

EVENTIQUE

Kafrelsheikh University | 2024

Project

Eventique

version

10.1

prepare by

- Nour Eldean Mahmoud
- Alaa Nader
- Abdelrahman Haron
- Ahmed Rizk
- Salma Refat
- Ahmed Hezema

Data Created

20 October 2024

TABLE OF CONTENTS

01	INTRODUCTION <ul style="list-style-type: none">• PURPOSE• SCOPE• DEFINITIONS, ACRONYMS, AND ABBREVIATIONS• REFERENCE
02	OVERALL DESCRIPTION <ul style="list-style-type: none">• PRODUCT FUNCTIONS• USER CLASSES AND CHARACTERISTICS
03	NON-FUNCTIONAL REQUIREMENTS
04	EXTERNAL INTERFACES <ul style="list-style-type: none">• USER INTERFACES• SOFTWARE INTERFACES
05	SYSTEM FEATURES <ul style="list-style-type: none">• FEATURE LIST• PRIORITY OF FEATURES
06	APPENDICES

REVISION HISTORY

name	date	reason for change	version
Nour Eldean Mahmoud	25 October 2024	To add some missing items	10
Alaa Nader	30 October 2024	To modify some user services	10.1

INTRODUCTION

Welcome to Eventique your ultimate destination for seamless event planning and unforgettable experiences! We specialize in bringing people together through well-organized, innovative, and engaging events tailored to meet diverse needs, whether you're planning a corporate conference, a community gathering, or a social celebration. Let's make every event extraordinary, together!



SCOPE

● Objective 1

The Event Management System is a web-based platform designed to facilitate end-to-end event management. It supports organizers in creating events, managing registrations, processing payments, and providing real-time updates to attendees.

● Objective 2

Additionally, it offers features like automated notifications, feedback collection, and detailed analytics to evaluate event performance. The system will cater to various types of events, such as conferences, workshops, concerts, and community gatherings.

DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

EMS

Event Management System

UI

User Interface

API

Application Programming Interface

GDPR

General Data Protection Regulation

CRM

Customer Relationship Management

Attendee

A participant who registers for an event.

Organizer

A user responsible for creating and managing events.

REFERENCE



**IEEE Standard 830-1998:
Recommended Practice for
Software Requirements
Specifications.**

reference n°1



**Sample Event
Management Systems:
[Insert relevant links or
examples].**

reference n°2



**Official documentation
for ASP.NET Web Forms.**

reference n°3

OVERALL DESCRIPTION

...

FUNCTIONAL REQUIREMENTS

01

User Management

- **User Registration and Login:** Users should be able to register and log in with email, password, or social media.
- **Roles and Permissions:** Support different user roles, such as Organizer, Attendee, Sponsor, Volunteer, etc.
- **Profile Management:** Users can edit their profiles with personal information and preferences

02

Event Creation and Management

- **Event Setup:** Organizers can create events with details like title, description, date, time, location, and type (in-person/online).
- **Agenda Planning:** Allows adding agenda items, speakers, and session details.
- **Registration Management:** Supports attendee registration, waitlists, and ticketing options.
- **Venue Management:** For in-person events, manage venue details, including seating arrangements, capacity, and floor plans.
- **User can choose a pre-made package with its details like price, features, photos, decoration, and themes.**

FUNCTIONAL REQUIREMENTS

03

Ticketing and Payment

- **Ticketing:** Enables ticket creation with options for different types (e.g., General Admission, VIP, etc.), pricing, and limits.
- **Payment Integration:** Integrates payment gateways (e.g., Stripe, PayPal) for secure online transactions.
- **Discounts and Promotions:** Allows adding discount codes, early-bird pricing, and group discounts.

04

Communication and Notifications

- **Email and SMS Notifications:** Automated alerts for registration confirmation, reminders, and updates.
- **Push Notifications:** For mobile apps, send reminders and announcements.
- **Messaging:** Enables in-app or email messaging between attendees and organizers.

05

Check-in and Attendance

- **QR Code Generation:** Generate QR codes for attendees for quick check-in.
- **Attendance Tracking:** Track attendance through check-in and check-out features.
- **Badge Printing:** Supports print

FUNCTIONAL REQUIREMENTS

06

Reports and Exports

- **Data Export:** Export attendee lists, financial data, and event details in formats like CSV or PDF.
- **Report Generation:** Create reports on event performance, financials, and attendance.

