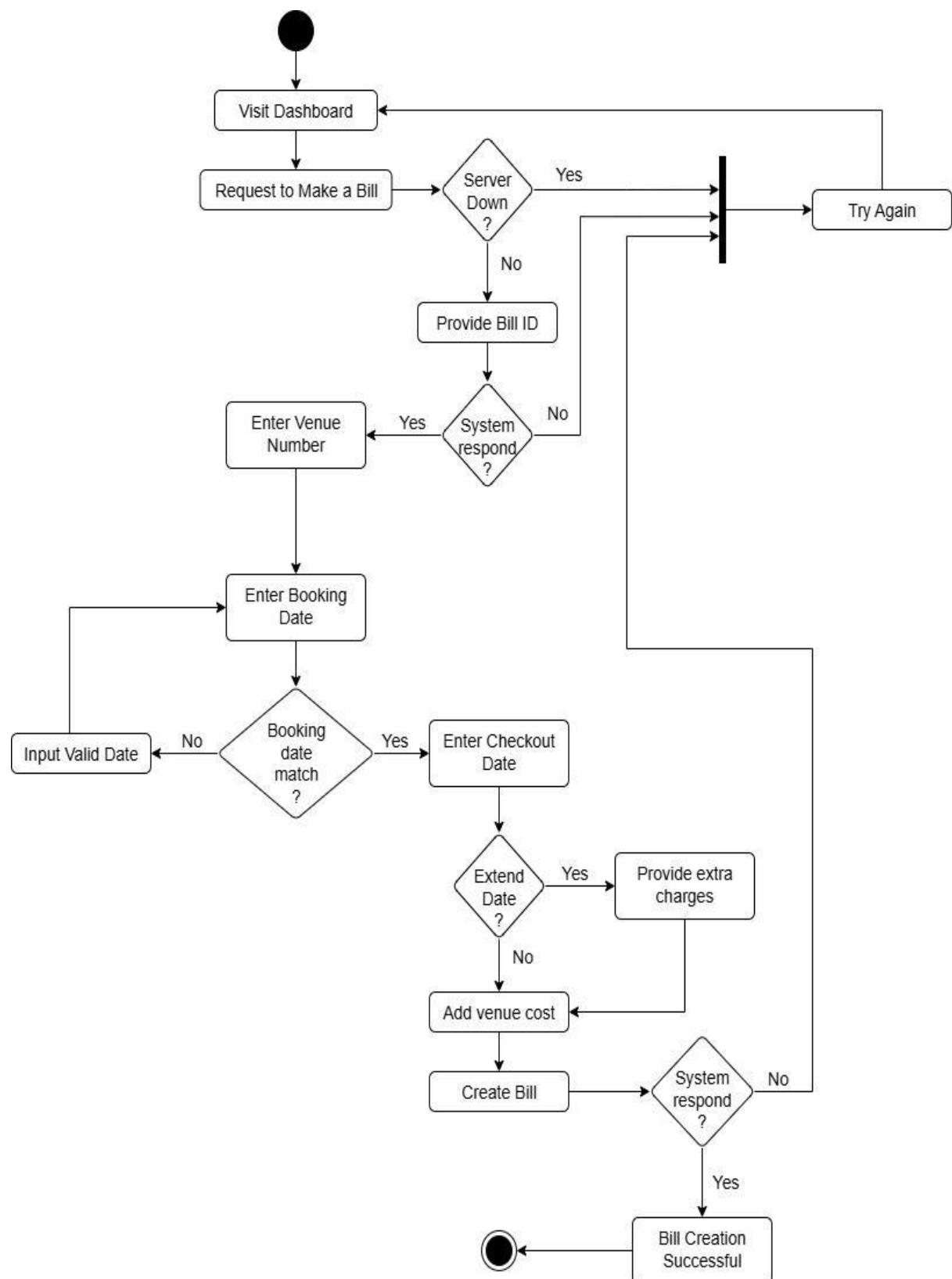
Activity Diagram - 07: Task Coordination & Progress Tracking



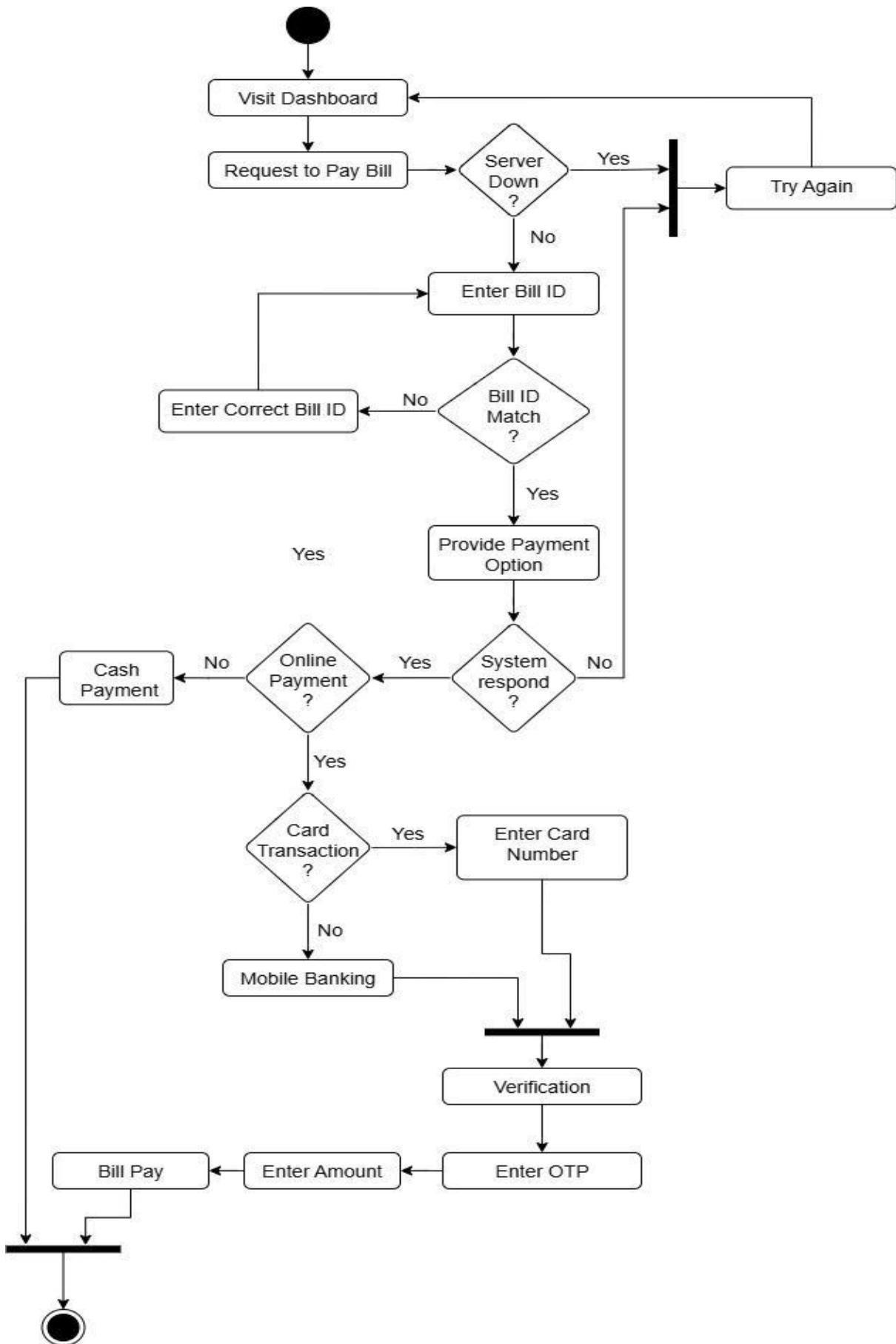
Activity Diagram - 08: Feedback Collection & Reporting



