



Context Objects and Requirement Sources

Campus Wellness Portal with Medical System and Fitness Center Integration

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Table 1.1 Table of system context object

System Context Object	Explanation
Student	The student is the primary user of the platform who schedules appointments, books fitness activities, tracks wellness goals, and accesses personalized health resources.
Health center	The health center is the facility providing clinical services. It is integrated with the platform for appointment scheduling and health resource sharing.
Fitness center	The fitness center is the campus facility offering fitness classes, equipment, and wellness programs. It is connected to the platform for session bookings and activity tracking.
System administrator	The system administrator oversees and maintains the wellness portal's functionality, access, and performance.
Health center staff	The health center staff manages appointments and updates medical resources.
Fitness center staff	The fitness center staff schedule classes and manage fitness resources.
Medical system	The medical system is an embedded system interface allowing students to view availability and book, reschedule, or cancel medical appointments.
Fitness center	The fitness center is an integrated booking interface for students to reserve fitness classes, personal training, or facility time slots.

Table 1.2 Table of sources of requirement

System Context Object	Sources (Type)	Explanation
Student	University database (Document)	Details can be obtained in the university database.
Health center	Health center staff (Stakeholder)	Information about the health center is updated by university staff.
Fitness center	Fitness center staff (Stakeholder)	Information about the fitness center is updated by university staff.
System administrator	Administration procedures (Document)	The administration procedures store information about the system administrator.
Health center staff	Business Analyst from University (Stakeholder)	Detailed information of health center staff can be provided by business analysts from the university.
Fitness center staff	Business Analyst from University (Stakeholder)	Detailed information of health center staff can be provided by business analysts from the university.
Medical system	Technical help desk (Stakeholder)	The technical help desk is able to provide detailed information about the health center appointment.
Fitness center	Technical help desk (Stakeholder)	The technical help desk is able to provide detailed information about the fitness center scheduling.

Table 1.3 Table of development context object

Development Context Object	Sources (Type)	Explanation
GitHub	GitHub online documentation (Document)	Used for source control, document collaboration and version tracking.
Microsoft Teams	Microsoft online documentation (Document)	Used for team communication, file sharing and meetings.
Software engineer	Corporate wiki (Document)	Specialist in discipline, able to give inside information about realistic solutions. Information can be sought on the company's website.
Go live date	Project plan (Document)	Date of deployment of the system.
Project budget	Project plan (Document)	Budget such as time and assets, can be found in the project plan.
Project manager	Corporate wiki (Document)	To set processes and milestones.
Development framework (Flask)	Flask online documentation (Document)	Backend framework for building system functionality.
Frontend technology (React)	React online documentation (Document)	For designing responsive web interfaces.
Database system (SQL)	SQL online documentation (Document)	Stores user data, appointments, goals and class schedules.
University API documentation	University website (System)	Understanding integration points with health and fitness systems. Besides, provide credentials for the user authentication system.
Agile Model	Online documentation (Document)	A group of development processes that aim to adapt quickly to change requests and deliver software faster.