



FACULTY OF COMPUTING
RIPHAH INTERNATIONAL UNIVERSITY

PROJECT PROPOSAL
FYP MANAGEMENT SYSTEM

FACULTY OF COMPUTING

Shayan Ahmed Raza 28585

SOFTWARE CONSTRUCTION & DEVELOPMENT
BS-SE

2. Introduction of the Project

Problem Statement

Currently, universities manage Final Year Projects through manual processes involving paper submissions, email communications, and spreadsheet tracking. This leads to communication gaps, duplicate projects, unfair supervisor workload distribution, progress tracking issues, and loss of historical project data.

Proposed Solution

The FYP Management System is a comprehensive web-based platform that digitizes the entire FYP lifecycle from proposal submission to final evaluation and archival. The system provides centralized management, automated workflows, real-time communication, intelligent duplicate detection, and standardized evaluation processes.

Key Features

- **Digital Proposal System:** Online submission and approval workflow
- **Smart Archive:** Searchable database with duplicate detection
- **Progress Tracking:** Visual milestone management and status updates
- **Communication Hub:** Built-in messaging and meeting scheduling
- **Fair Distribution:** Automated supervisor workload balancing
- **Standardized Evaluation:** Rubric-based assessment system
- **Analytics Dashboard:** Comprehensive reporting and insights

Expected Benefits

- 60-70% reduction in administrative overhead
- Improved communication and collaboration
- Prevention of duplicate projects
- Fair supervisor allocation and workload management
- Permanent digital archive with search capabilities
- Standardized and transparent evaluation process

3. Stakeholders

Stakeholder	Role	Key Responsibilities	System Benefits
Students	Project Executors	Submit proposals, track progress, communicate with supervisors	Streamlined submission, clear progress visibility, direct supervisor communication
Supervisors	Project Mentors	Review proposals, provide guidance, evaluate progress	Centralized student management, automated notifications, fair workload distribution

Committee Members	Project Evaluators	Assess projects using standardized rubrics	Digital evaluation interface, consistent grading system, comprehensive project access
System Administrator	System Manager	User management, system configuration, report generation	Automated operations, comprehensive analytics, streamlined administration

4. Functional Requirements

FR1: User Management

- User authentication with role-based access control (Admin/Student/Supervisor/Committee)
- Profile management and password reset functionality
- Activity logging and audit trails

FR2: Past FYP Archive

- Digital archive of past projects (title, year, abstract, department, supervisor, status)
- Advanced search functionality with keyword and filter-based queries
- Automated duplicate detection using keyword matching algorithms

FR3: Proposal Submission & Approval

- Online proposal submission with standardized templates
- Supervisor approval/rejection workflow with feedback system
- Automated supervisor assignment based on availability and expertise

FR4: Supervisor Management

- Availability status and student capacity management
- Research area specification for better student-supervisor matching
- Automated workload balancing and capacity monitoring

FR5: Communication & Scheduling

- Secure messaging system between students and supervisors
- Meeting request and scheduling functionality
- Automated notifications for important events and deadlines

FR6: Project Tracking

- Progress status updates (Proposed, Approved, In-Progress, Completed)
- Milestone-based tracking with document upload capabilities
- Visual progress indicators and timeline management

FR7: Evaluation & Grading

- Rubric-based evaluation system for consistent assessment
- Supervisor milestone ratings and final recommendations
- Automated grade calculation combining multiple evaluation components

FR8: Reporting & Analytics

- Administrative reports (supervisor workload, department statistics, yearly trends)
- Data export functionality (PDF/Excel formats)
- Performance analytics and system usage monitoring

FR9: Security & Authorization

- Role-based access control with data encryption
- Session management with automatic timeout
- Comprehensive audit logging for all user actions

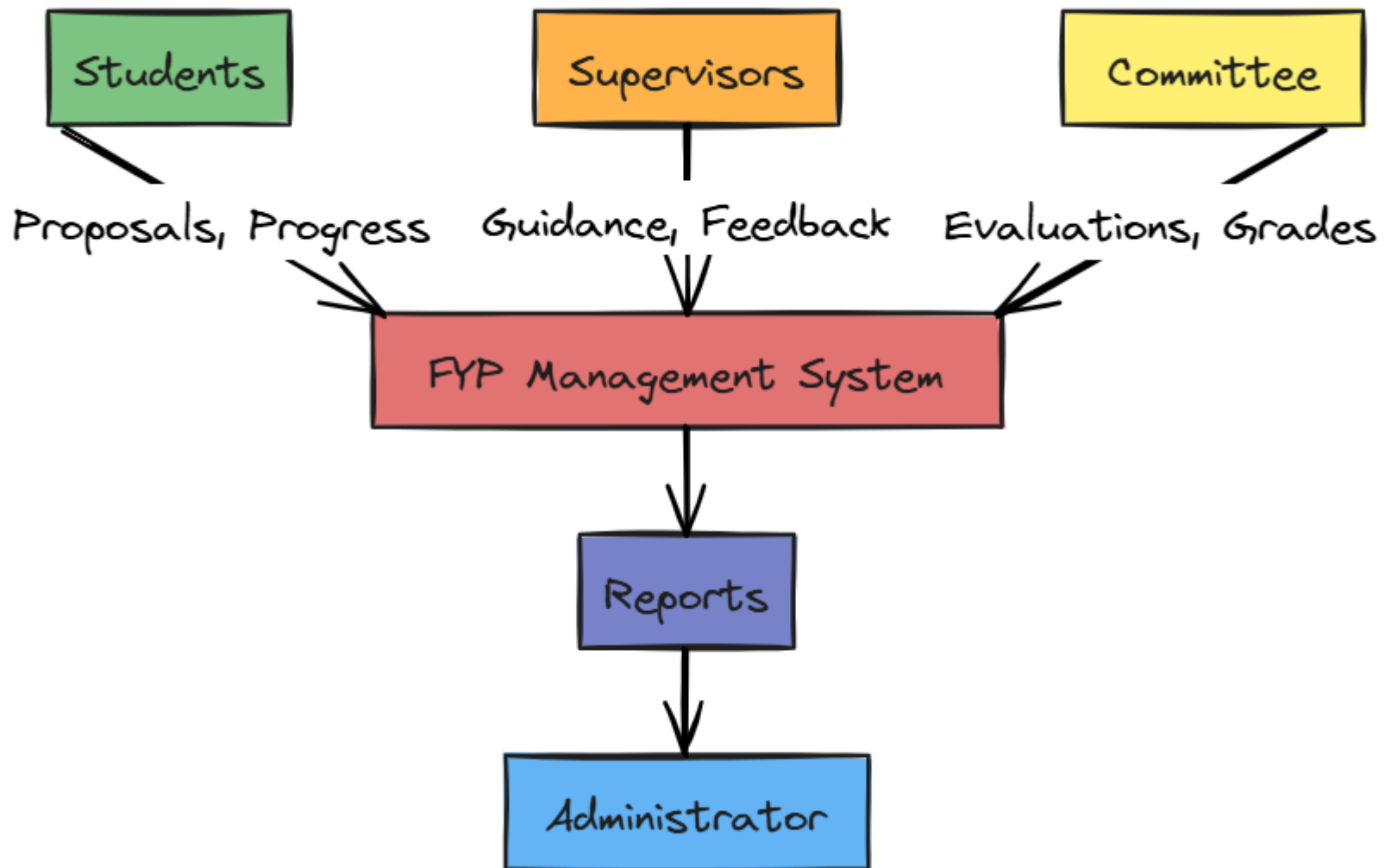


Fig 1. Data flow diagram for Fyp Management System