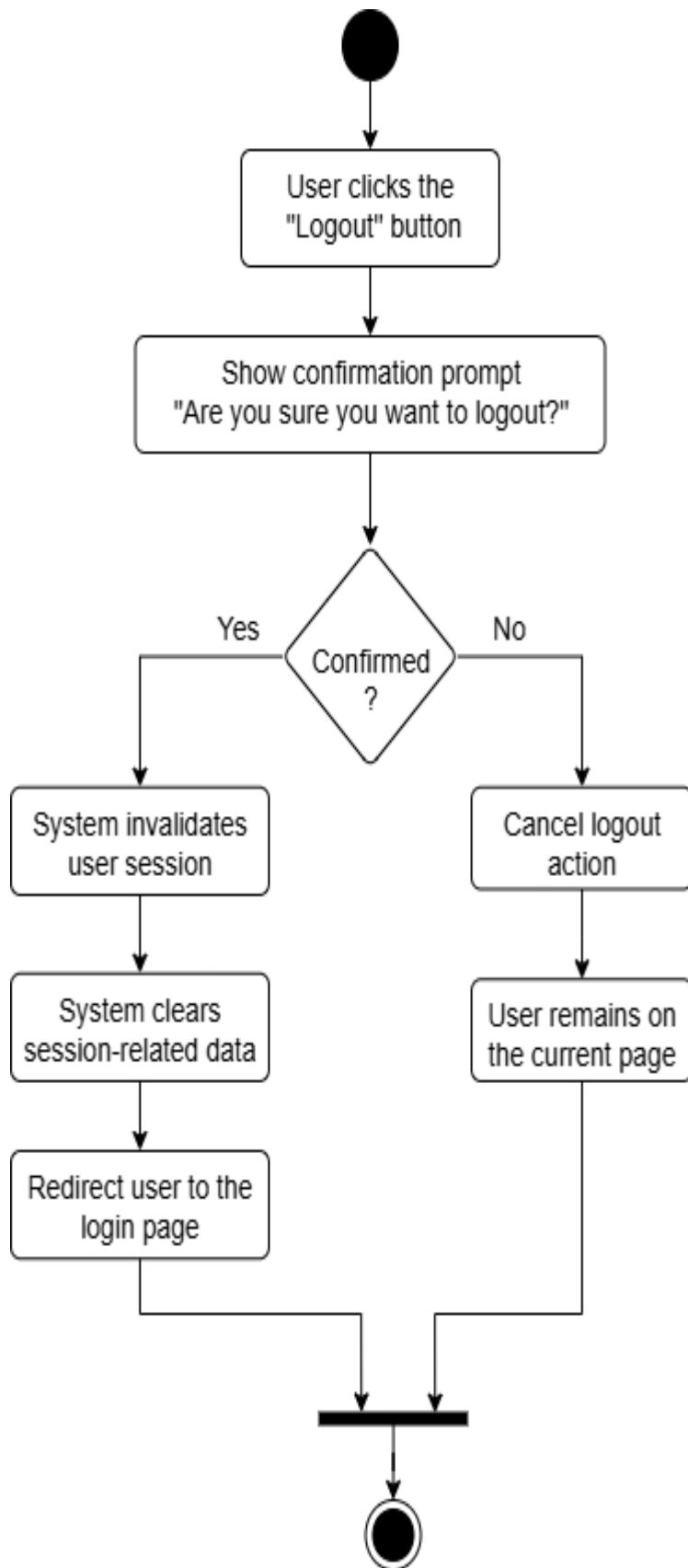
Activity Diagram - 09: Make a Bill



Activity Diagram - 10: Pay Bill

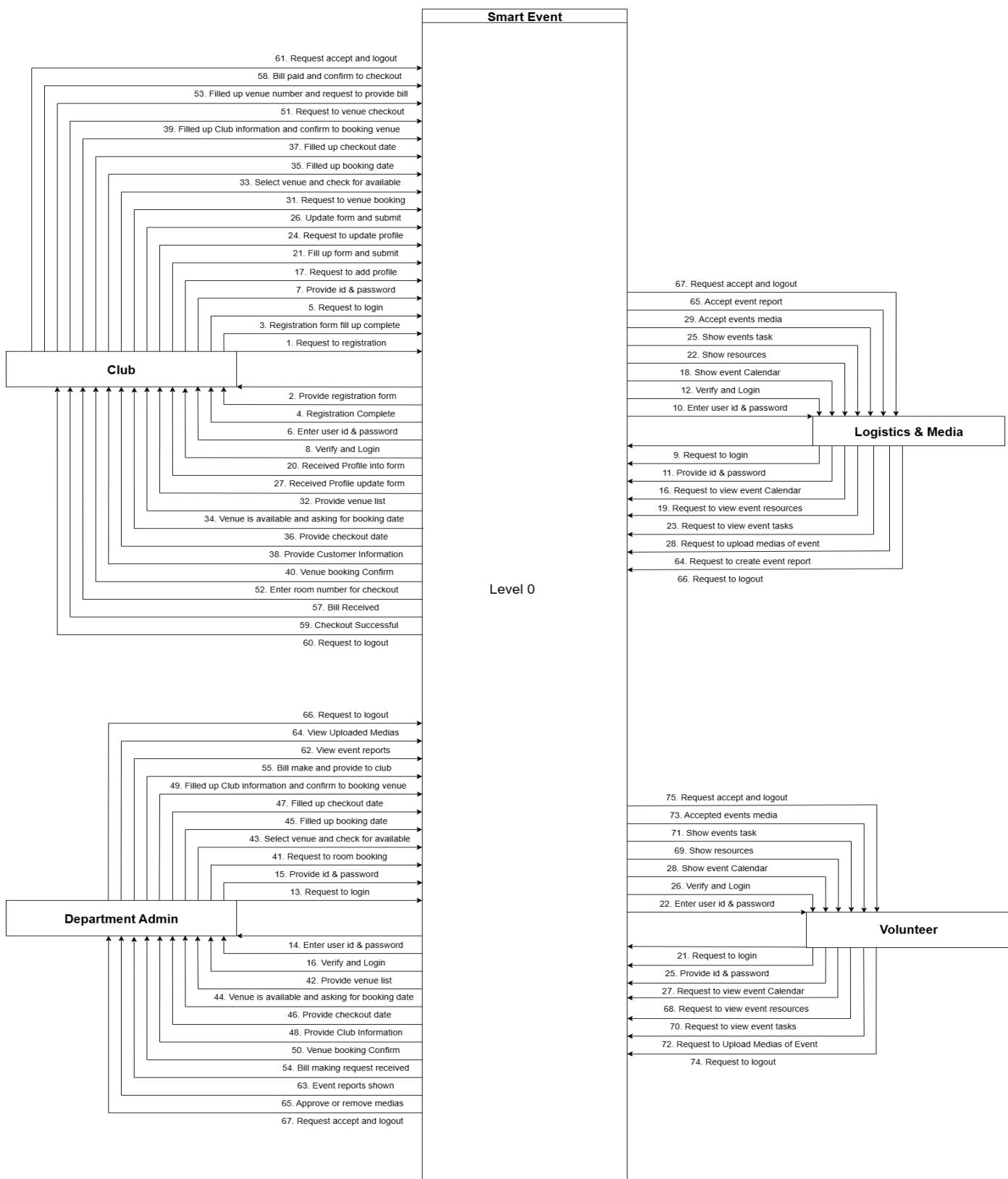


Activity Diagram - 11: Logout

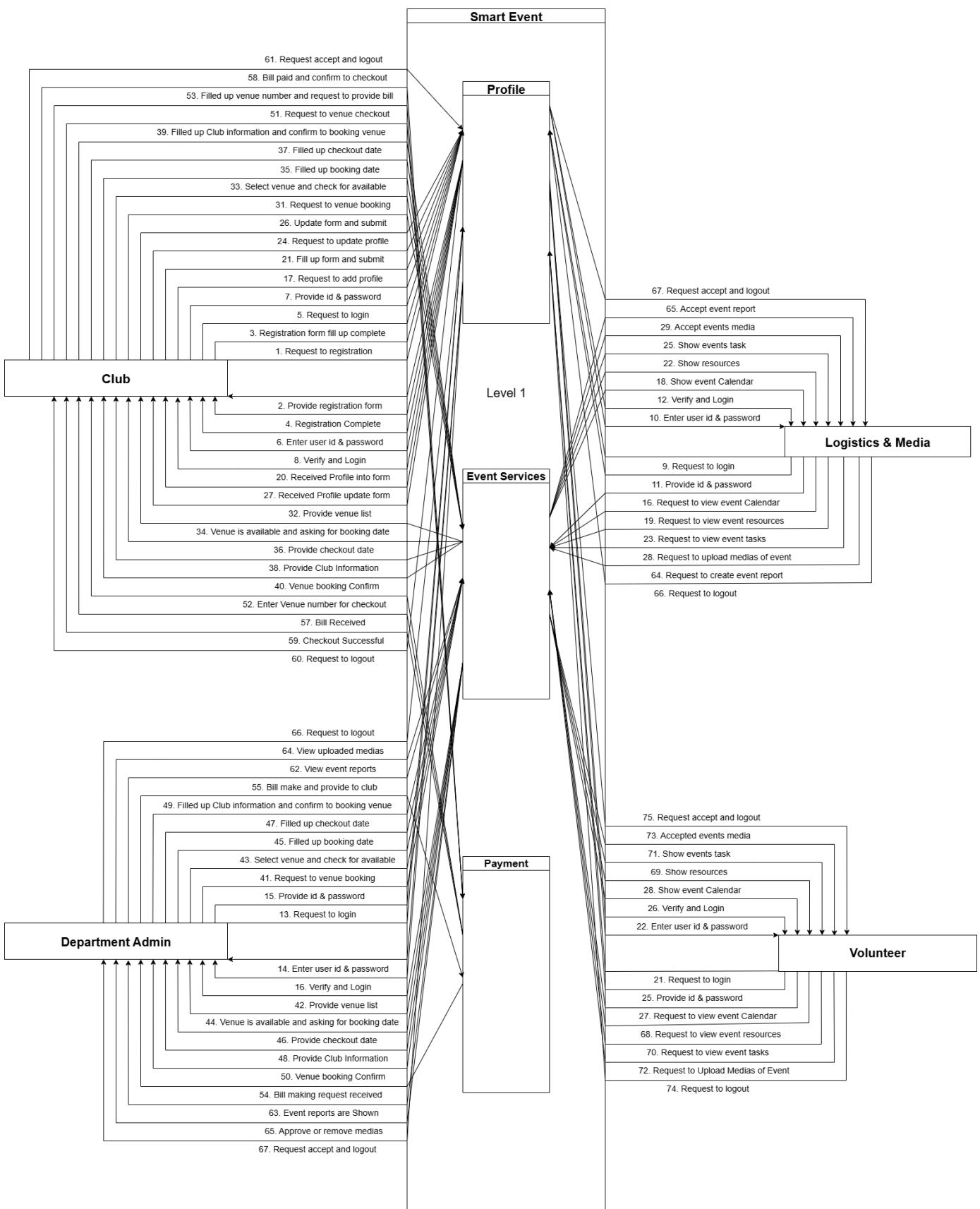


Data Flow Diagram