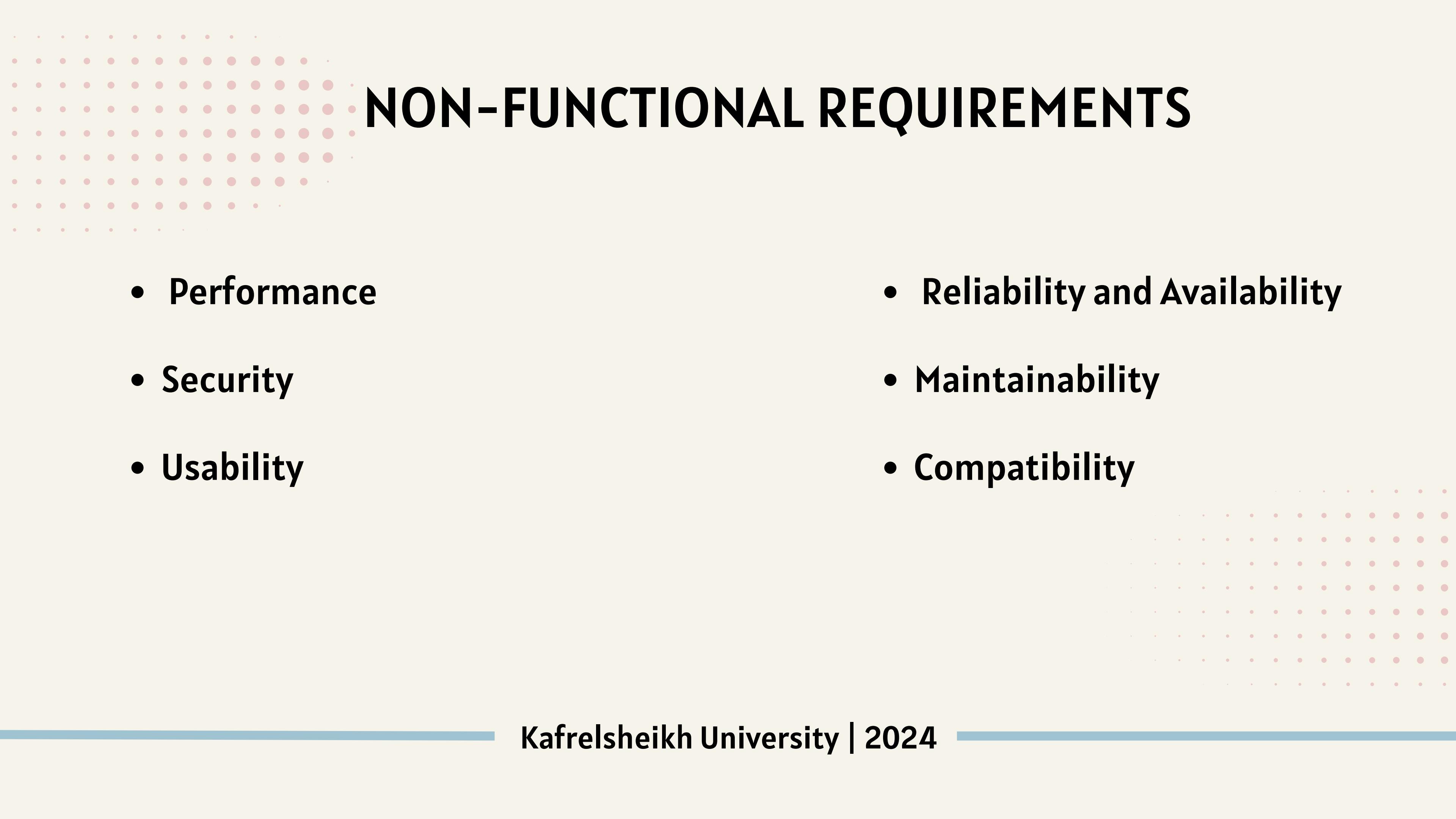
07

Admin Capabilities

- Can add other admin using a form.
- Can show all users in the system and do CRUD operations on them.
- Can show all pre-made packages and do CRUD operations on the

NON-FUNCTIONAL REQUIREMENTS

...



NON-FUNCTIONAL REQUIREMENTS

- Performance
- Security
- Usability
- Reliability and Availability
- Maintainability
- Compatibility

Scalability: The system should handle large numbers of simultaneous users, especially during registration periods.

- **Fast Loading Times:** Pages should load within 2 seconds for optimal user experience.

Performance

- **Data Encryption:** Secure sensitive data using encryption (e.g., HTTPS, SSL/TLS).
- **Access Control:** Ensure role-based access to different system features.
- **Compliance:** Adhere to data protection standards (e.g., GDPR).

Responsive Design:

The system should be accessible on desktops, tablets, and mobile devices.

- User-Friendly Interface:

Simple and intuitive UI/UX to facilitate easy navigation. -

Security

Usability

Reliability and Availability

- **99.9% Uptime:** The system should be available at all times with minimal downtime.
- **Backup and Recovery:** Regular data backups and a disaster recovery plan in case of failures.

- Modular Architecture:

Adopt modular code to facilitate updates and maintenance.

- Documentation:

Comprehensive documentation for developers, administrators, and end-users.

