

CAT404 SOFTWARE ENGINEERING MAJOR PROJECT

SE25260072 : SMART EVENT AUTOMATED TICKETING SYSTEM (SEAT)

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INTRODUCTION

WHAT IS SEAT ?

- A web-based event management system designed to support the organization and management of university events.
- Provides a centralized platform that connects participants, event organizers, and administrators within a single environment.
- Supports the complete event workflow, including event creation, registration, online payment processing, digital ticket issuance, attendance verification, and event monitoring.
- Utilizes QR-based digital ticketing to facilitate participant identification and event access management.

PROBLEM STATEMENT

Fragmented Registration Workflow

Lack of Real-Time Monitoring and Control

Inefficient Manual Ticketing for Reserved Seating

OBJECTIVES

1

To develop a web-based system that automates event registration, payment, and e-ticket generation for USM student organizations

2

To reduce paper ticket usage by implementing a secure QR-based e-ticketing feature.

3

To integrate analytics in the system dashboard for real-time insights on event performance and participation.

PROPOSED SOLUTION

- To develop a centralized web-based platform that streamlines the entire event management process through a single integrated system.

Key Features :

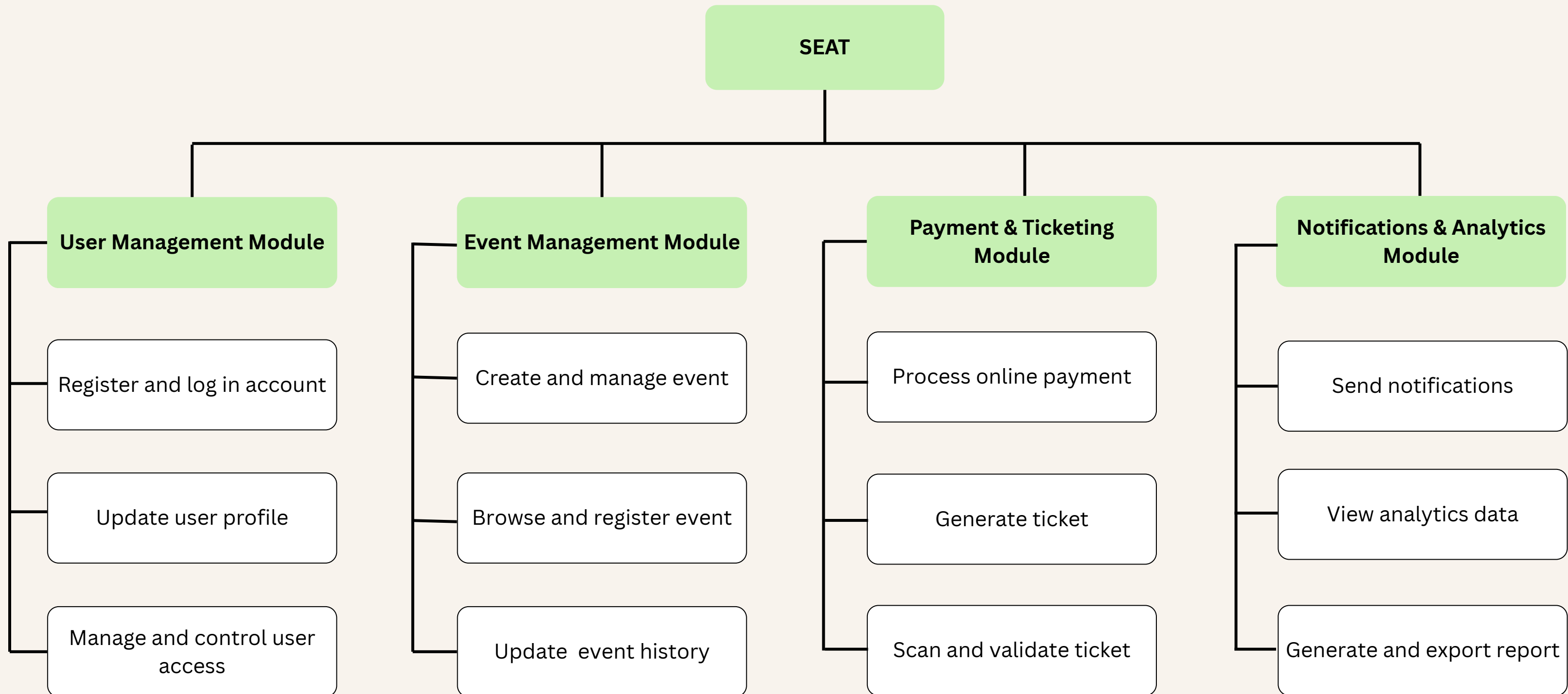
- Create and manage event listings
- Register for events online
- View and track registered events
- Process secure online payments
- Generate and receive QR-based e-tickets
- Verify attendance through QR scanning
- Monitor event participation and analytics

