



**CSE 6224 Software Requirements Engineering**

**Trimester 2510**

**Context Objects**

**Project title:**

**Student Club Management System with Budget and Venue Integration**

**Tutorial Section: TT5L**

**Group Name: TT5L\_G1**

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## 1. Introduction

This document identifies context objects for the Student Club Management System with Budget & Venue Integration and highlights the sources from which its requirements will be derived. Clearly documenting these context objects and requirement sources helps clarify the system boundaries, ensure accurate requirements gathering, and streamline interactions with relevant stakeholders and systems during elicitation activities (Tasks 3 and 4).

## 2. Identified Context Objects

#	Context Object	Role / Interaction with Student Club Management System	Real-world Reference
1	Student Club (External Actor)	Submits club profile updates, event proposals, and budget requests; owns member & finance data.	List of registered student organisations under BHEP UPM ( <a href="http://hep.upm.edu.my">hep.upm.edu.my</a> )
2	Club Member (Student)	Logs in via UPM SSO; joins/withdraws from clubs; views events; may hold roles (President, Treasurer, etc.).	Example faculty level club structure on BHEP site (PEMAJU) ( <a href="http://hep.upm.edu.my">hep.upm.edu.my</a> )
3	Student Affairs Division (BHEP)	Approves new club registrations, activity forms, and budget disbursements; enforces guidelines & audits.	BHEP “About Us” page outlining duties ( <a href="http://hep.upm.edu.my">hep.upm.edu.my</a> )
4	Putra Finance System	Receives approved disbursement data;	“Putra Finance Financial System” documentation from

		returns up to date ledger balances and transaction statuses.	the Bursar's Office ( <a href="http://bursar.upm.edu.my">bursar.upm.edu.my</a> )
5	ST Putra Facility Booking System	Provides real-time venue search, clash detection, and booking confirmation for club events.	Sistem Tempahan Fasilitas UPM (ST Putra) page ( <a href="http://myageing.upm.edu.my">myageing.upm.edu.my</a> )
6	Student Activity Approval Form	Digital/scan PDF containing risk assessment & budget; uploaded by clubs and routed to BHEP for sign-off.	"Borang Permohonan Kelulusan Aktiviti Pelajar" Google-Form link ( <a href="http://hep.upm.edu.my">hep.upm.edu.my</a> )
7	Notification Service (e-mel @UPM + Push)	Sends email and in-app reminders for pending approvals, booking clashes, or budget decisions.	UPM e-mail access & usage guide ( <a href="#">IDEC</a> )
8	Admin Dashboard (Internal Boundary)	Web UI where BHEP and Bursar officers review submissions, run reports, and trigger finance workflows.	SAP Campus-Management "Student Administration" portal capabilities ( <a href="#">SAP Help Portal</a> )

### 3. Identified Requirements Sources

#### Stakeholders

#	Source	Type	Information Sought / Expected Learning	Elicitation Method(s)
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1	Club Members	Stakeholder	Membership flows, event engagement, UI/UX expectations, accessibility needs	Survey
2	Student Club Management System Project Team	Internal Stakeholder	Internal feature suggestions, system functionality refinement.	Brainstorming

## Documents & Literature

#	Document / Source	Type	Key Information Extracted	Access Link & Citation
1	<i>College Club Activity Management System</i> – CSITSS 2023	Academic paper	Centralised web platform, NLP-based feedback analytics, engagement metrics	Hariprasad M., Neha N., Dey N., Pratiba D., & Kumar R., <i>Proc. CSITSS 2023</i> , pp. 1-5, doi: 10.1109/CSITSS60515.2023.10334208 ( <a href="#">ResearchGate</a> )
2	<i>Netball Club Information System</i> – UTHM AITCS Vol 6 No 1 (2024)	Academic paper	PHP/MySQL architecture, role-based access, email/SMS alerts, ER-diagram patterns	UTHM Applied IT & Computing Science Periodicals, Vol 6 (1), 2024 ( <a href="#">UTHM Publisher</a> )

3	CiviCRM User & Developer Docs	Comparable system	Membership, event, contribution & bulk-email workflows comparable to student-club ops	docs.civicrm.org (e.g. “What is CiviContribute?”) ( <a href="#">CiviCRM Documentation</a> )
4	UPM Club Policies & Guidelines (Manual Pelaksanaan Aktiviti Pelajar + Garis Panduan Kewangan)	Institutional document	Registration rules, budgeting caps, submission deadlines, audit checkpoints	BHEP PDFs – e.g. “Manual Pelaksanaan Aktiviti Pelajar (V5)” ( <a href="#">Hep UPM</a> )

### Existing Systems

#	Source	Type	Information Extracted	Access Method / Citation
1	ST Putra Facility Booking System	External system	Venue catalogue, clash-detection API, booking confirmation workflow	ST Putra portal snippet (“Facility reservation system...”) ( <a href="#">My Ageing</a> )
2	Putra Finance Financial System	External system	Required disbursement fields, GL codes, payment status query	Bursar sitemap entry “PUTRA FINANCE FINANCIAL

				SYSTEM” ( <a href="#">UPM Bursar</a> )
3	UPM Single Sign-On (UPM-ID ADFS)	External system	JWT/LDAP claims for authentication & role-mapping	iDEC presentation “UPM Digital Identity & SSO” ( <a href="#">SGS UPM</a> )
4	Notification Gateway (e-mel@UPM SMTP + WebPush)	Internal component	Outbound email relay, push-token registry, throttling rules	Internal mail-usage guide (iDEC) – in-progress tech doc

#### 4. Elicitation Techniques

- **Brainstorming:**

Conducted internally among project team members to identify system features, design ideas, and initial functionality concepts clearly and effectively.

- **Survey:**

Used to collect broad user feedback efficiently from student club members.

- **Document Analysis:**

Review institutional guidelines, forms, policy documentation, and existing system manuals to capture formal requirements.

#### 5. Justification

The context objects identified include all critical external entities interacting directly with the proposed system. The sources selected offer comprehensive coverage, combining direct stakeholder experiences, established documentation, and reliable insights from current systems. This ensures that explicit requirements (such as university policy and procedural rules) and implicit needs (user experience insights) are captured effectively.

## **6. Conclusion**

The identified context objects and requirement sources provide a well-defined boundary and foundational understanding for the Student Club Management System project. These will serve as critical inputs in the upcoming requirements elicitation activities, ensuring the comprehensive capture of all necessary system features and constraints.