Maintainability

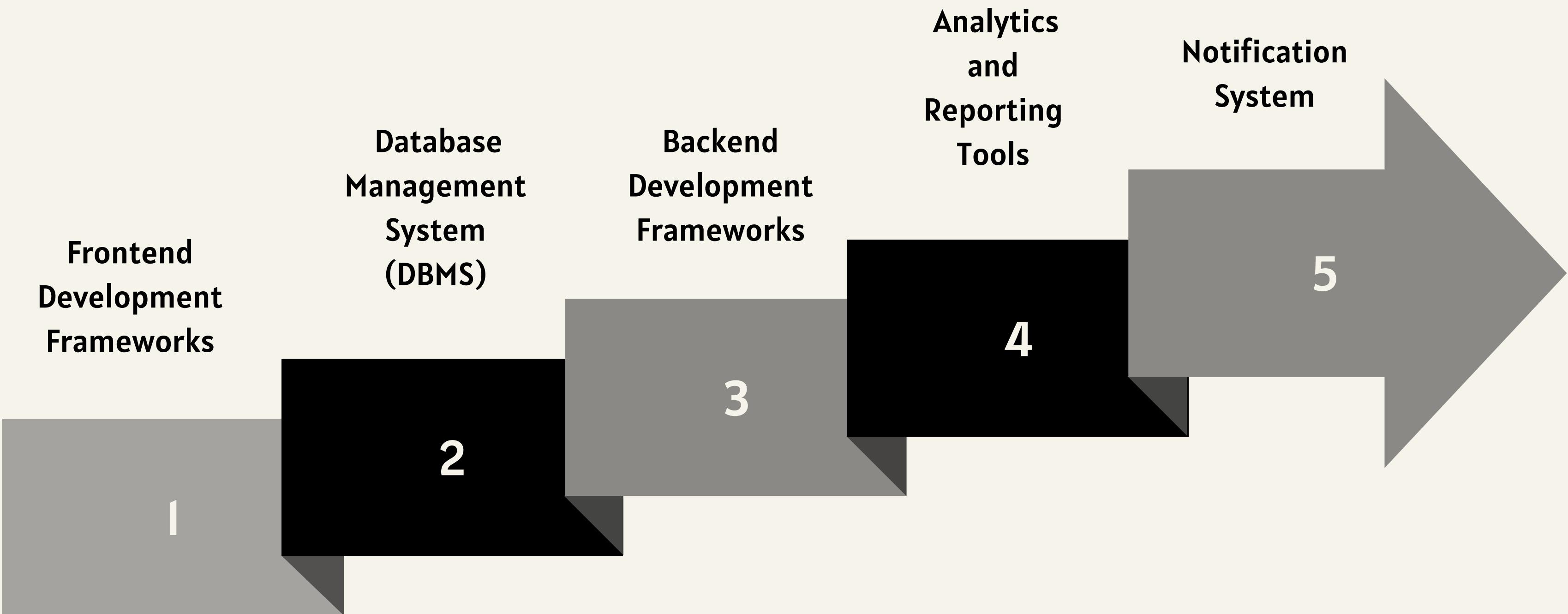
Compatibility

- **Browser Compatibility:** Supports popular browsers (Chrome, Firefox, Safari, Edge).
- **Integration with External Tools:** Integrate with CRM systems, marketing tools, and analytics platforms.

EXTERNAL INTERFACES

...

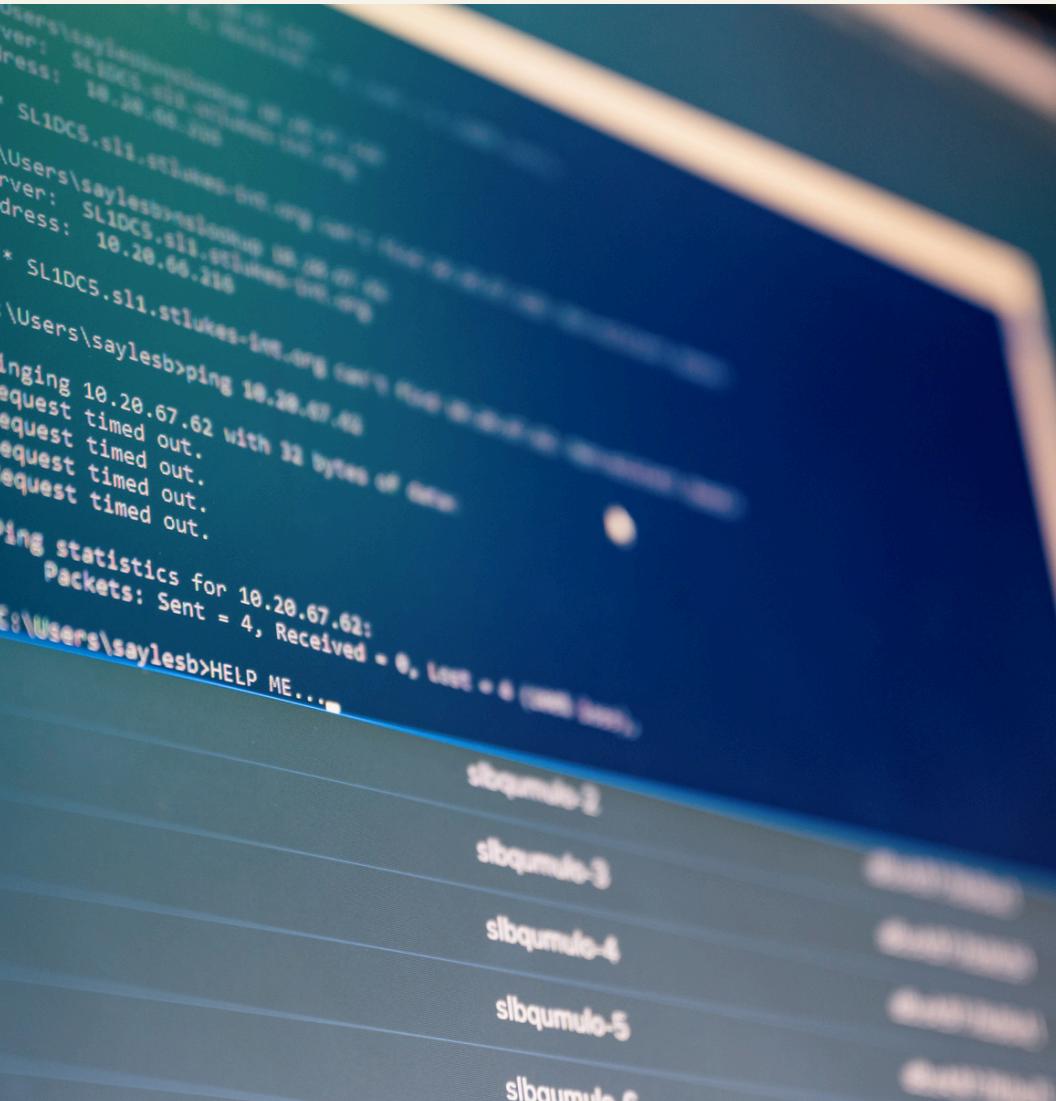
System Requirements for User Authentication System