Target Users

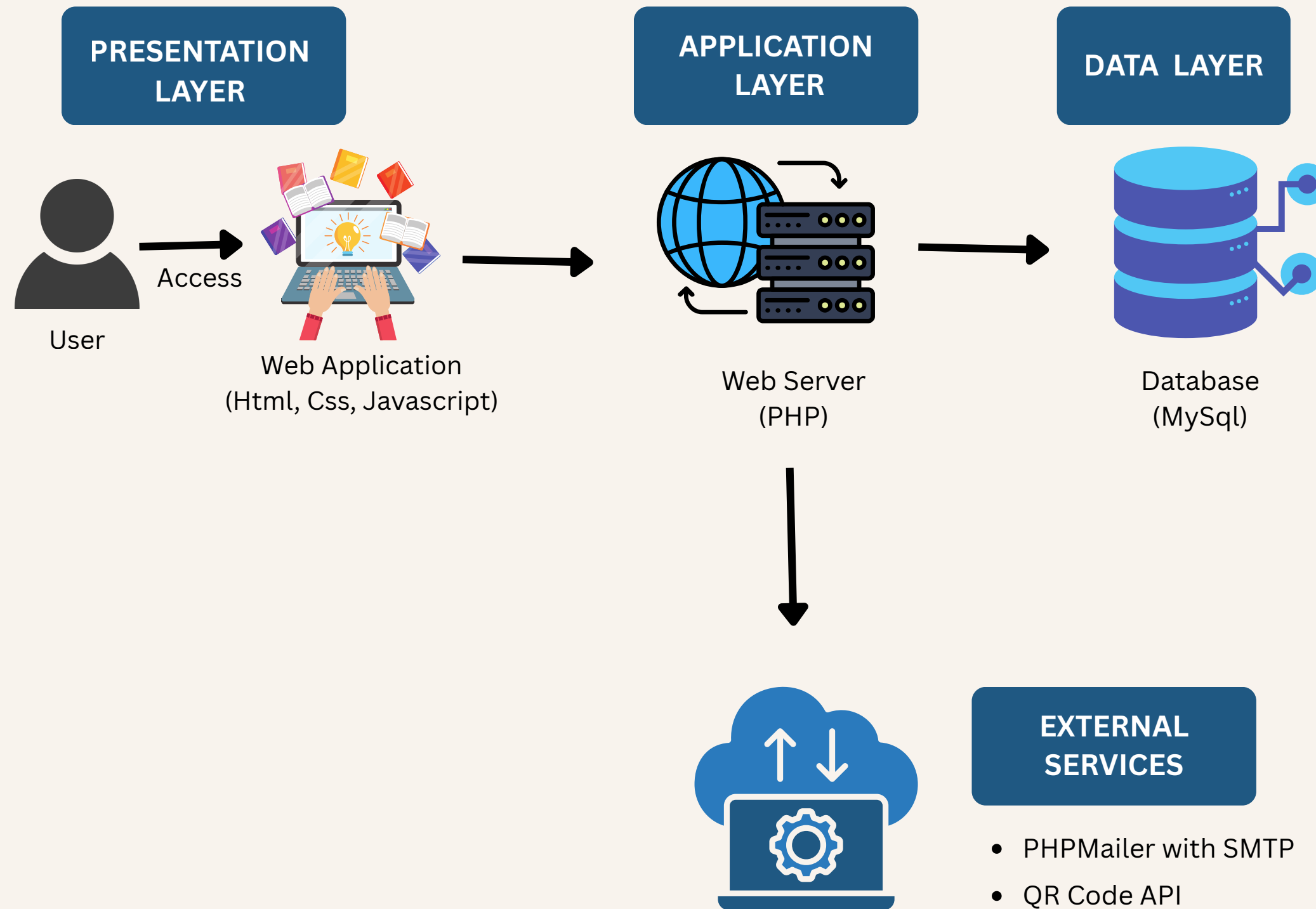
- Participants (Students / Staff)
- Event Organizers
- Administrators



