

# High-Impact IT Project Ideas for Intermediate/Diploma-Level Colleges

## 1. Smart Student Attendance & Performance Tracker

Build a web/mobile system where:

- Teachers mark attendance via a simple interface
- Auto-generates reports for student attendance and grades
- Students and parents can check their own dashboards
- Integrate biometric/RFID or just QR code scanning

Tech Stack: React/Flutter + Node.js/Express + PostgreSQL or Firebase

## 2. College Event & Club Management Platform

Build a platform that:

- Lists events, deadlines, winners
- Allows online registrations and RSVP
- Clubs can post announcements, and members can join online
- Admin dashboard to manage all college activities

Tech Stack: Next.js + Supabase or Laravel + MySQL

## 3. Digital Suggestion & Complaint Box

Help students voice concerns anonymously or with their ID.

- Suggestion forms go to department heads
- Admin panel for filtering, reviewing and responding
- Voting system for students to upvote popular suggestions

Tech Stack: Vue.js/React + Node.js + MongoDB

## 4. Smart Lab Equipment & Room Booking System

Build a portal where:

- Students can book labs for extra practice
- Teachers can reserve rooms or lab kits
- Prevents clashes and overbooking

- Tracks usage stats for optimization

Tech Stack: Django + PostgreSQL

## **5. College Resume & Portfolio Builder for Students**

A platform that:

- Lets students generate clean resumes using templates
- Allows them to build a mini online portfolio (projects, skills, links)
- Optionally export as PDF or shareable link

Tech Stack: React + Node.js + MongoDB

## **6. Exam Preparation & Past Paper Portal**

Digitize past papers and solutions for easy access.

- Search by subject, year, department
- Upload papers as admin or teacher
- Comment section for peer discussion
- Download and print features

Tech Stack: Laravel + Bootstrap + MySQL or Firebase

## **7. Student Peer Tutoring System**

Connect stronger students with those needing help.

- Students can apply to become tutors
- Others can book time slots for help
- Chat or meeting integration (e.g., Jitsi)

Tech Stack: MERN Stack or PHP + MySQL

## **8. Lost & Found Platform for College**

Make it easy to report or claim lost items.

- Upload item photo and description
- Notify users if similar item is found
- Verify using time and location logic

Tech Stack: Flutter + Supabase or Express.js backend

## **9. College Bus/Transport Tracker App**

If your college uses transport:

- Students see bus location in real time
- Driver app to share location
- Notify about delays, changes, and breakdowns

Tech Stack: React Native + Firebase + Google Maps API

## **10. Internship & Job Finder Portal for Students**

- Dashboard with filtered internships/jobs
- College placement officer can post new opportunities
- Students apply and get notified of shortlists

Tech Stack: Laravel or MERN Stack

## **Bonus: Ideas Specific to Ethiopian Context**

- Amharic/Local Language Translation App for Tech Terms
- Wolaita/Sidama Student Culture Sharing Portal
- Online TVET Skill Assessment Simulator
- Micro-Finance & Budget Planner for Students