Neural Breach

Yugastr 2026 Hackathon

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Problem Statement

Academic resources and content are often scattered across places like Whatsapp, Telegram, Google Drive links etc. There usually is no verification of quality or relevance, No semester/college-specific filtering, Private resources often get leaked publicly and No incentive provided for quality contributors.

This leads to students waste time searching for resources which could be outdated or irrelevant and there exists no accountability or trust system.

Solution Overview

The solutions for these problems are comprised of:

Creating a centralized academic resource platform.
Having a secure login-based access.
College-based privacy controls.
Community driven ratings & reviews.

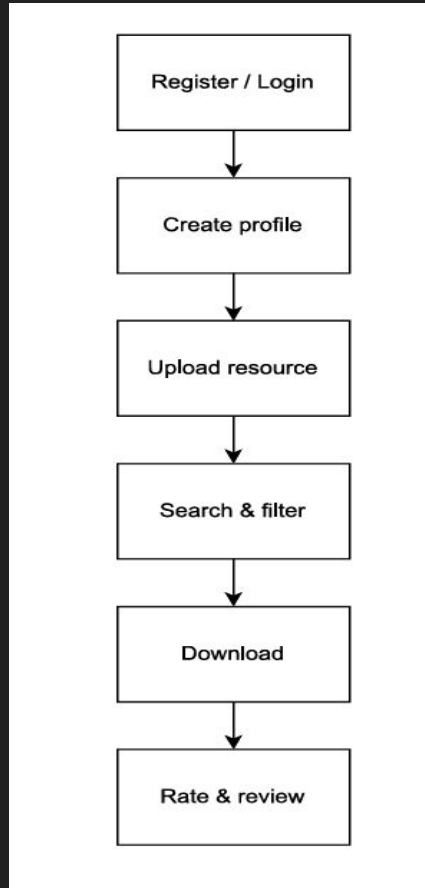# Tech Stack Flow

Backend:

- Python Flask

- SQLite

Frontend:

- HTML5

- CSS3

- JavaScript

Storage:

- Local file system

User Flow

Key Features

- User Registration & Login
- User Profiles (college, branch, semester)
- Resource Upload: PDF, PPT, DOCX, Images, ZIP
- Metadata: Subject, semester, year, tags
- Edit/Delete own uploads

Access Control System

- Public Resources: Accessible by all users
- Private Resources:Restricted to same college users
- Automatic access enforcement

Unlike Google Drive, access is validated at system level.

It prevents unauthorized sharing.

Search and Discovery

- Search by:Title, Subject, Tags
- Filters:Semester, Subject, File type
- Sorting:Latest, Popular, Highest rated

Ratings and Reviews

- Star rating (1–5)

- Written reviews

- One review per user enforced

- Average rating displayed

It encourages quality uploads and helps students choose better resources. It also prevents spam reviews

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Future Enhancements

- Cloud storage integration
- AI-based recommendations
- Monthly top contributor leaderboard
- Admin moderation dashboard
- Institution-level deployment

THANK YOU