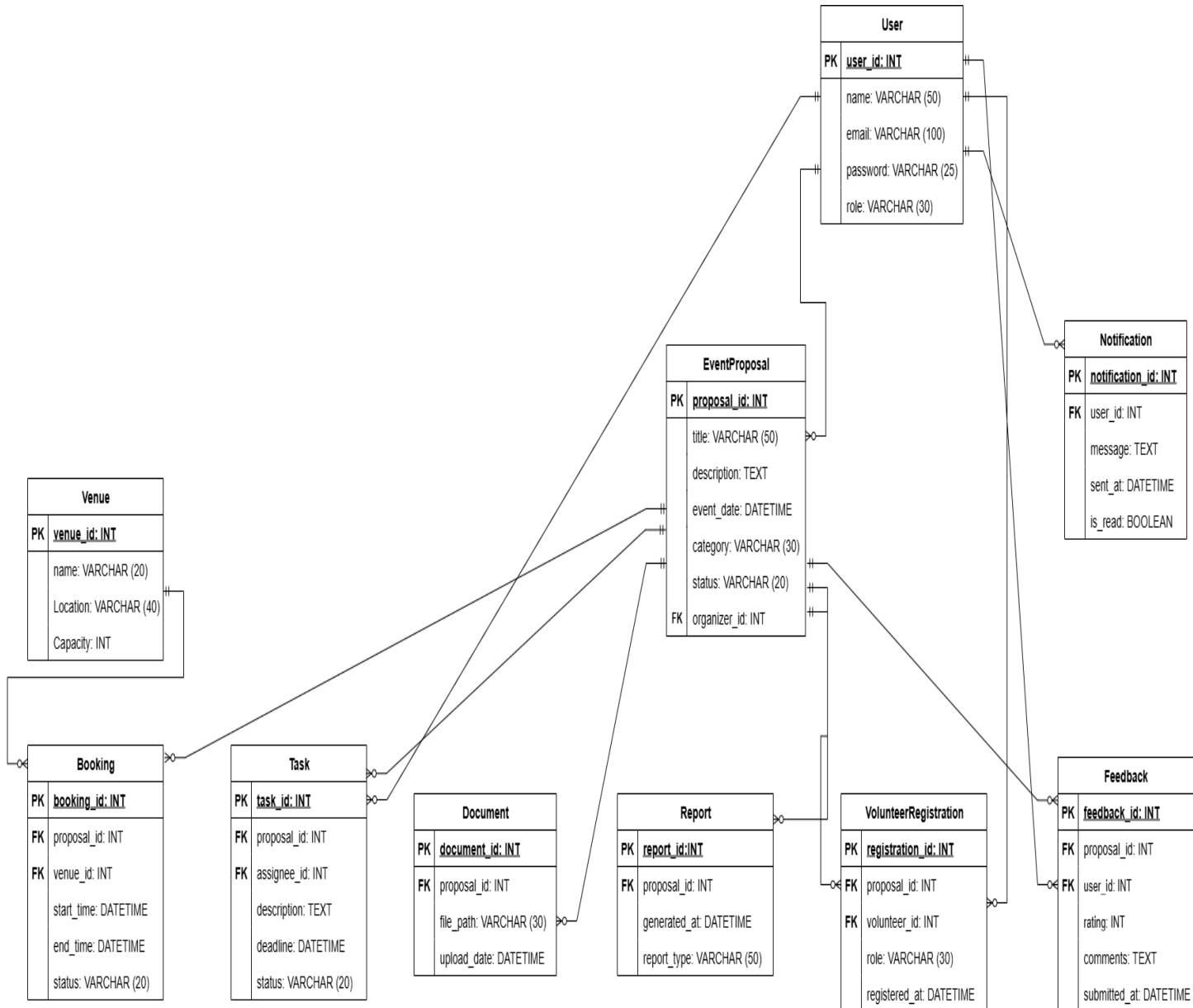
Data Flow Diagram Level - 0:



Data Flow Diagram Level - 1:



ER Diagram:

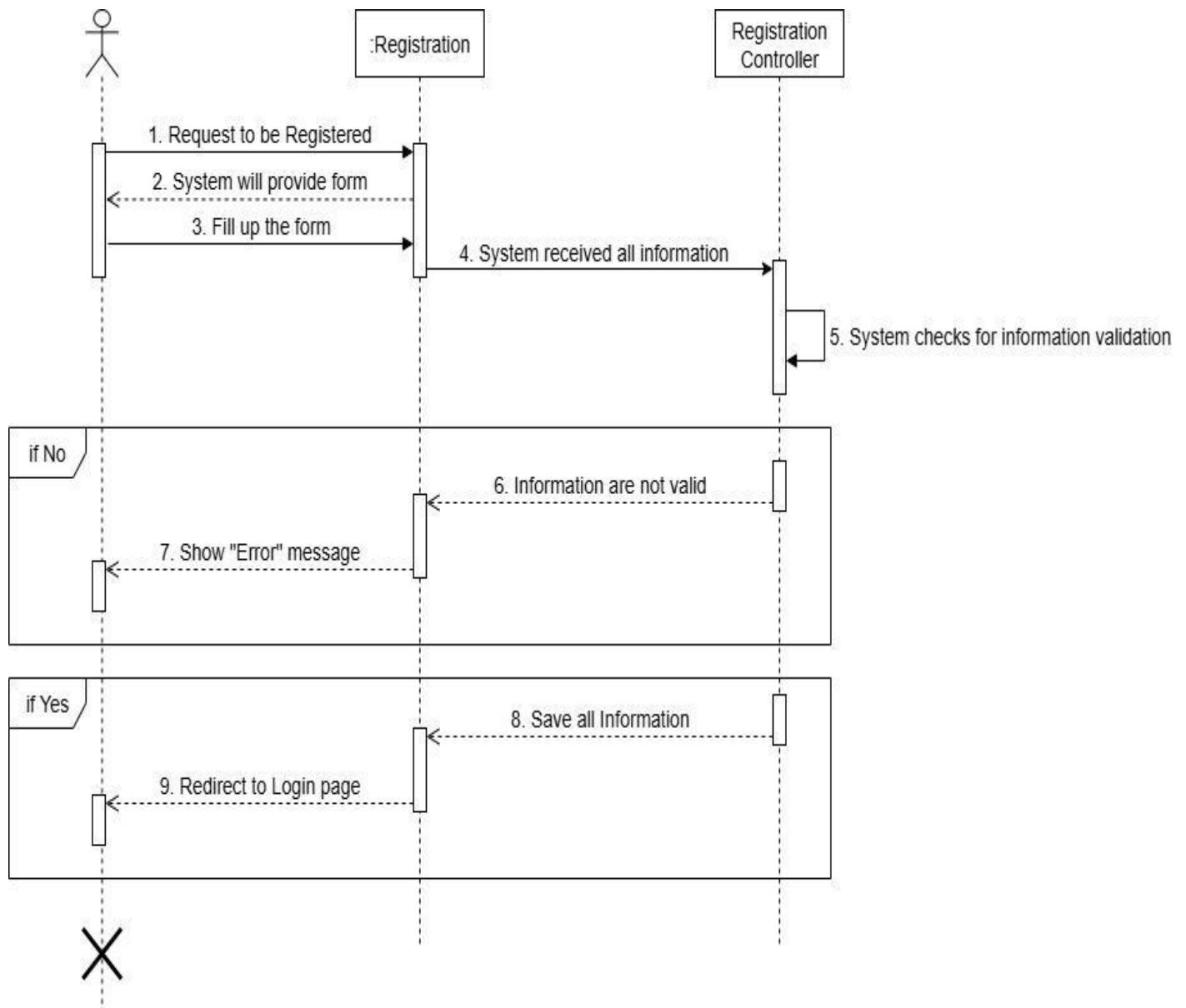


Class Diagram:

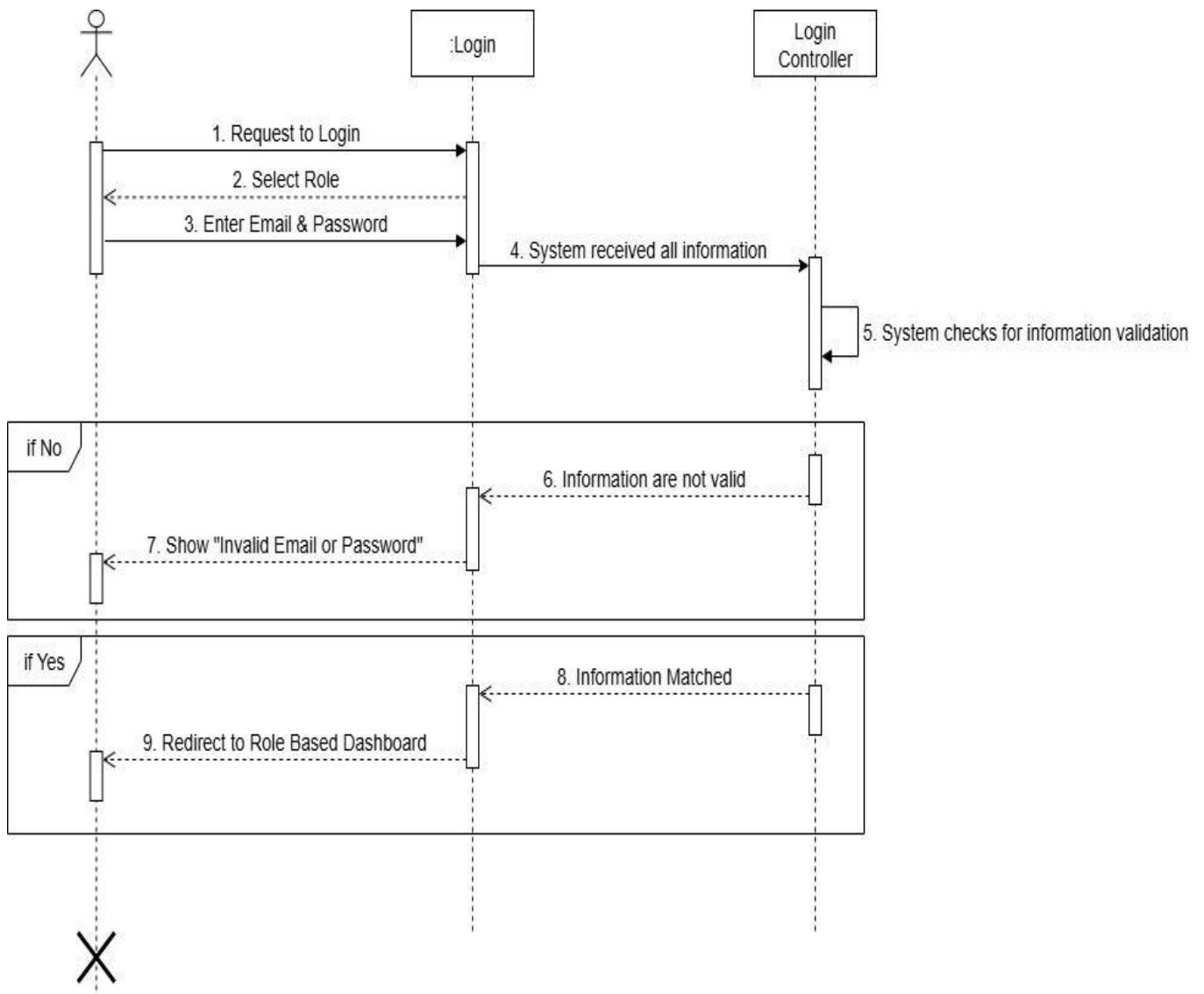


Sequence Diagram:

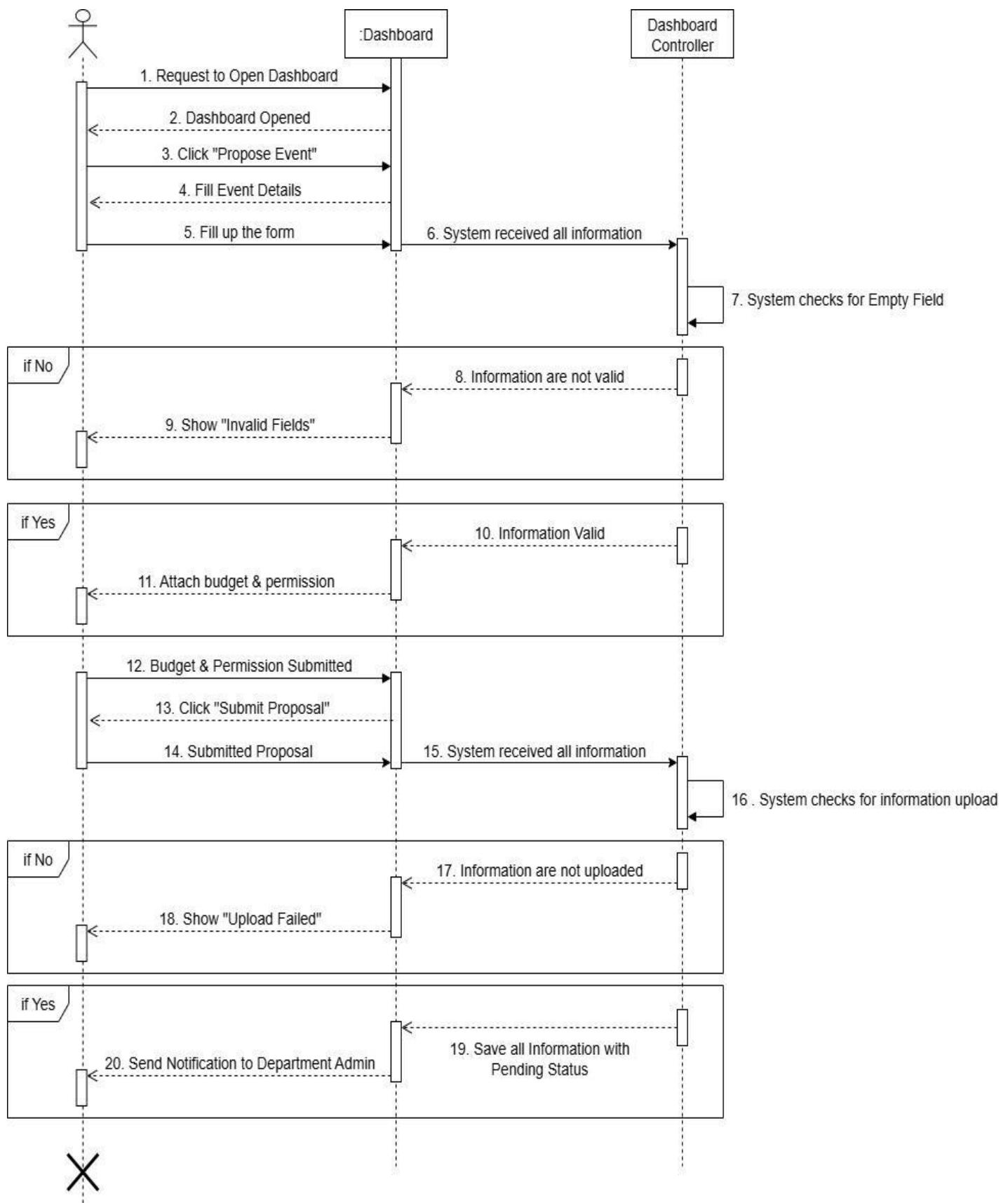
Sequence Diagram - 01: Registration



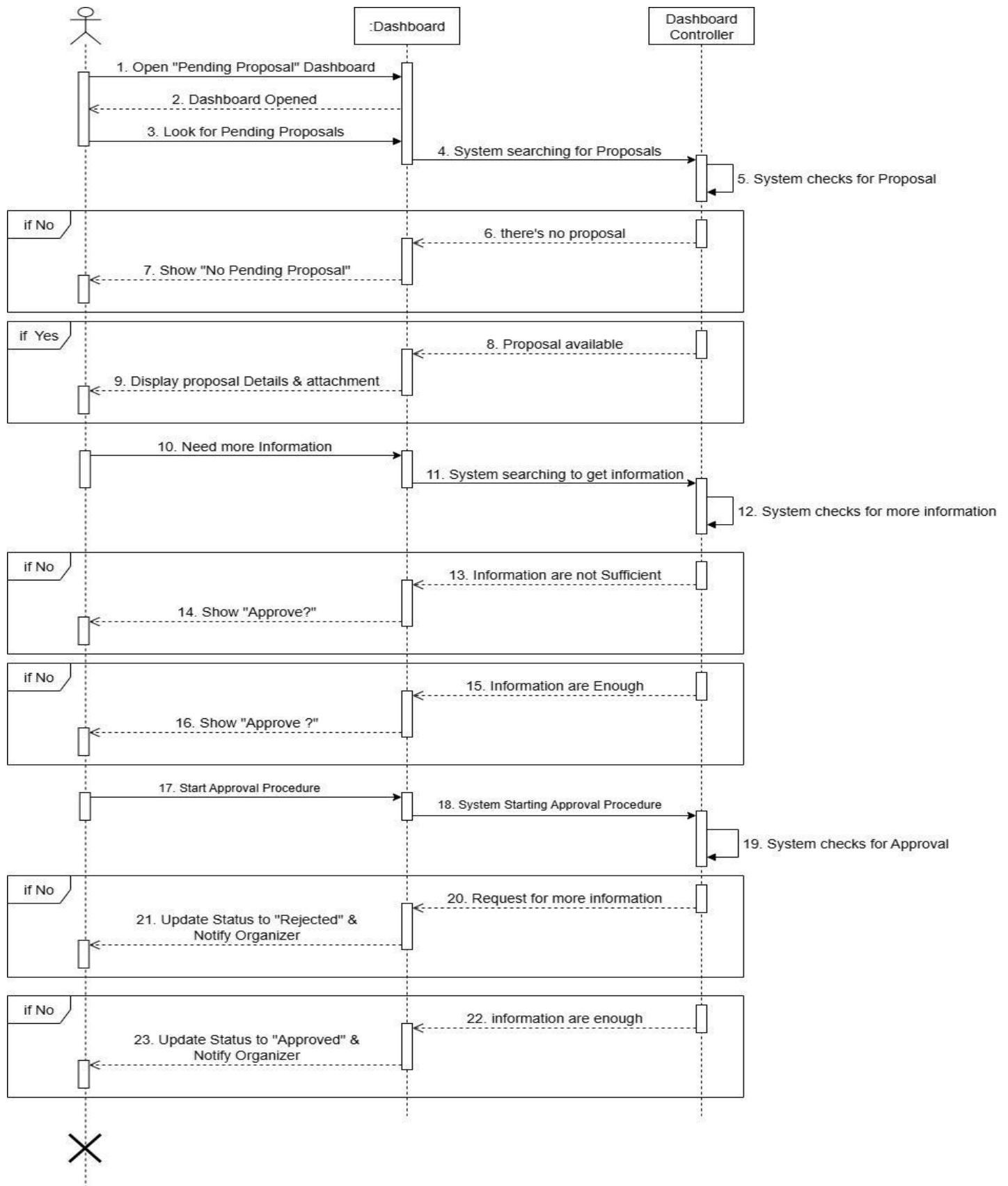
Sequence Diagram - 02: Login



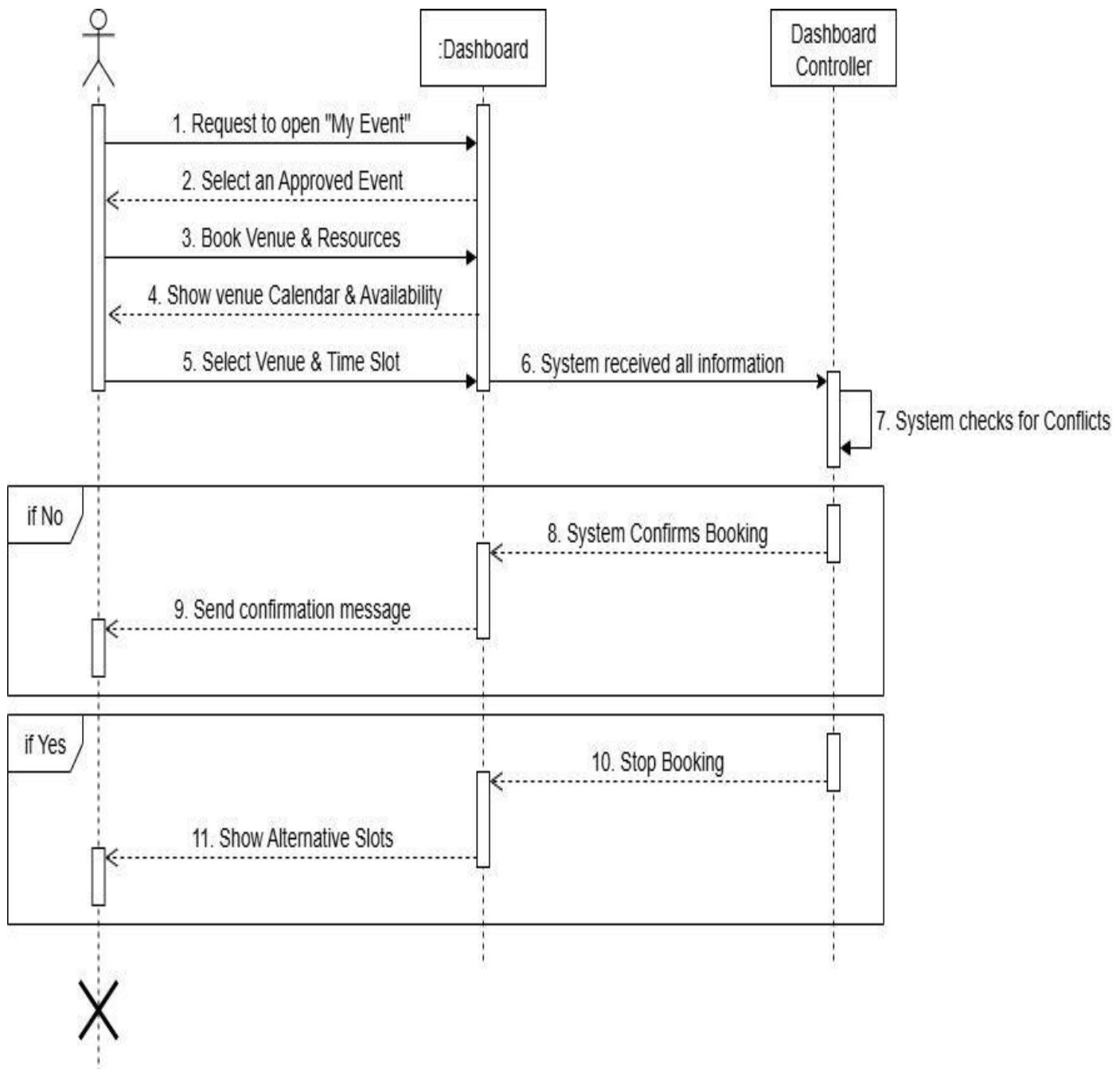
Sequence Diagram - 03: Submit Event Proposal