FRONTEND DEVELOPMENT FRAMEWORKS

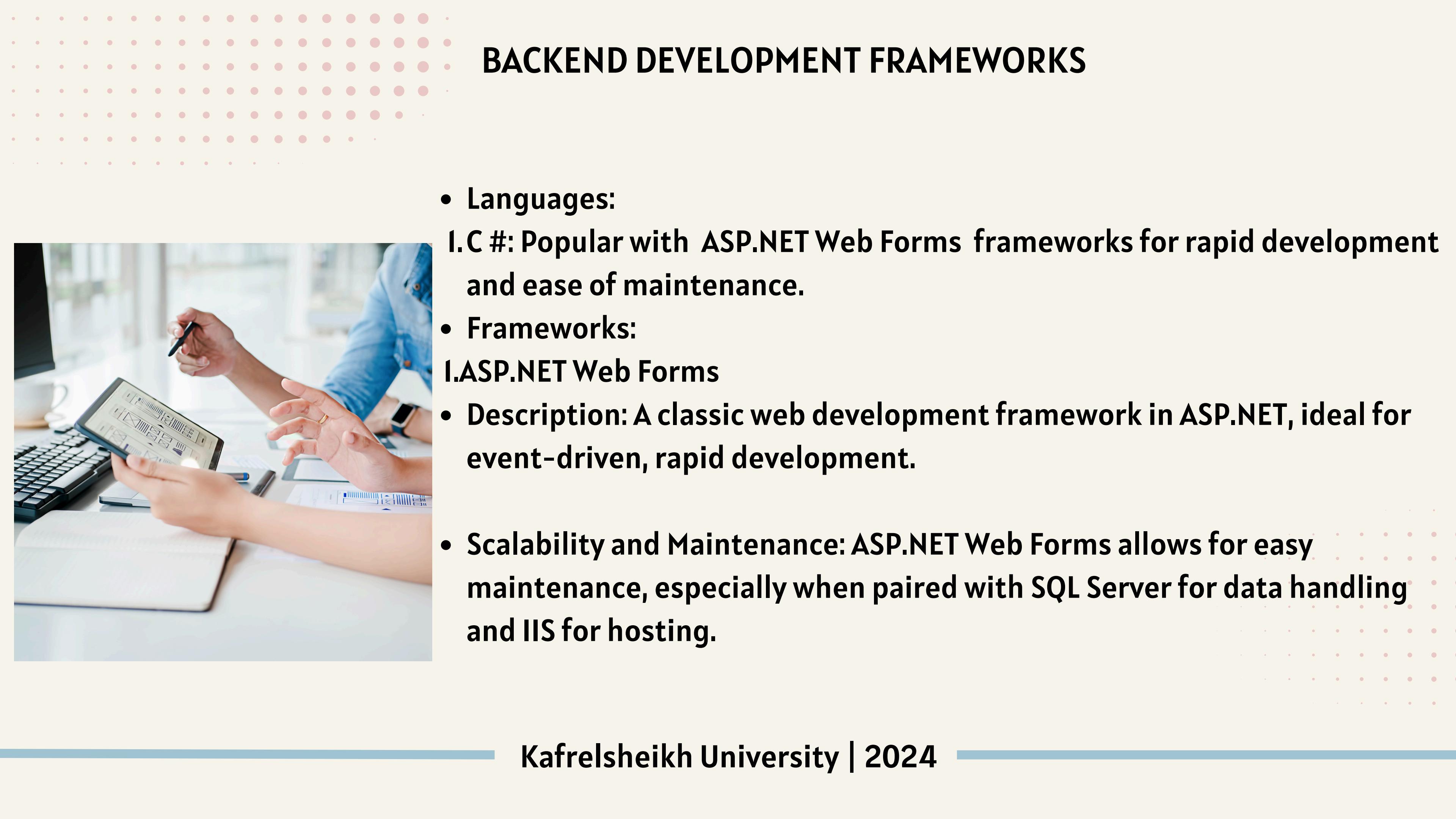


- **HTML, CSS, JavaScript: Core technologies for web development.**
- **CSS Frameworks:**
Bootstrap or Tailwind CSS for responsive design and fast UI development.
- **JavaScript Frameworks:**
React: Good for interactive and dynamic UIs.



