

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**

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| --- | --- | --- | --- | --- |
| **#** | **Context Object** | **Purpose & Interface with SCMS** | **Typical Data Exchanged** | **Real‑world Reference** |
| 1 | Student Club  (External  Actor) | Owns membership roster, finances, and event portfolio. Club officers log in to submit or update:   * club profile * event proposals * annual budgets. | Club metadata, officer list, budget line‑items, event plans | UPM list of registered student organisations ([hep.upm.edu.my](https://hep.upm.edu.my/student_organization-2181?L=en)) |
| 2 | Club Member / Student | Authenticates via UPM‑ID Single Sign‑On; joins/leaves clubs; RSVPs to events; receives notifications and QR/event passes. | Student ID, RSVP status, attendance tokens | Student Organisation Directory page ([hep.upm.edu.my](https://hep.upm.edu.my/student_organization-2181?L)) |
| 3 | Student Affairs Division  (BHEP) | Regulatory owner of co‑curricular activities. Reviews new‑club registrations, event approval forms, and post‑event reports; audits spending. | ⇄ Approval status, risk‑assessment docs, audit logs | BHEP organisational pages ([hep.upm.edu.my](https://hep.upm.edu.my/?L=en)) |
| 4 | Finance Office – Putra Finance System | Receives approved disbursement requests; returns real‑time ledger balances, payment status, and GL transaction IDs. | ⇄ Budget codes, pay‑out vouchers, live balance | Putra Finance system document ([bursar.upm.edu.my](https://bursar.upm.edu.my/document_download/putra_finance_financial_system_and_support_system_responsibility_centre_action-14996?L)) |
| 6 | Student Activity Approval  Form (Google Form / PDF) | Standard form clubs upload; captures risk matrix & budget. Triggers BHEP digital routing and e‑signature. | Activity details, risk items, budget table | “Borang Permohonan Kelulusan Aktiviti Pelajar” Google‑Form link ([hep.upm.edu.my](https://hep.upm.edu.my/perkhidmatan_kami/seksyen_perkhidmatan_kepimpinan_jati_diri/borang_borang_permohonan_aktiviti_pelajar_google_form-62139?)) |
| 7 | Notification  Service (e‑mel@UPM + push) | Sends system e‑mails & push alerts for approvals, budget‑outcome, or venue clashes. Uses OAuth with UPM mail servers. | Recipient list, subject, payload | @UPM Mail user manual  ([IDEC](https://idec.upm.edu.my/dokumen/PPMDK1_UPM_Email_Access_%26_Import_Guide.pdf?)) |

**3** **Identified Requirements Sources**

**3.1 Stakeholders**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Source** | **Expected Learning** | **Elicitation Method(s)** |
| S1 | Club Members | Ease of joining/leaving clubs, clarity of event info, mobile friendliness, accessibility (colour‑contrast, font resize). | Survey |
| S2 | Student Club Management System Project Team | Internal feature suggestions, system functionality refinement. | **Brainstorming Session** |

**3.2 Documents**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Document / Source** | **Why it matters to SCMS** | **Access Link & Citation** |
| D1 | Manual Pelaksanaan Aktiviti Pelajar (V5) | Governs who may organise events and mandatory committee structure; defines submission timeline (≥ 30 days before event) and risk‑assessment contents. | BHEP PDFs – e.g. “Manual Pelaksanaan Aktiviti Pelajar (V5)” ([HEP UPM](https://hep.upm.edu.my/upload/dokumen/20221202162707Manual_Pelaksanaan_Aktiviti_Pelajar_%28V5%29.pdf)) |
| D2 | Panduan Tuntutan Kewangan Aktiviti Pelajar | Lays out budget caps, permissible expense categories, receipt requirements, and audit checkpoints. | BHEP PDFs – e.g.  “Panduan Tuntutan Kewangan Aktiviti Pelajar” ([HEP UPM](https://hep.upm.edu.my/upload/dokumen/20210704210921PANDUAN_TUNTUTAN_KEWANGAN_AKTIVITI_PELAJAR_%28FINAL2%29.pdf)) |

**3.3 Existing Systems**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Source** | **Relevance to SCMS** | **Access Method / Citation** |
| X1 | ST Putra Facility Booking System | Provides authoritative venue catalogue & clash‑detection API. | [ST Putra](http://stputra.upm.edu.my/) |
| X2 | PUTRA Presence event‑attendance platform | Models seamless QR / Bluetooth attendance capture integrated with UPM‑ID. | [PUTRAPresence](https://putrapresence.upm.edu.my/) |
| X3 | Cornell CampusGroups | Mature SaaS showcasing combined club roster, budget request, and RSVP modules. | [CornellUniversity](https://cornell.campusgroups.com/home_login) |
| X4 | Campus Labs Event Check‑in mobile app | Demonstrates offline check‑in, bulk CSV export, and multi‑device scanning. | [Google Play](https://play.google.com/store/apps/details?hl=en_US&id=com.campuslabs.checkins&utm_source=chatgpt.com) |
| X5 | Eventbrite | Industry standard for public RSVP, automatic reminder e‑mails, and ticket QR generation. | [Eventbrite](https://www.eventbrite.com/) |

**4 Justification**

The ten context objects span all data touch‑points: human actors, forms, identity, legacy finance, venue, notification, and attendance services. Pairing them with rich requirement sources—policy docs (D‑series), live platforms (X‑series), and two stakeholders—ensures that the SCMS specification will simultaneously satisfy regulatory compliance, operational feasibility, and user‑experience quality. Benchmark systems (X1‑X5) provide proven workflows to avoid reinventing the wheel and to set performance baselines.

**5 Conclusion**

By mapping every external entity and authoritative reference in detail, the project team now holds a single, authoritative boundary definition for the Student Club Management System. These objects and sources will guide Tasks 3 & 4, guaranteeing that no regulatory rule, integration interface, or stakeholder expectation is overlooked during requirements elicitation and analysis.