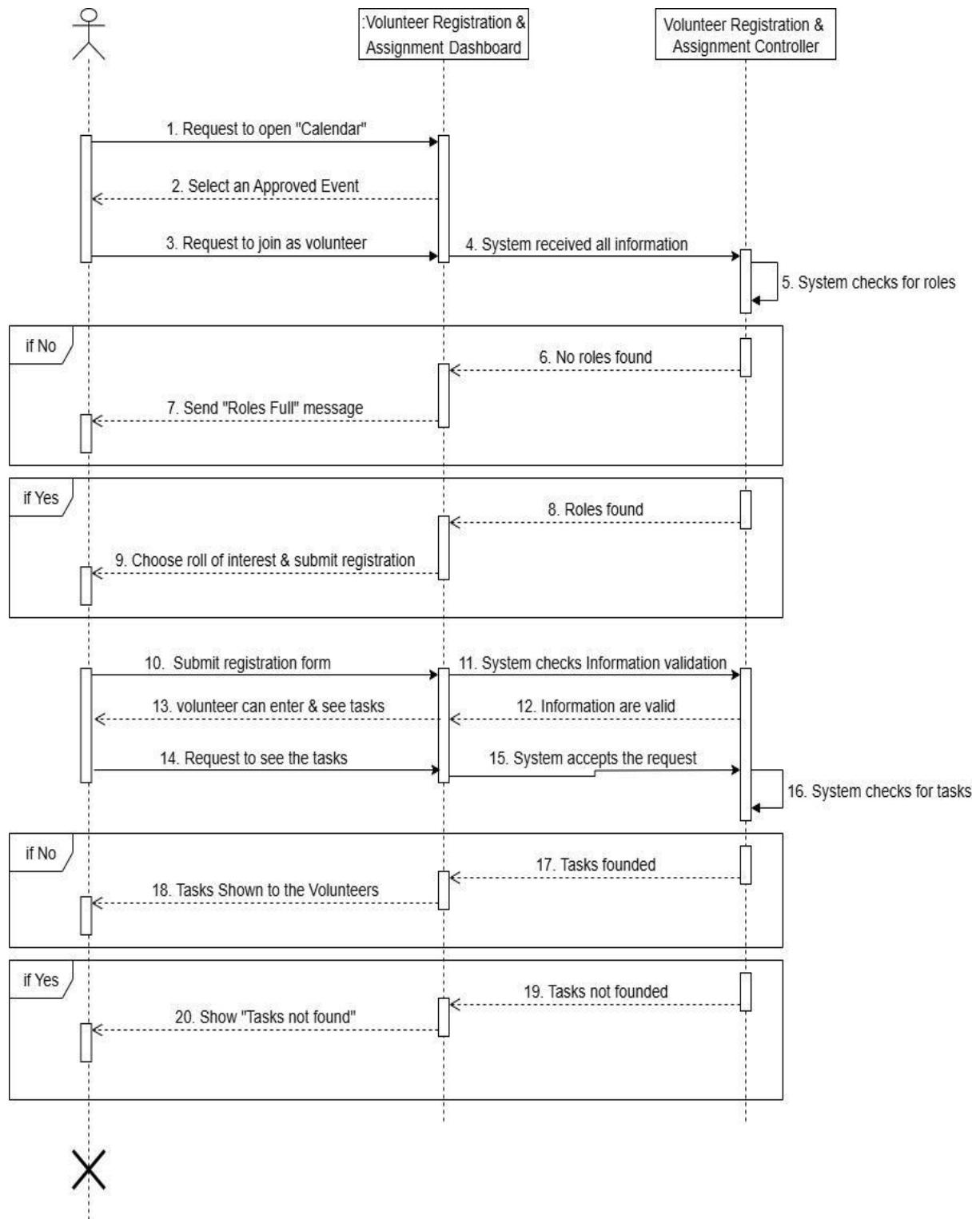
Sequence Diagram - 04: Review & Approve Proposal



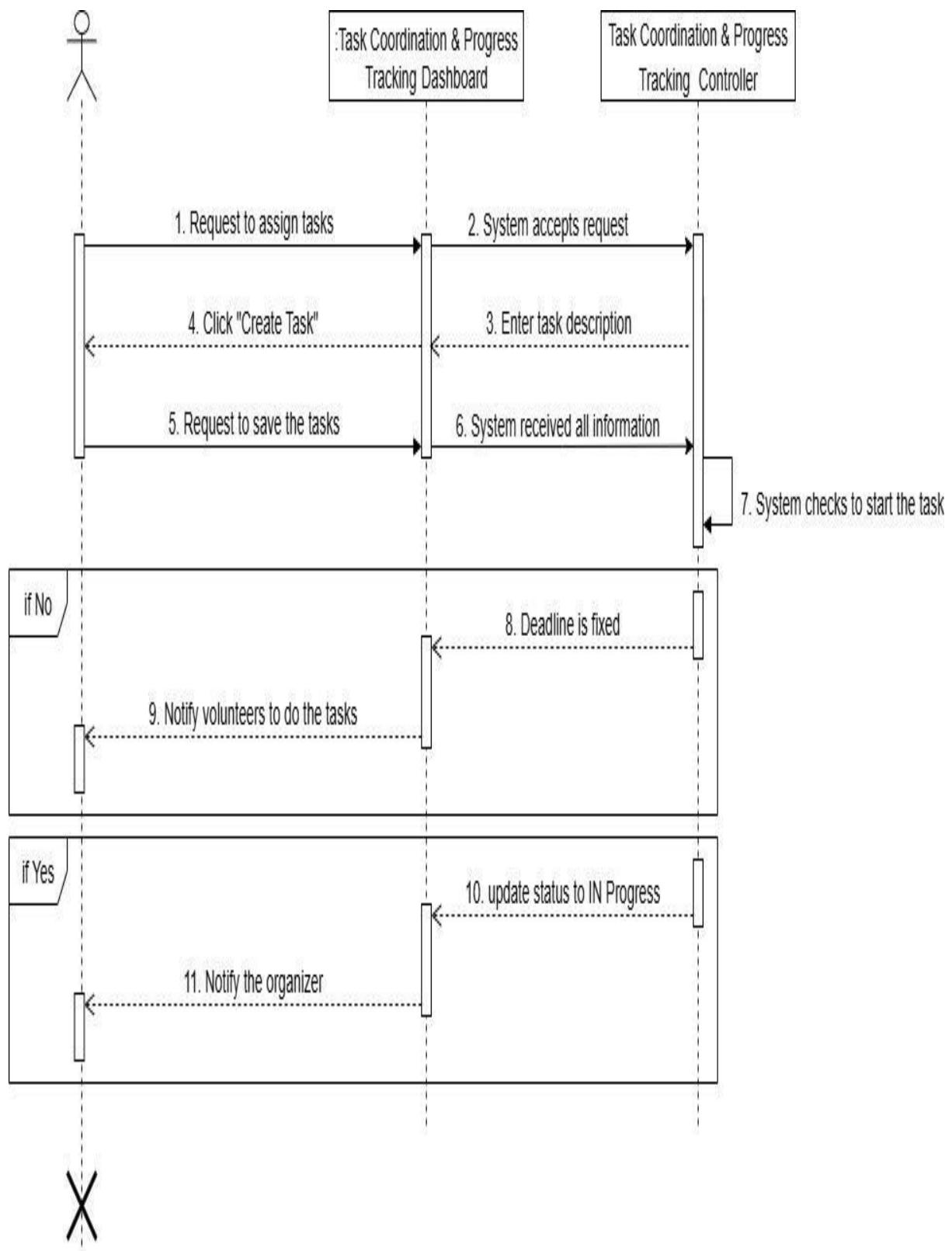
Sequence Diagram - 05: Book Venue & Resources



