**Software Requirements Specification (SRS)**

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**GitHub Wiki:** <https://github.com/djgamekid/GDP-Group-I-bearcatmanager/wiki/Software-Requirements-Specification-(SRS)>

**Project Information**

**Project Charter**

*Summary of the problem:*

**Campus event organizers struggle to efficiently manage event creation, ticket sales, and attendee management, leading to disorganized events and poor attendee experiences.**

*Motivation for solving the problem (How this improves the client's workflow):*

**Implementing a comprehensive event management platform will streamline event organization, enhance attendee experience, save time with automated processes, provide valuable insights through real-time analytics, ensure data security and compliance, and support scalability for larger events. This will significantly improve the efficiency and effectiveness of campus event management.**

*A brief rundown of the required functionality:*

* **Event creation and management tools.**
* **Ticketing system with QR code generation.**
* **Attendee check-in via mobile devices through website.**
* **Notifications and reminders for event attendees.**
* **Real-time updates for attendee changes.**
* **Event dashboard with analytics.**
* **Ticket purchase interface with multiple payment options and options for student payments.**
* **API for ticketing and attendee management.**
* **Real-time data sync for check-in systems.**
* **Secure ticket storage and validation.**
* **GDPR compliance for attendee data.**

**About the Developers**

## Our Developers:

**Darren Ross**

GitHub Username: **djgamekid**  
Find my projects and repositories here: [Darren Ross](https://github.com/djgamekid)

Interest in Computer Science:

* Web Applications
* Backend Databases
* Mobile Applications
* IoT Devices
* AI

**Manikala**

GitHub Username: **cmanikala**  
Follow me here: [Manikala](https://github.com/cmanikala)

Interests in Computing:

* Databases (SQL, MongoDB); Object-oriented programming languages
* Developing web applications using JavaScript, HTML, and CSS
* Mobile applications (iOS); Data structures
* AI & Web technologies

**Sai Achyuth Konda**

GitHub Username: **saiachyuth-pc**  
Link to GitHub page: [Sai Achyuth Konda](https://github.com/saiachyuth-pc)

Listing of strengths and interests in computing:

* Performance Testing Tools (Load Runner, Akamai, Dynatrace, Jenkins, Soap UI, Pinpoint)
* Database Management Systems (SQL); Object-Oriented Programming using Java
* Developing web applications using HTML, CSS, JavaScript
* Java, Python, AI

**Anthony Jack**

My GitHub Username: **DopeAnt25**  
Find my projects and repositories here: [Anthony Jack](https://github.com/DopeAnt25)

Interest in Computing:

* Front-end development
* Mobile development (iOS & Android)
* Game development / C++
* Theory and Implementation

**Problem Statement**

*The Problem*

The current campus event system has inefficiencies for both users and administrators, particularly in ticket viewing, purchasing, and attendance verification. Organizers face challenges navigating multiple websites for event creation, including booking rooms and managing event details across various internal systems.

There is a lack of cohesive analytics for organizers, limiting their ability to track event performance and understand attendance demographics, especially for non-students. Students struggle to find and purchase tickets due to limited event visibility, while check-in processes using student IDs are inefficient and cause delays. Non-student attendees miss out on reminders and updates, creating unequal access to event information compared to students and potentially affecting participation.

**Design**

**Functional Requirements**