VEDHANT KHAJURIA / SELECTED PROJECT

EnoughEdu

A student platform built around everyday work.

PROJECT REPORT / SEPTEMBER 2026

ENGINEERING TOOLS, STUDY RESOURCES & STUDENT WORKSPACES

A practical toolkit for the engineering degree.

Project report and demonstration guide
Prepared by **Vedhant Khajuria**

enoughedu.vedhant.in

PROJECT	IMPLEMENTATION
Web application	PHP · MySQL · JavaScript
Deployment	Independent cPanel subdomain
Report edition	September 2026

Portfolio: vedhant.in
LinkedIn: /vedhantkhajuriaofficial
GitHub: /vedhant-khajuria

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The project at a glance

EnoughEdu brings the routine parts of an engineering degree into one web application: checking academic progress, finding study material, planning a semester and preparing for an internship or job application. The portfolio edition is hosted at enoughedu.vedhant.in.

The idea is straightforward. A student should be able to calculate a grade, look up a resource and return to a personal study plan without starting from scratch in a different service each time. Public pages explain the tools; an account holds the student's own records and activity.

Scope and responsibility

This project covers the student interface, PHP application logic, MySQL data model, administrator workflows and hosting setup. It also includes integrations for Google sign-in, Razorpay payments and Gemini-assisted career writing. Those services need their own configuration and testing before they can be relied on in a live deployment.

Two sides of the same application
Students use the tools and library. The administrator manages the catalogue, resource listings, pricing and site content from a separate dashboard.

Reading guide

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Scope note: this report describes the supplied portfolio source and recorded local checks. It does not claim that every external service has been tested on the live host.

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What EnoughEdu includes

AREA	WHAT THE STUDENT CAN DO
Academic tools	Use CGPA, SGPA, percentage and attendance calculators, GPA conversion, marks prediction and backlog-impact estimates.
Study planning	Organise tasks, assignments, exams and goals. Record semester results and use focused-study utilities such as a Pomodoro timer.
Resource library	Browse branch-related material, search by subject or topic, read page previews and download original PDFs when access allows.
Career preparation	Draft resume content, LinkedIn profile text and cover letters with optional Gemini assistance. Review the output before using it.
Image and PDF tools	Convert or resize images, create a PDF from images, merge PDFs and extract selected pages in the browser.
Accounts and access	Create a student account, complete onboarding and return to a personal dashboard. Optional Google sign-in is available after setup.
Administration	Manage users, resources, tool prices, plans, coupons, saved content and integration settings through the admin area.

How to interpret the results

Academic calculators depend on the values and grading scale entered by the user. Their output is a planning aid; a university's official rules remain the reference. Career tools should improve the wording of real information, not invent qualifications or experience.

Prices and availability come from the application's configuration and database. Some tools can be free while others require a purchase. Resource membership is a separate access path and can be paused by the administrator.

The source includes 31 catalogue tools across academic, career, writing, productivity, engineering, and media categories. The table groups the main workflows rather than treating every tool as a separate product.

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A student walkthrough

1. Start with the public catalogue

Open enoughedu.vedhant.in and browse Tools or Resources. Tool pages explain their purpose and show any access requirement before the student proceeds.

2. Create an account

Use the signup form with a name, email address and password. Google sign-in is an alternative when its OAuth credentials and callback are configured. Complete onboarding to give the dashboard the relevant academic context.

3. Try a calculator

For a CGPA or SGPA calculation, enter the course grade points and credits using the applicable scale. Check the inputs, review the result and compare it with the institution's calculation method. An estimate is only as reliable as its inputs.

4. Find a study resource

Search the resource library by title, subject or topic, or narrow the results by branch. Open a listing to read its preview pages. Original-file downloads are checked separately against the signed-in user's access.

5. Build a personal workspace

Add a task or exam, set dates and update progress as work is completed. Academic records, purchases and activity belong to the account; a new account does not need invented example activity to look populated.

6. Use a file or career tool

For image and PDF utilities, select files from the device and download the processed result. These utilities work in browser memory. For a career tool, provide accurate background information; the enabled AI service receives the submitted details for generation.

A short review session
Browse the catalogue, create a test student account, calculate a sample GPA, add one task and preview a resource. Test a purchase only when the deployment is explicitly configured for Razorpay Test Mode.

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Inside the admin panel

The admin panel is the management side of EnoughEdu. It gives the site owner a place to maintain the content and access rules that students see. Open enoughedu.vedhant.in/admin and sign in with an account that has the administrator role.