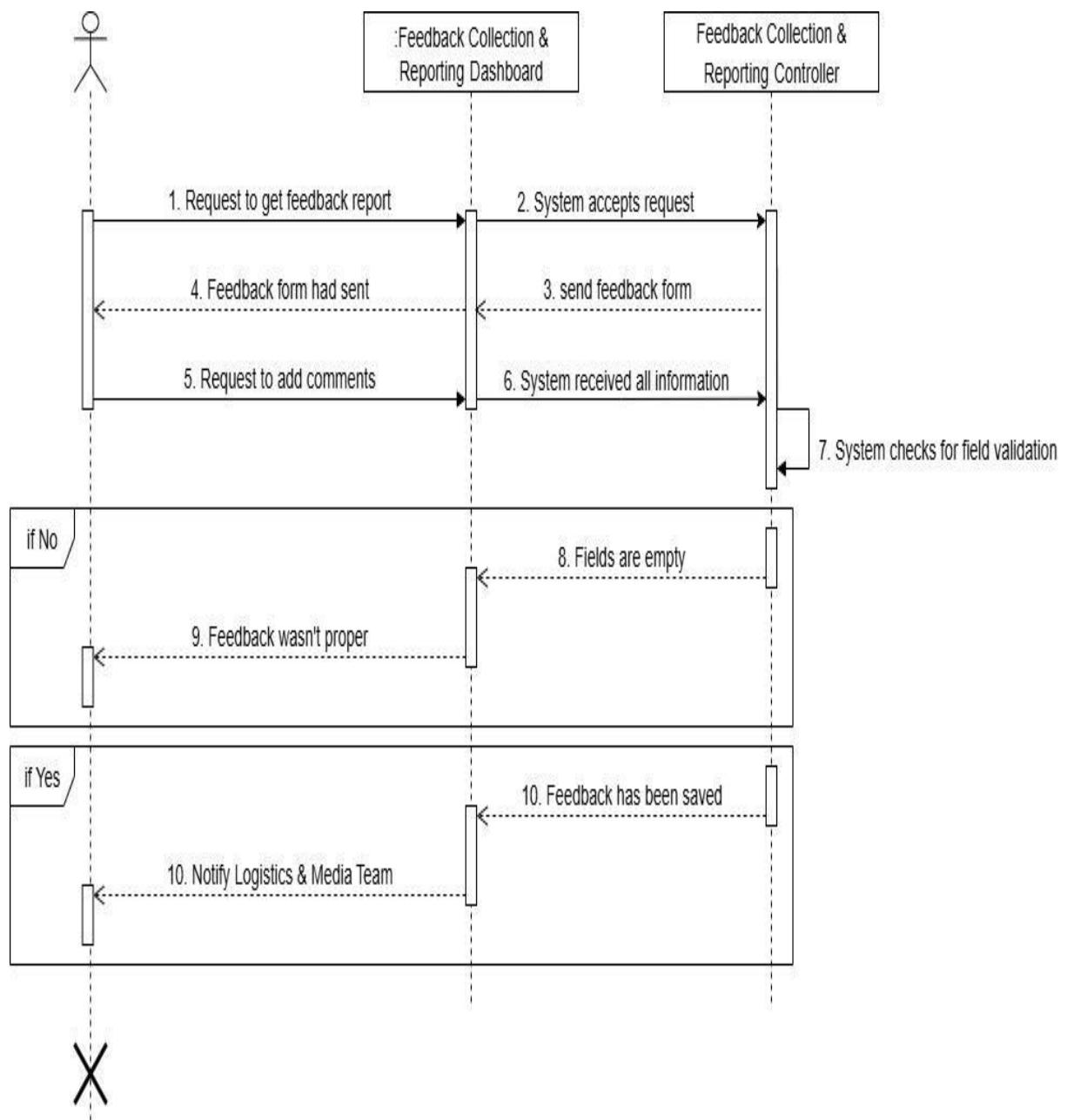
Sequence Diagram - 06: Volunteer Registration & Assignment



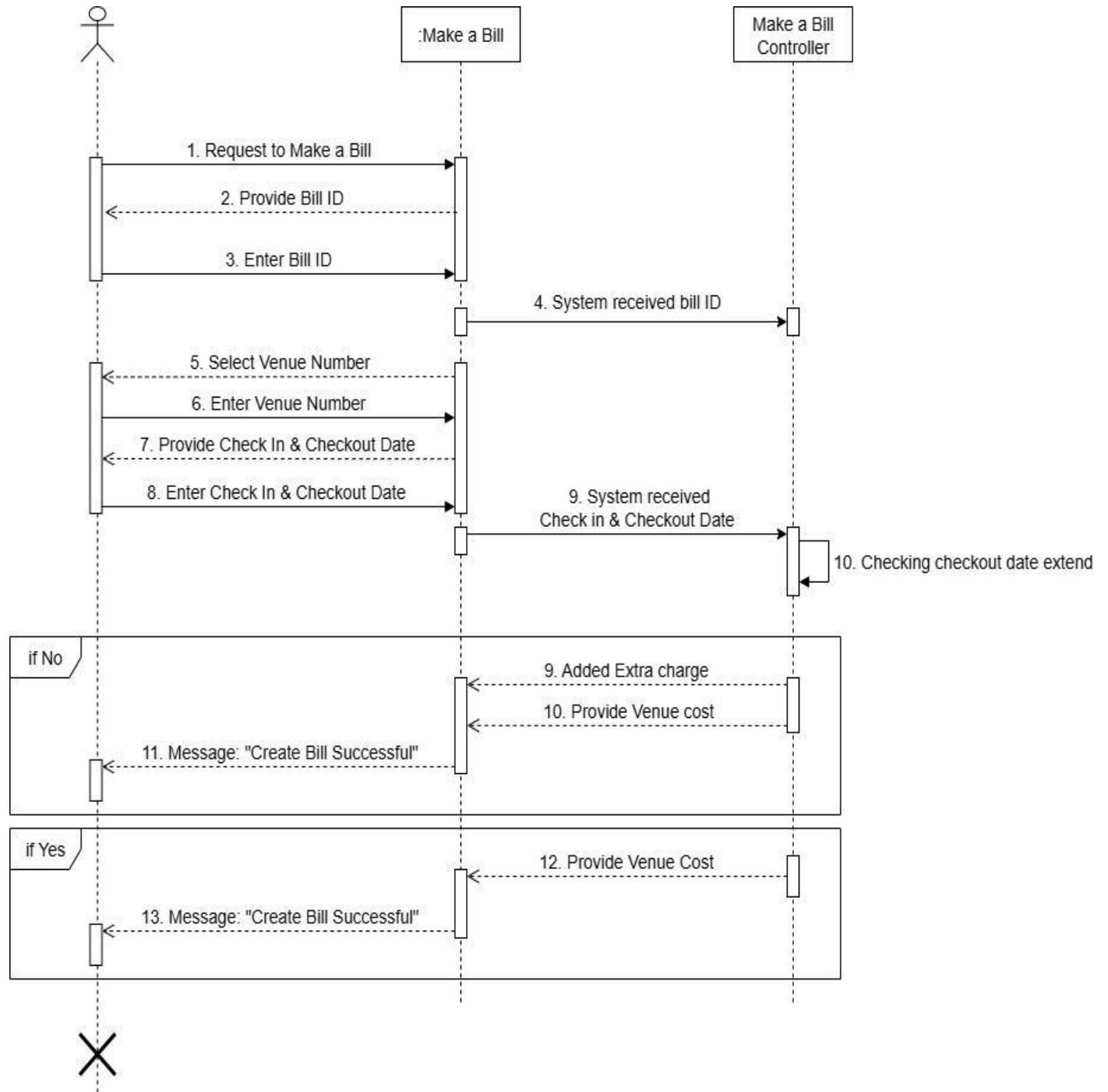
Sequence Diagram - 07: Task Coordination & Progress Tracking



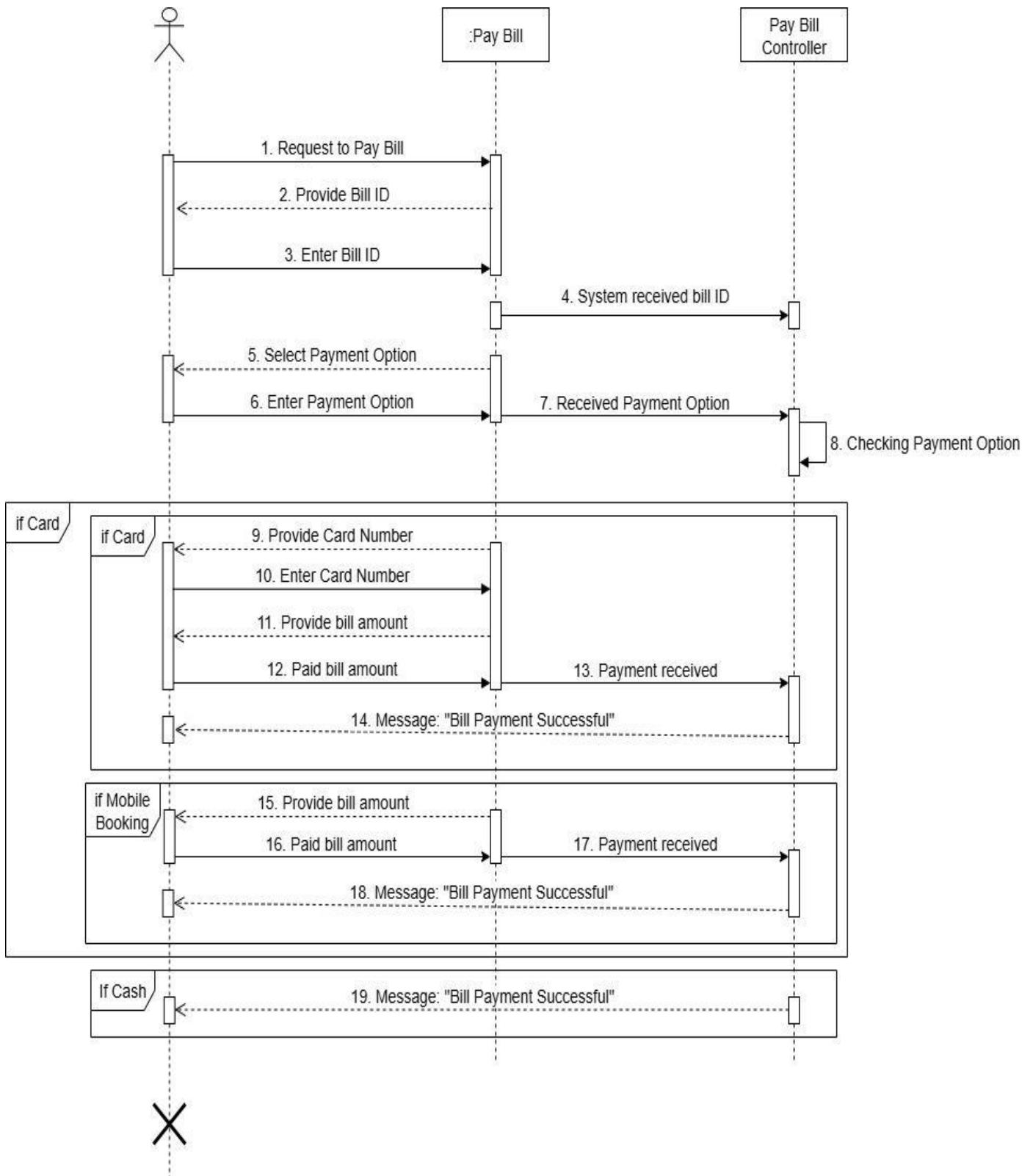
Sequence Diagram - 08: Feedback Collection & Reporting



