

PROJECT ABSTRACT

Student Club Dues and Subscription Manager

A treasurer's dashboard for student clubs — members, fee plans, dues collection, receipts and pending balances — built-to-order with a working demo, report, PPT and viva kit.

01. Title

Student Club Dues and Subscription Manager

02. Introduction / Background

Student clubs run on money collected by hand: a treasurer maintains a notebook or spreadsheet of who paid the semester fee, who owes for the event, and who paid partially. Reconciliation happens from memory, receipts are verbal, and disputes about 'I already paid' surface at the worst moments. For a club with dozens of members across annual memberships, semester plans and per-event fees, manual tracking does not scale and erodes trust. A dues manager gives the treasurer a single source of truth: every member's plan, due, paid and balance, with receipts for every payment.

03. Problem Statement

The core problems are transparency and effort: members cannot see their own balance without asking the treasurer, partial payments are hard to track, and the treasurer spends hours before every event figuring out who owes what. This project builds a club finance dashboard: an overview with collected/pending totals and collection rate, a members table with per-member due/paid/balance and status pills, multiple fee plans (annual, semester, event, workshop), one-click payment recording with receipt numbers, and plan-wise collection bars — everything a student treasurer needs, nothing they don't.

04. Objectives

- Maintain member records with fee plan, amount due, amount paid and live balance.
- Support multiple fee plans: annual, semester, per-event and workshop passes.
- Record payments with mode (UPI/cash/bank) and issue numbered receipts.
- Show collection overview: totals collected, pending, member count, collection rate.
- Flag overdue and partial payers with clear status indicators.
- Deliver the complete student kit: working web app, source code, report, PPT and viva Q&A.;

05. Proposed Methodology

The app is a client-side finance dashboard over seeded club data. (1) Data model: members (name, plan, due, paid), fee plans (name, fee, description, billing period), payments ledger (member, amount, mode, note, timestamp). (2) Derived state: balances, statuses

(Paid/Partial/Overdue), collection rate and plan-wise aggregates are computed from the ledger — never stored redundantly. (3) Interactions: record-payment modal updates the member and prepends a ledger entry with a receipt number; quick-record buttons on overdue rows prefill the balance. (4) Seed data: ten members across four plans with realistic payment states.

06. System Architecture / Working

Three tabbed views share one store. Overview aggregates the ledger into stat cards (collected, pending, members, collection rate with progress bar), plan-wise collection bars, and a recent-payments feed with avatar chips. Members & Dues renders the full table with per-row status pills and quick-record actions. Fee Plans shows the four plans as cards with share/payment-link actions. Recording a payment is a single update: member.paid increases (capped at due), a receipt-numbered ledger entry is created, and all views re-render — demonstrating derived-state consistency.

07. Hardware / Software Requirements

- Any modern web browser (Chrome, Edge, Firefox)
- Single HTML/CSS/JS file — no server, no build step, runs offline
- No external libraries or network calls in the demo
- Report/PPT tooling: any office suite; report delivered as PDF

08. Expected Outcomes

- A working dashboard with realistic club finance data across four fee plans.
- Payment recording demonstrable end-to-end with receipt numbers.
- Balances, statuses and collection rate updating consistently across views.
- Plan-wise collection bars and recent-payments feed rendered from the ledger.
- Project report, presentation and viva Q&A; matching the implemented features.

09. Applications

- Student club/technical-society treasurers
- Event organizing committees collecting entry fees
- Hostel mess or sports committees tracking contributions
- Any small member-funded group needing transparent dues tracking

10. Future Scope

- Per-member login showing only their own dues and receipts
- UPI deep-link payment with automatic reconciliation
- Defaulter reminder messages via WhatsApp/SMS
- Expense tracking alongside collections (full club accounting)
- Year-end financial report export for the faculty advisor

11. Declaration

This abstract describes the built-to-order deliverable. No performance figures, test results or accuracy claims are made — the manager's behavior is demonstrated live in the working demo.