DATABASE MANAGEMENT SYSTEM (DBMS)

- Relational Database:
 1. MySQL or SQLSERVER for structured data (user registrations, event details, ticket information).
 2. SQLite (for smaller setups or demo sites).'
- NoSQL Database (Optional):
 1. MongoDB for handling unstructured data, if required for dynamic content.



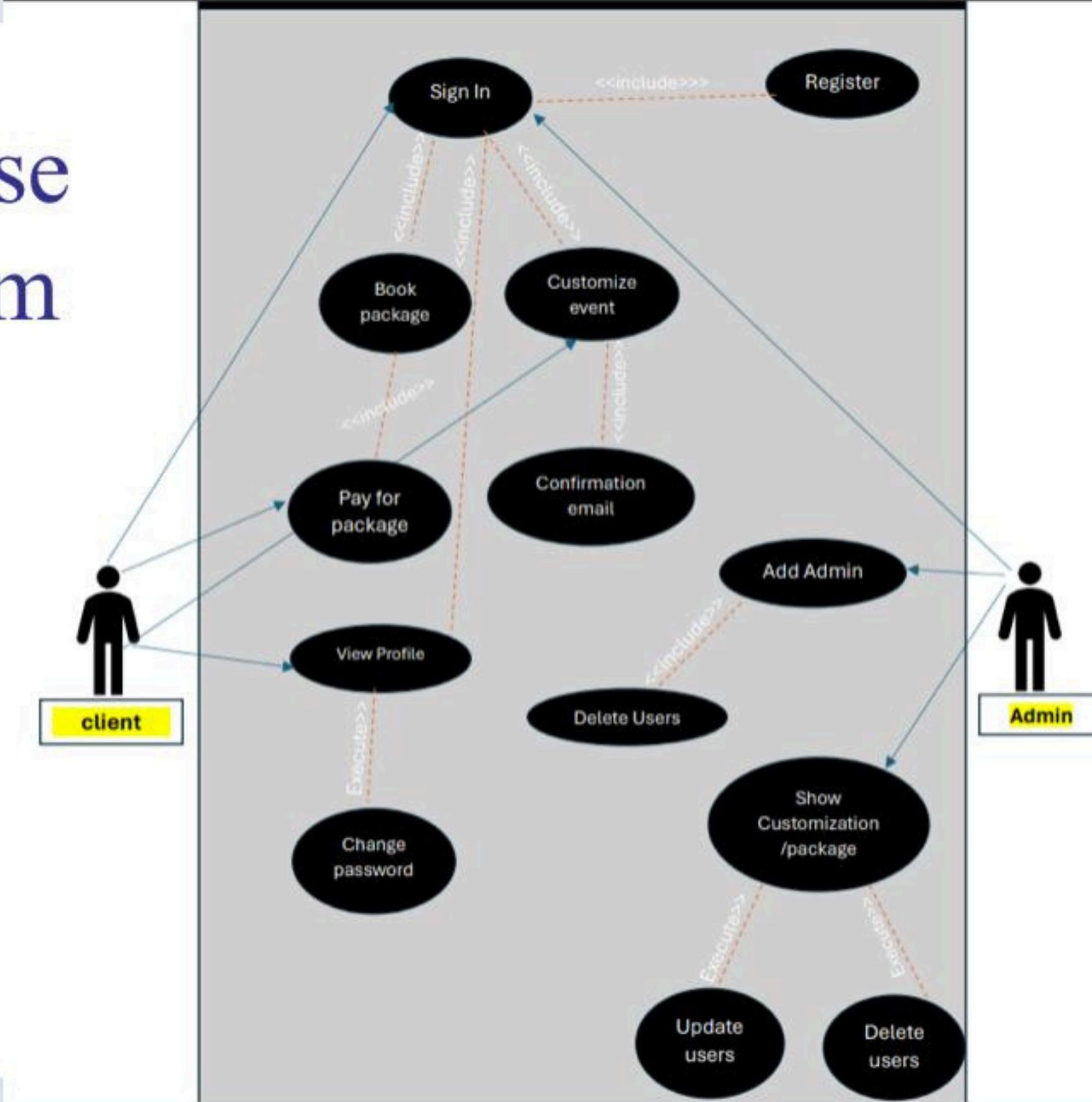
BACKEND DEVELOPMENT FRAMEWORKS



- **Languages:**
 - I.C #: Popular with ASP.NET Web Forms frameworks for rapid development and ease of maintenance.
- **Frameworks:**
 - I. **ASP.NET Web Forms**
 - **Description:** A classic web development framework in ASP.NET, ideal for event-driven, rapid development.
 - **Scalability and Maintenance:** ASP.NET Web Forms allows for easy maintenance, especially when paired with SQL Server for data handling and IIS for hosting.