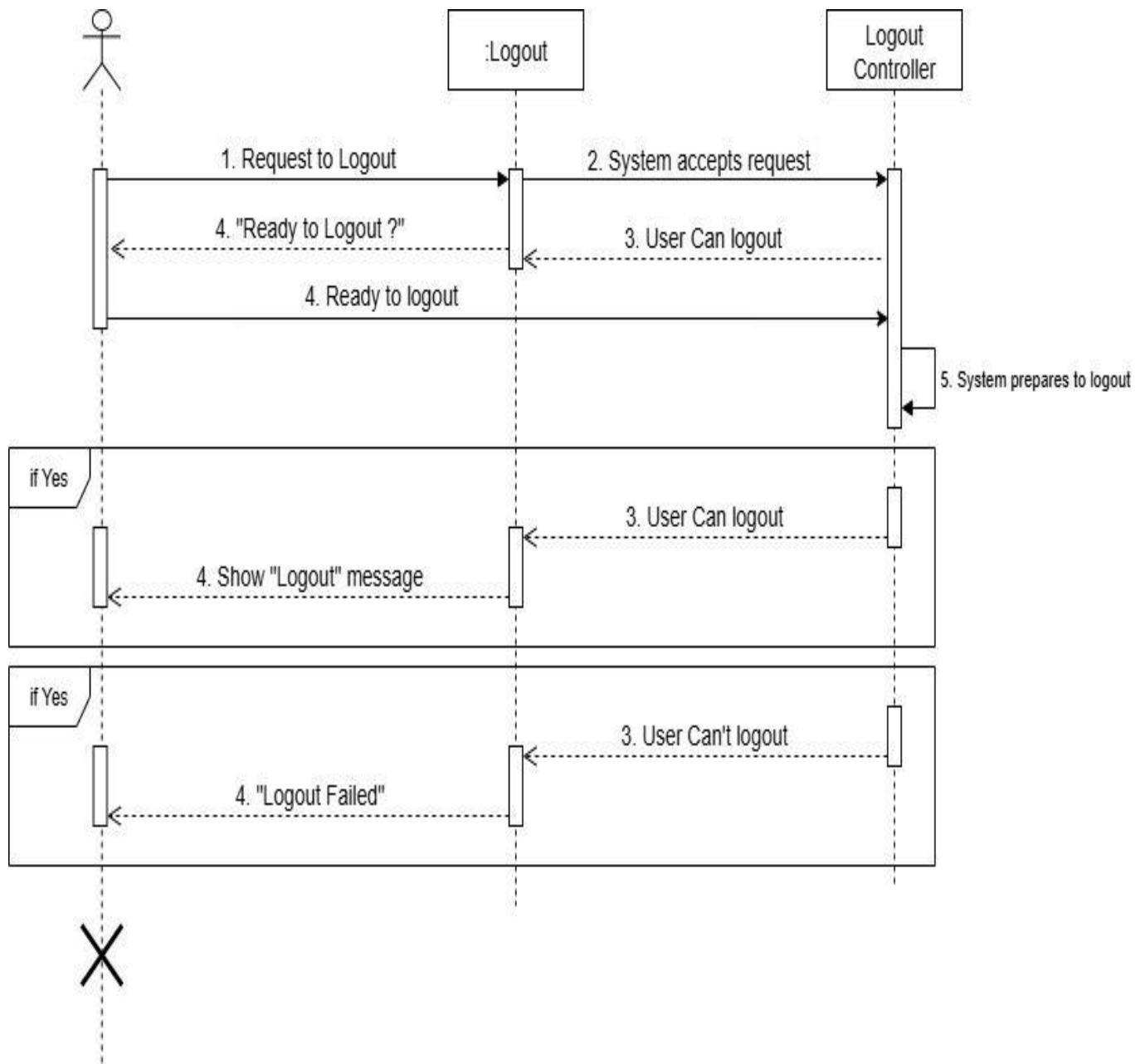
Sequence Diagram - 09 : Make a Bill



Sequence Diagram - 10: Pay Bill

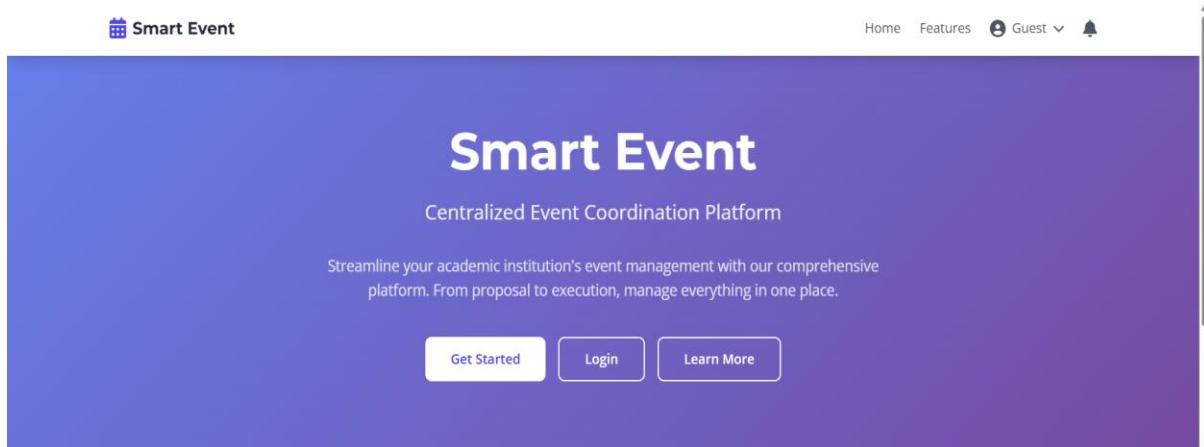


Sequence Diagram - 11: Logout



System Demo:

Link: <https://smartevent.my.canva.site/smart-event-coordination-platform-overview>



Key Features

Everything you need to manage events efficiently

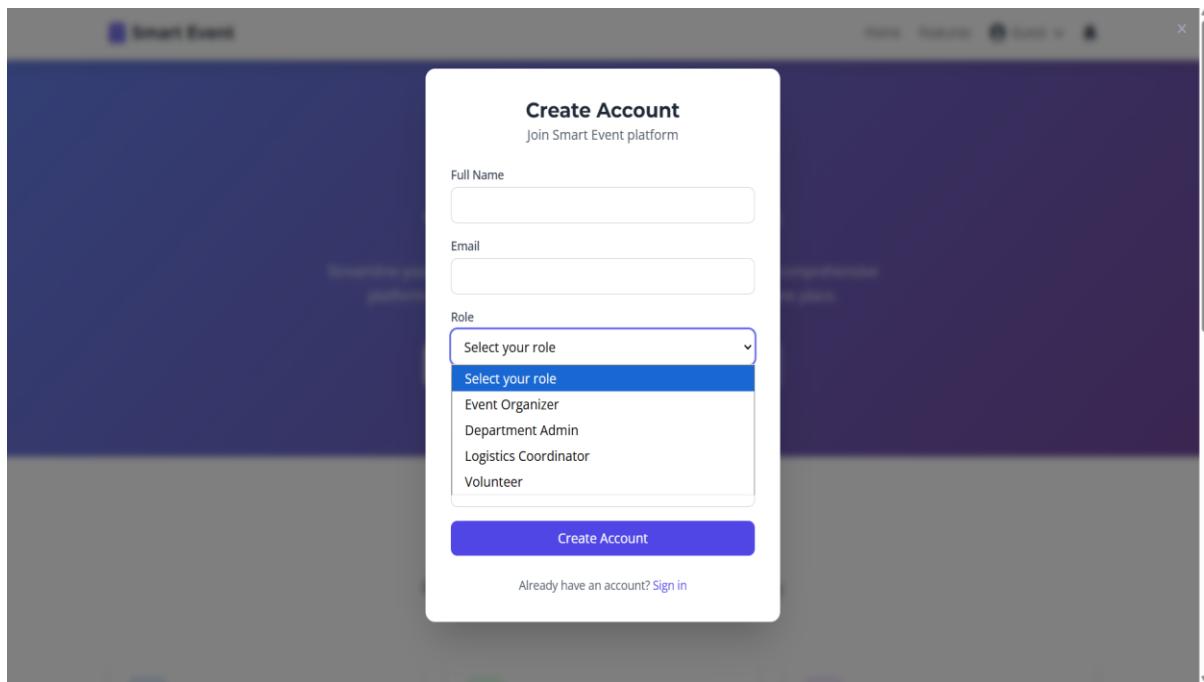
This section displays six key features of the platform, each in its own rounded rectangular box. The features are: User Registration & Authentication, Profile Management, Role-Based Access, Event Proposals, Venue Booking, and Task Management. Each feature includes an icon and a brief description.