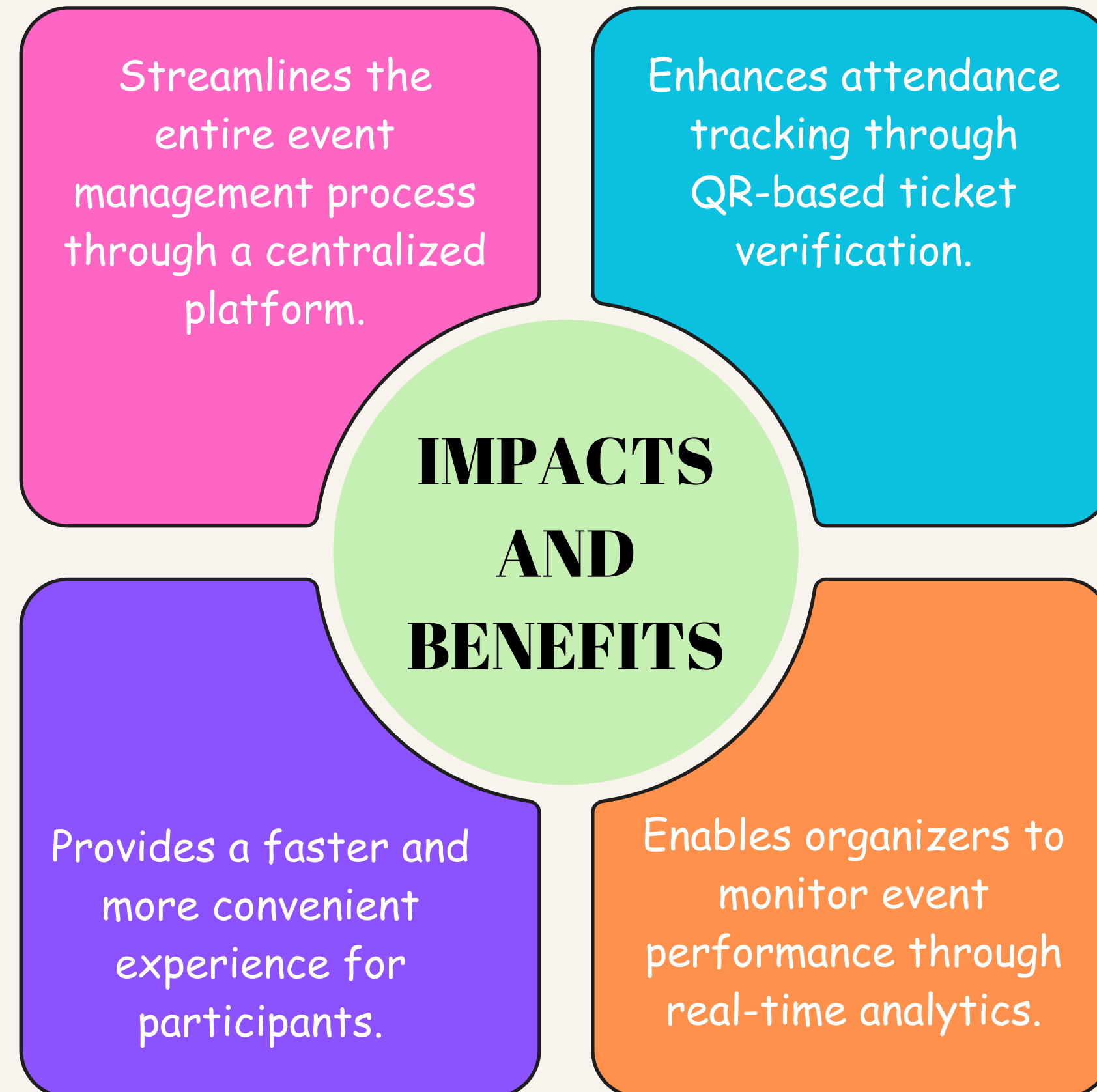
SYSTEM MODULE



SYSTEM ARCHITECTURE



IMPACTS & BENEFITS



ENTREPRENEURSHIP OPPORTUNITY



Commercialize SEAT as a subscription-based event management platform for educational institutions.



Generate revenue through premium features, analytics services, and technical support packages.



Expand the platform into a complete event ecosystem with ticketing, venue booking, sponsorship, and merchandise management.

PROJECT DEMO

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**THANK
YOU**