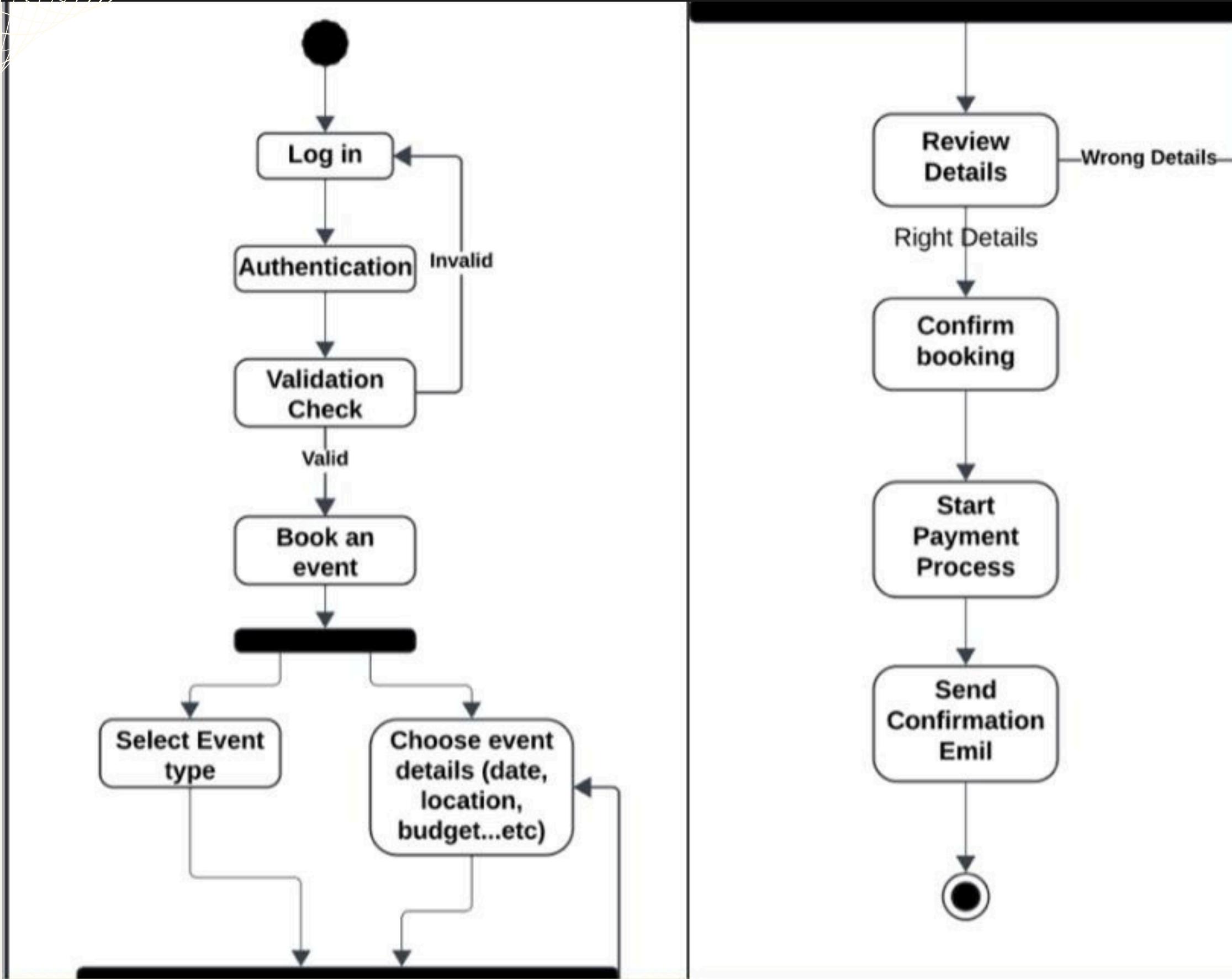
USE CASE DIAGRAMME

Use Case Diagram

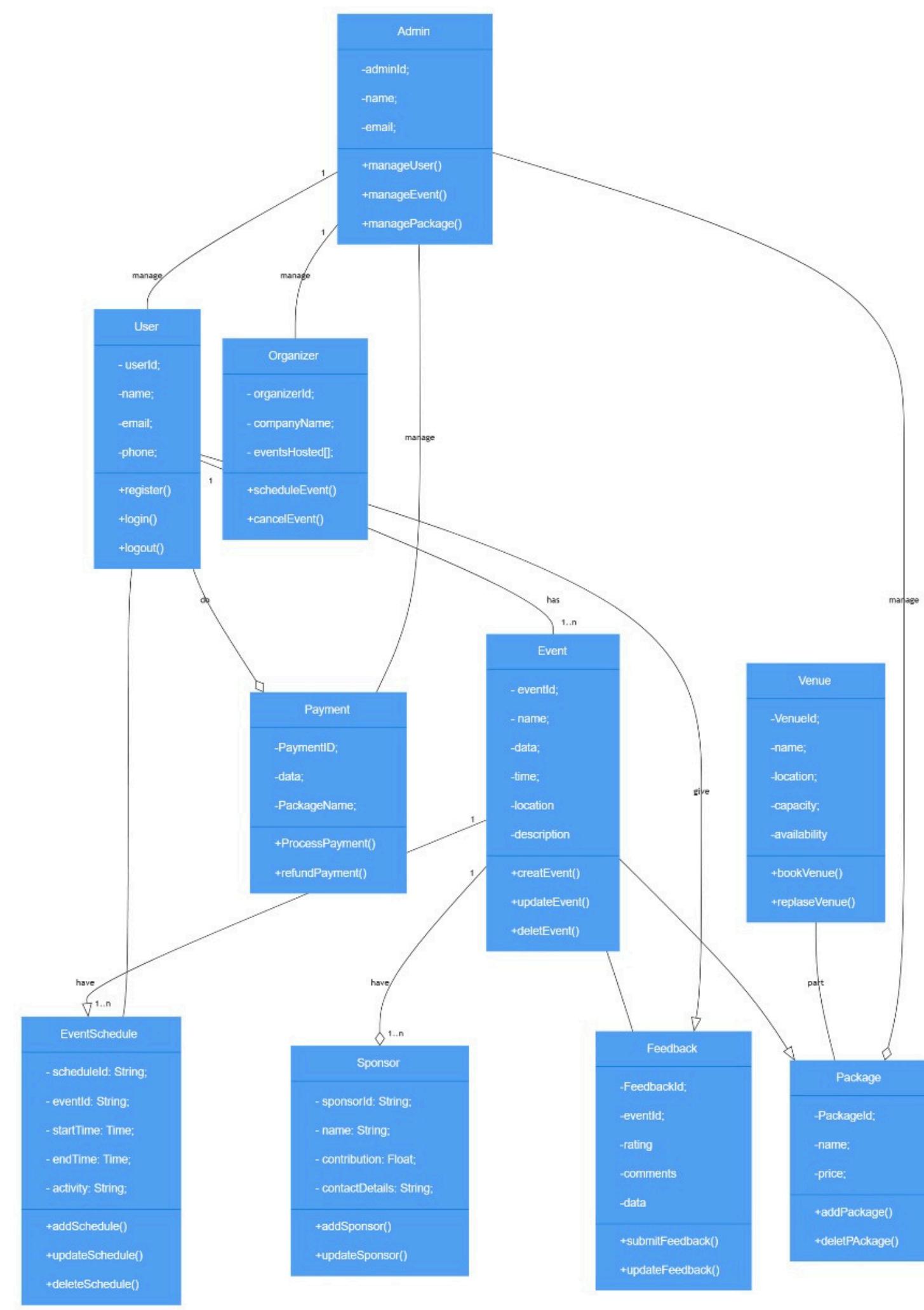