The image displays the Smart Event Platform interface. At the top, there is a navigation bar with icons for Home, Events, Resources, Tasks, and Sign In. Below the navigation bar, a banner states "Secure registration and login with role-based access control". The main content area is divided into several sections:

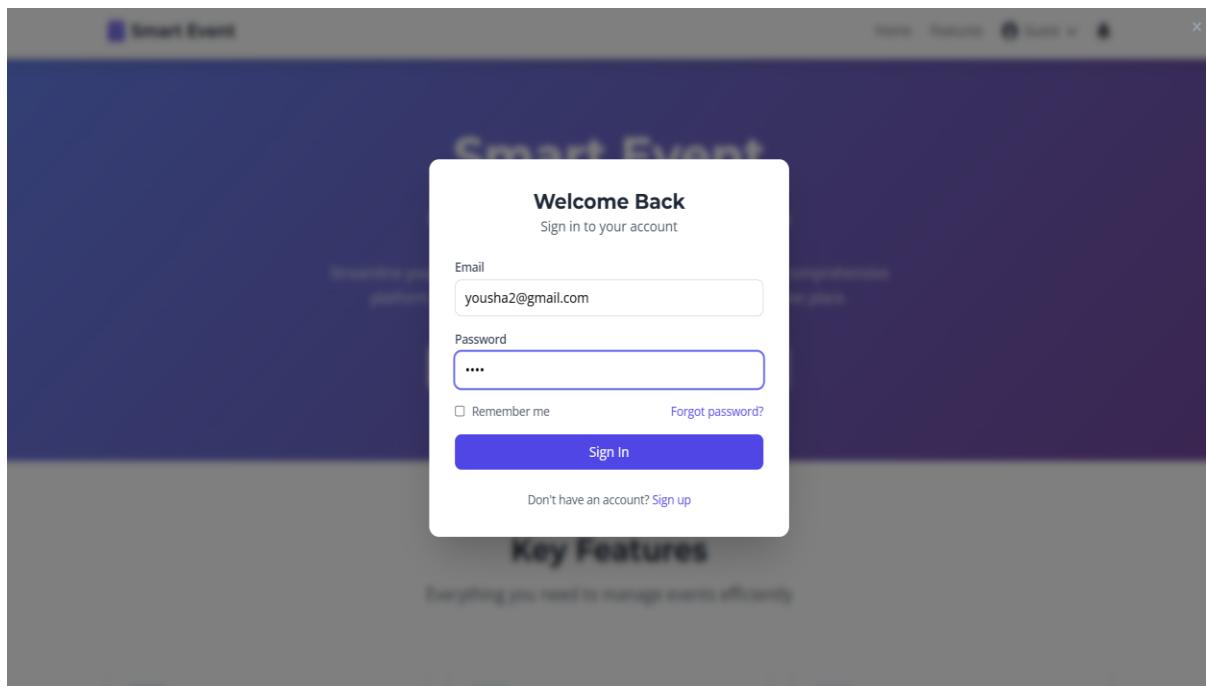
- Event Proposals**: Submit and review event proposals with approval workflow.
- Venue Booking**: Interactive calendar for venue and resource booking.
- Task Management**: Coordinate tasks and assign volunteers efficiently.

The footer contains the "Smart Event" logo, links to Features, Support, and Connect (Twitter, LinkedIn, Facebook), and a copyright notice: "© 2024 Smart Event Platform. All rights reserved."

A modal window titled "Create Account" is open in the center, prompting the user to "Join Smart Event platform". It includes fields for Full Name, Email, Role (a dropdown menu), Password, and Confirm Password, along with a "Create Account" button and a link to "Sign in".



A screenshot of the "Smart Event" dashboard. On the left is a sidebar with icons for Overview, Create Event, My Events, Tasks, Volunteers, and Profile. The main area is titled "Dashboard Overview" and shows a welcome message "Welcome back, nadim!". It features four cards: "Total Events 12" with a gift icon, "Pending Approvals 3" with a clock icon, "Active Tasks 8" with a checklist icon, and "Volunteers 24" with a people icon. Below these are two sections: "Recent Events" listing "Tech Conference 2024" (approved), "Student Workshop" (pending), and "Alumni Meetup" (approved); and "Upcoming Tasks" listing "Setup Audio Equipment" (in-progress), "Prepare Welcome Banners" (completed), and "Coordinate Catering" (pending). A green notification bar at the top right says "Registration successful!".

A screenshot of the 'Smart Event' dashboard. The top navigation bar includes 'Smart Event', 'Home', 'Features', a user profile for 'nadim2480', and a green notification bubble saying 'Login successful!'. The left sidebar has links for 'Overview', 'Available Events', 'My Tasks', and 'Profile'. The main area is titled 'Dashboard Overview' and shows 'Recent Events' and 'Upcoming Tasks'.

Recent Events

- Tech Conference 2024
2024-03-15 approved
- Student Workshop
2024-03-20 pending
- Alumni Meetup
2024-03-25 approved

Upcoming Tasks

- Setup Audio Equipment
Due: 2024-03-14 in-progress
- Prepare Welcome Banners
Due: 2024-03-13 completed
- Coordinate Catering
Due: 2024-03-15 pending

Smart Event**Dashboard Overview**

Welcome back, yousha!

- [🕒 Overview](#)
- [📄 Review Proposals](#)
- [📊 Analytics](#)
- [📅 All Events](#)
- [👤 User Management](#)
- [👤 Profile](#)

Total Events
12Pending Approvals
3Active Tasks
8Volunteers
24**Recent Events**Tech Conference 2024
2024-03-15

approved

Student Workshop
2024-03-20

pending

Alumni Meetup
2024-03-25

approved

Upcoming TasksSetup Audio Equipment
Due: 2024-03-14

in-progress

Prepare Welcome Banners
Due: 2024-03-13

completed

Coordinate Catering
Due: 2024-03-15

pending

Smart Event**Review Proposals**

Approve or reject event proposals

- [🕒 Overview](#)
- [📄 Review Proposals](#)
- [📊 Analytics](#)
- [📅 All Events](#)
- [👤 User Management](#)
- [👤 Profile](#)

Student WorkshopSubmitted by Jane Smith
Proposed date: 2024-03-20

Pending Review

Event Description

A comprehensive technology conference featuring industry leaders and innovative solutions for the future of education.

Expected Attendees
150Budget Estimate
\$5,000Duration
6 hours**Review Comments**

Add your review comments...

Reject

Approve

 Smart Event

-  Overview
-  Review Proposals
-  Analytics
-  All Events
-  User Management
-  Profile

Analytics Dashboard

Event performance and insights

Total Events

156

+12% from last month



Approval Rate

87%

+5% from last month



Active Volunteers

342

+18% from last month



Avg. Attendance

89%

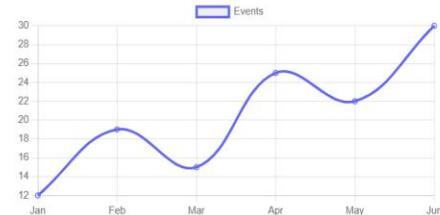
-2% from last month



Event Status Distribution



Monthly Event Trends



Export Reports

Export CSV

Export PDF

 Smart Event

-  Overview
-  Review Proposals
-  Analytics
-  All Events
-  User Management
-  Profile

All Events

Manage your account information

Total Events

12

Pending Approvals

3

Active Tasks

8

Volunteers

24

Recent Events

Tech Conference 2024
2024-03-15

approved

Student Workshop
2024-03-20

pending

Alumni Meetup
2024-03-25

approved

Upcoming Tasks

Setup Audio Equipment
Due: 2024-03-14

in-progress

Prepare Welcome Banners
Due: 2024-03-13

completed

Coordinate Catering
Due: 2024-03-15

pending

Smart Event

Profile Settings

Manage your account information



yousha
 admin
[Change Photo](#)

Full Name	Email
yousha	yousha2480@gmial.com
Phone Number	
Department	
Computer Science	
Bio	
Tell us about yourself...	

Smart Event

Dashboard Overview

Welcome back, yousha!

Total Events
12

Pending Approvals
3

Active Tasks
8

Recent Events

- Tech Conference 2024
2024-03-15 approved
- Student Workshop
2024-03-20 pending
- Alumni Meetup
2024-03-25 approved

Upcoming Tasks

- Setup Audio Equipment
Due: 2024-03-14
- Prepare Welcome Banners
Due: 2024-03-13
- Coordinate Catering
Due: 2024-03-15 pending

Notifications

- Event Proposal Approved
Your "Tech Conference 2024" proposal has been approved
2 hours ago
- Venue Booked Successfully
Main Auditorium reserved for March 15, 2024
1 day ago
- Task Deadline Approaching
Setup equipment task due in 2 days
3 days ago

Smart Event

-  Overview
-  Create Event
-  My Events
-  Tasks
-  Volunteers
-  Profile

Create New Event

Submit a new event proposal

Event Title	Event Category	
<input type="text"/>	<input type="button" value="Select category"/>	
Description		
<input type="text"/>		
Event Date	Start Time	End Time
<input type="text"/> mm/dd/yyyy 	<input type="text"/> : : 	<input type="text"/> : : 
Expected Attendees	Budget Estimate	
Attachments		
 Drag and drop files here or click to browse		

Smart Event

-  Overview
-  Create Event
-  My Events
-  Tasks
-  Volunteers
-  Profile

My Events

Manage your event proposals

My Event Proposals			
EVENT	DATE	STATUS	ACTIONS
Tech Conference 2024 Organized by John Doe	2024-03-15	approved	Edit Delete
Student Workshop Organized by Jane Smith	2024-03-20	pending	Edit Delete
Alumni Meetup Organized by Mike Johnson	2024-03-25	approved	Edit Delete

Smart Event Overview Venue Booking Resources Equipment Profile**Venue Calendar**

Sun Mon Tue Wed Thu Fri Sat

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Available Venues

Main Auditorium

Capacity: 300 people

Conference Room A

Capacity: 50 people

Outdoor Pavilion

Capacity: 200 people

Quick Book

Venue

Main Auditorium

Date

mm/dd/yyyy

Start

--:--

End

--:--

Book Venue**Smart Event****Dashboard Overview**

Welcome back, yousha!

 Overview Available Events My Tasks Profile**Recent Events**Tech Conference 2024
2024-03-15

approved

Student Workshop
2024-03-20

pending

Alumni Meetup
2024-03-25

approved

Upcoming TasksSetup Audio Equipment
Due: 2024-03-14

in-progress

Prepare Welcome Banners
Due: 2024-03-13

completed

Coordinate Catering
Due: 2024-03-15

pending

---- The End ----