SCREEN / TASK	WHAT TO REVIEW
Dashboard and users	Review database-backed counts and user records. Confirm which account you are using before changing roles or status.
Resources	Add a title, subject and description; select branches; enter the private PDF filename; then save as draft or publish.
Tools and plans	Review tool descriptions, individual prices and the contents of membership plans. A zero tool price can make that tool free.
Coupons and payments	Manage coupon conditions and inspect order/payment records. Access should reflect a verified payment, not just a browser message.
Content and settings	Edit saved homepage text and support details, review maintenance controls and check integration configuration.
Resource membership	Set the monthly download offer when Razorpay Subscriptions is available. Keep new memberships paused until the full flow has been tested.

Suggested demonstration

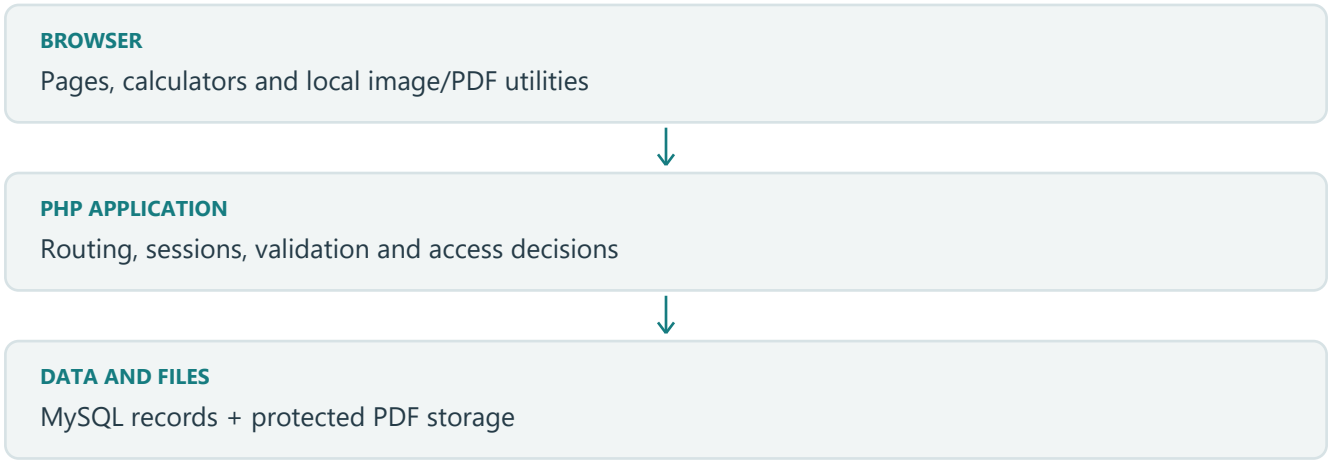
Start with the dashboard, then inspect a resource record and a tool's pricing form. On a dedicated demo copy, create a clearly labelled draft resource, review its branch assignments and show how publishing changes the student-facing catalogue. Finish by showing where payment and integration status are managed.

Demo access
Request current credentials from hello@vedhant.in. This report does not publish an administrator password. The existing admin role can modify site data; a restricted, resettable demo should be prepared before offering unattended public access.

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How the application fits together

EnoughEdu uses a server-rendered PHP application with plain JavaScript for browser interactions. There is no frontend compilation step on the hosting server. Keeping the runtime small makes the project practical to upload and maintain on cPanel.



External connections: Google handles optional sign-in, Gemini handles enabled career-generation requests, Razorpay handles payment services, and the host's mail transport sends account messages.

LOCATION	RESPONSIBILITY
index.php	Receives page requests and loads the application from the same document root.
app/ and includes/	Account flows, tools, payments, resource handlers, administration and template integration.
assets/	Styles, browser scripts, brand assets and the bundled pdf-lib library.
config/ and database/	Private runtime settings, installation schema and migration scripts.
storage/ and cron/	Protected resource files, previews and a command for subscription reminders.

One folder, with clear access boundaries

Public files and private application folders share the subdomain's document root. Apache-compatible access rules deny direct web requests to app, config, database, storage and other internal folders. PHP can still read the required files on the server. This layout depends on the host enforcing those rules.

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Data, access and payment flow

The complete installation SQL contains 33 tables. The schema separates account information, academic activity, content records and commercial access so that each part can be maintained without storing everything in one user record.