ACTIVITY DIAGRAM

Activity Diagram



CLASS DIAGRAM

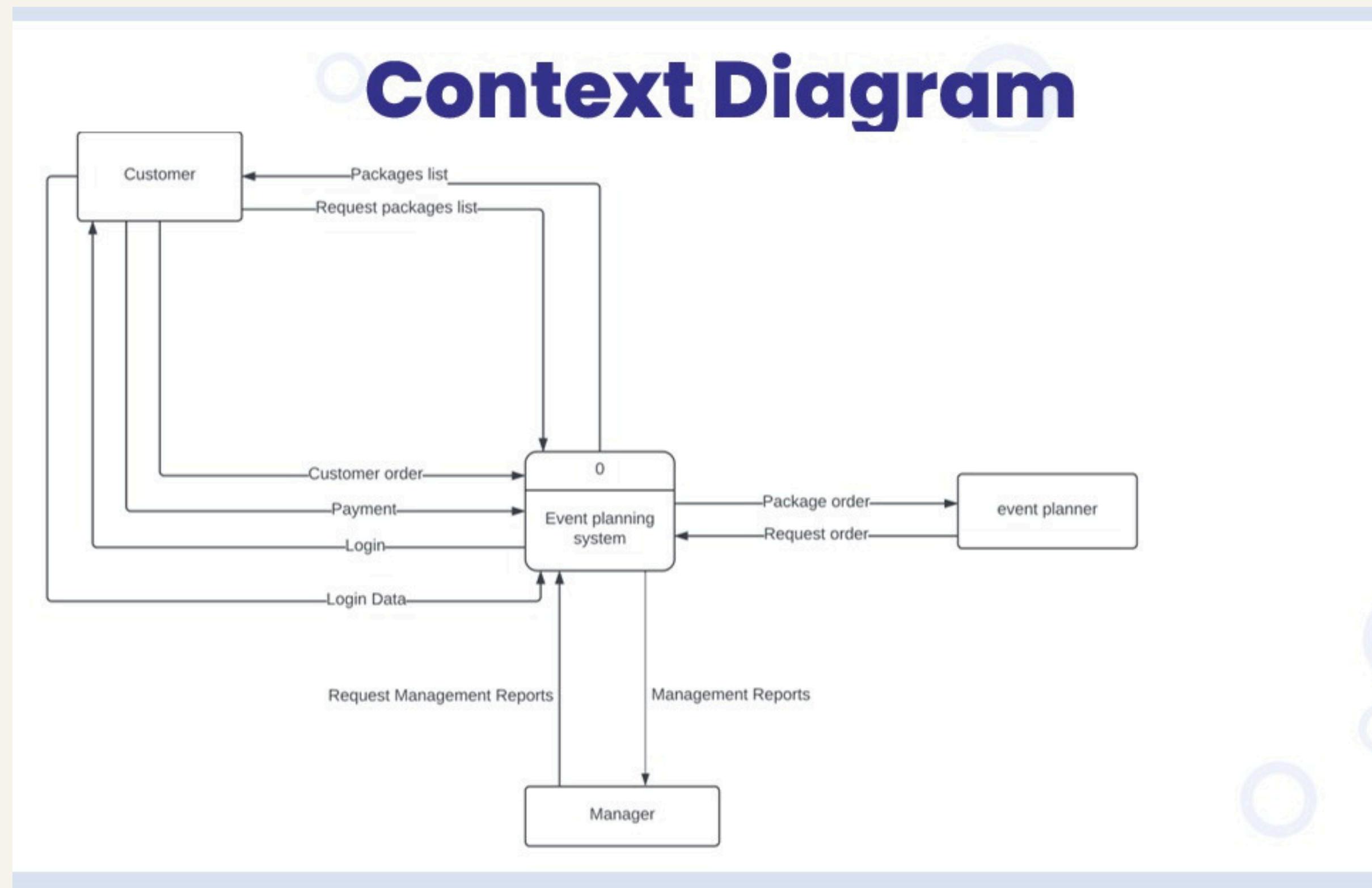


SEQUENCE DIAGRAM

Sequence Diagram

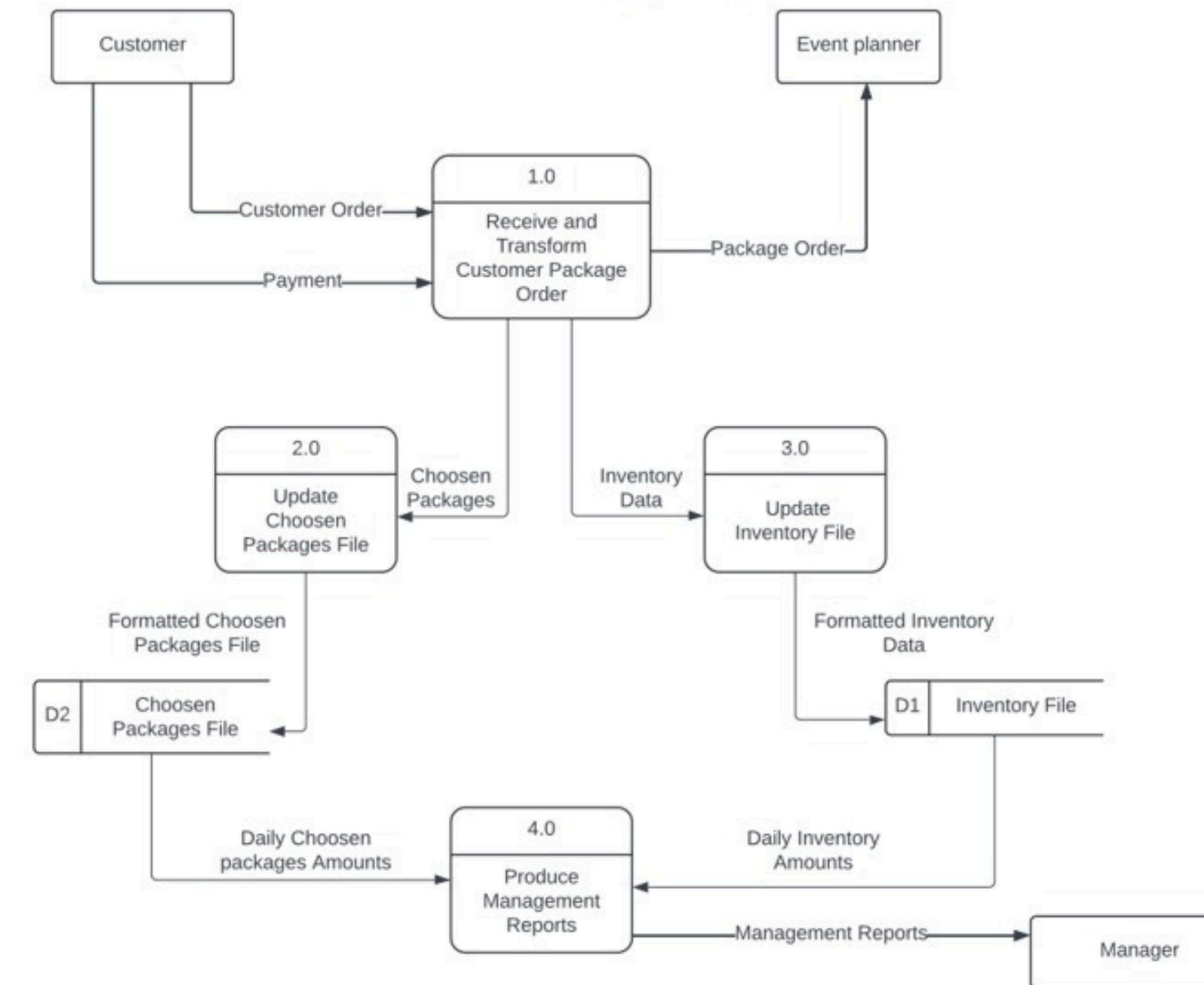


DFD CONTEXT DIAGRAM



DFD L.0

DFD LVL 0



DFD L.1