DATA GROUP	EXAMPLES
Identity and study	Users, password resets, branches, planner tasks, exams and academic records.
Content and discovery	Notes, resources, branch mappings, PDF/preview metadata, bookmarks and download records.
Commerce and access	Plans, coupons, orders, payments, subscriptions, tool/material entitlements and resource membership receipts.
Site management	Settings, homepage sections, FAQs, banners, notifications and contact messages.

A purchase is a server decision

For regular checkout, PHP prepares an order with Razorpay and sends the checkout details to the browser. On return, the application verifies the payment signature and processes the result on the server. Webhooks support payment updates. A client-side success message alone is not the authority for granting access.

Resource membership has its own reconciliation logic. It checks provider subscription and payment records to determine the verified access period. This separates the monthly PDF-download offer from individual tool purchases and other plans.

Protections present in the source

Passwords use PHP hashing functions. Sessions use HTTP-only cookies and secure-cookie settings for HTTPS. Sensitive forms use CSRF tokens, and database access uses prepared statements where user values are supplied. Admin operations require an administrator account; administrator password changes use an emailed verification code.

PDF handling confines paths to the resource directory, checks the file signature and applies access checks before delivering an original. Browser-based image/PDF utilities process selected files locally; AI career tools have a different data path because their submitted details are sent to the configured provider.

These are implementation measures, not a claim of a completed independent security audit. Live configuration and server rules remain part of the access boundary.

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Deployment on the portfolio subdomain

1. Assign a separate document root

In cPanel Domains, use the folder assigned to enoughedu.vedhant.in. Extract the hosting package there so index.php and .htaccess sit directly beside app, assets, config and storage. The main portfolio keeps its own document root.

2. Import the database once

Create a new database and database user, grant the user access, then select that database in phpMyAdmin. Import enoughedu-complete.sql into an empty database. It includes the base schema, resource-library tables and portfolio defaults; no extra fresh-install migrations are needed.

3. Set the private configuration

Enter the database credentials in config/config.php. Keep the application URL set to https://enoughedu.vedhant.in and support mail set to hello@vedhant.in. Enable HTTPS and the required PHP extensions. The package was checked with PHP 8.3.

4. Create the owner account

Register an account, then promote that exact user to the admin role through phpMyAdmin. No shared default admin password is included. Configure the mailbox before relying on password resets or administrator verification codes.

5. Connect optional services

For Google OAuth, use the callback shown below. Add a Gemini key and an available model for career generation. Configure Razorpay test credentials and webhook secrets, then test capture, failure, access grants and cancellation before switching to live payments.

Google OAuth callback
https://enoughedu.vedhant.in/auth/google/callback

Regular payment webhook
https://enoughedu.vedhant.in/payment/razorpay/webhook

The hosting ZIP includes PDF assets. The GitHub ZIP omits private configuration and resource binaries. The SQL is an installation file, not an export of existing users, purchase history or resource listings. A working-site database export is needed to migrate those records.

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Verification and lessons from the build

CHECK	RECORDED RESULT
Source syntax	PHP syntax checks passed with PHP 8.3; first-party JavaScript syntax checks passed.
Public routes	Ten page requests completed without PHP errors in the local no-database fallback; an unknown route returned 404.
Resource integrity	22 PDFs and all 2,715 prepared preview JPEGs were checked. Original and packaged binary assets matched.
Path handling	Valid resource paths worked; traversal, absolute paths and missing-file requests were rejected.
Still requiring live tests	MySQL import and persisted accounts, host access rules, mail, Google OAuth, Gemini, payment callbacks and authorized downloads.

What this project taught me

Moving an application to a new domain involves more than replacing a URL. File paths, mail identities, OAuth callbacks and saved database settings all need to agree. The single-folder deployment also made the boundary between a server-readable file and a publicly downloadable file especially important.

Working through accounts and paid resources reinforced the need to keep access decisions on the server. Separating preview pages from original downloads makes the content easier to explore while retaining an explicit check at the point where a file is delivered.

The packaging work also showed why a useful handover needs more than source code: a clear SQL import, configuration examples, a setup guide and a record of what was actually tested all make the next deployment easier to understand.

Next improvements

The priorities are a restricted demo account with automatic data reset, end-to-end database and integration tests, authenticated SMTP delivery, and a more convenient workflow for preparing new PDF previews. A rebuilt Android app can follow once its source and new-domain behavior are verified.

Project owner Vedhant Khajuria
vedhant.in | LinkedIn | GitHub | hello@vedhant.in

Report basis: the portfolio source package, README, setup guide, schema, resource inventory and recorded local validation. Profile links were supplied by the project owner; the GitHub link identifies the profile, not a specific project repository.