FISCALITY

Making college budgets less shady, one chart at a time

Problem statement

Build a solution that brings clarity and trust to how money flows in institutions.
The system should:

- Make the movement of funds easy to follow and understand, showing how a budget gets divided into departments, projects, and vendors.
- Make this information easy to understand for everyone, from citizens and students to parents and other stakeholders.
- Ensure the data is authentic, traceable, and reliable, so people know they can trust it

Solution overview

01

We built a system that guarantees the financial data of a college is tamper-proof, easy to trace, and easy to understand for anyone.
Our dashboard offers a personalized view for every user. Whether you're a student, shareholder, government official, or a citizen, you see financial data that's relevant to you, covering departments, clubs, faculty, etc. So everyone gets a tailored, meaningful perspective

02

Our prototype is built using Canva AI as the HTML framework, with VS Code enabling seamless integration of external services. Designed to be cloud-agnostic, it can be effortlessly deployed on any cloud platform, making it a highly adaptable and future-ready solution.

03

We've leveraged AI tools like Cursor and Replit to seamlessly integrate external services. Additionally, colleges can opt for an integrated version with Fiscality, offering a more flexible and adaptable framework tailored to their needs.

04

Our system allows trust through a strong audit trail, dashboards, and verified records while being transparent yet private. Every transaction is time-stamped and traceable, making finances authentic and accountable for all stakeholders.

How It Works

Personalized Dashboards
Feature: Role-based views for students, shareholders, government officials, and citizens.
How it Works: Users log in → system detects role → displays only relevant financial data (departments, clubs, faculty, etc.).

Secure & Flexible Deployment
Feature: Cloud-agnostic setup with authentication.
How it Works: Modular framework works on AWS, Azure, or GCP → Firebase handles email verification → ensures secure access while adapting to any existing infrastructure.

Real-Time Data Visualization
Feature: Interactive dashboards with live updates.
How it Works: Looker Studio embedded → pulls data from source → users toggle views for insights.

AI-Powered Service Integration
Feature: External services seamlessly integrated.
How it Works: Tools like Cursor and Replit assist in connecting APIs, automating workflows, and enhancing functionality.

Structure

We have developed a flexible integration method tailored for colleges. Since each institution may store data differently and may use different cloud providers, our system is designed to adapt seamlessly to their existing infrastructure.

- AWS: If a college uses AWS, the website can be hosted on S3, with AWS tools like Amazon SES for email and other native services.
- Azure: For institutions on Azure, we can utilize Azure Blob Storage, Azure email services, and other native tools.
- GCP: Colleges using Google Cloud Platform can leverage Looker Studio, Google Cloud Storage, and other GCP solutions.

Our platform is cloud-agnostic and customizable, ensuring it meets the specific technical and operational requirements of each college.

Our platform is a personalized finance dashboard designed for a wide range of users to explore and understand college finances.

- Students: Access information relevant to their departments, clubs, and funding allocations.
- Stakeholders: Track key metrics like ROI, profits, and other performance indicators.
- Government: Monitor taxation, grants, and compliance-related financial data.
- Citizens / Prospective Students: Understand the general distribution of the college budget and priorities, giving insight into what the institution values most.

By offering personalized views, we ensure both transparency and privacy. Leveraging data visualization tools, we present complex financial data in an easy-to-understand and engaging format, making insights accessible to everyone.

How Does Our Solution Stand Out In The Market

Platform	Personalization	Multi-Role Views	Cloud Flexibility	Visualization & Transparency	What sets us apart
ERPNext	Moderate (customizable)	Students/Admin only	Cloud/on-prem	Standard dashboards	Limited role-specific views, generic finance visualization
Fedena	Moderate	Students/Teachers/Admin	Vendor cloud only	Basic dashboards	Limited stakeholder scope, not fully transparent
MasterSoft	Low	Admin-focused	Vendor cloud only	BI dashboards	Dashboards generic, no student/govt perspective
Campus365	Moderate	Admin/Teachers/Parents	Vendor cloud	Generic dashboards	Limited multi-stakeholder engagement
EduplusCampus	Moderate	Students/Admin/Finance	Azure/AWS only	Fee-focused dashboards	No role-specific insights for govt/citizens, limited transparency
Our Platform	**High – fully personalized per role**	**Students, Faculty, Admin, Govt, Citizens**	**Cloud-agnostic: AWS/Azure/GCP/on-prem**	**Interactive, highly visual, fully transparent**	-

Unique Selling Point

1. **Voting & Gamification**

- Students can vote on budgets or club spending → makes finance participatory.
- Light betting / prediction markets between departments → adds fun while still educational.

2. **Cloud & Non-Cloud Flexibility**

- Works whether a college stores data on-premises or on any cloud provider.
  Institutions don't need to migrate systems to use it.

3**. Forecasting & Alerts**

- Predicts future budgets and warns departments and clubs when funds may run out.
- pop-up or email alert when spending exceeds budget.

Tech Stack

Tech Stack Used in Prototype

- Frontend / Framework: Canva AI for code framework (HTML)
- Editor & Integration: VS Code, node js.
- Authentication & Security: Firebase (email verification, login)
- Data Visualization: Looker Studio (embedded dashboards with toggling)
- Integration Tools: Cursor, Replit (for APIs and external services)
- Cloud: (GCP)

How We Built It

- Designed the interface in Canva AI → exported as HTML.
- Customized and integrated services using VS Code.
- Added Firebase authentication for secure user access.
- Embedded Looker Studio dashboards for real-time financial insights.
- Used AI tools (Cursor & Replit) to streamline integration and workflows.
- Ensured cloud-agnostic deployment, allowing colleges to use their existing cloud setup.

possible Tech Stack

Cloud Platform	Storage	Authentication / Communication	Visualization / Analytics
AWS	S3	SES (Simple Email Service)	QuickSight
Azure	Blob Storage	Communication Services	Power BI
GCP	Cloud Storage	Identity Platform	Looker Studio / BigQuery
Oracle Cloud	Object Storage	Identity & Access Mgmt (IAM)	Oracle Analytics Cloud
IBM Cloud	Cloud Object Storage	App ID / Cloud Identity	Cognos Analytics
Alibaba Cloud	Object Storage Service (OSS)	DirectMail / RAM (Resource Access Mgmt)	Quick BI
DigitalOcean	Spaces (Object Storage)	No native auth (use Firebase / OAuth)	No native analytics (integrate Looker Studio / Power BI)
Heroku	No native storage (add-on: Amazon S3, Google Cloud Storage)	No native auth (use Firebase / Auth0)	No native analytics (external BI tools)

Monetization and Marketing plan

Monetization

- One-Time Setup Fee

A small deposit for onboarding & customization. Ensures smooth integration with the college's existing infrastructure. Covers initial deployment costs without burdening the institution.

- Low Commissions for maintenance

Instead of heavy recurring fees, we charge a minimal commission on transactions and budgets processed.

Marketing

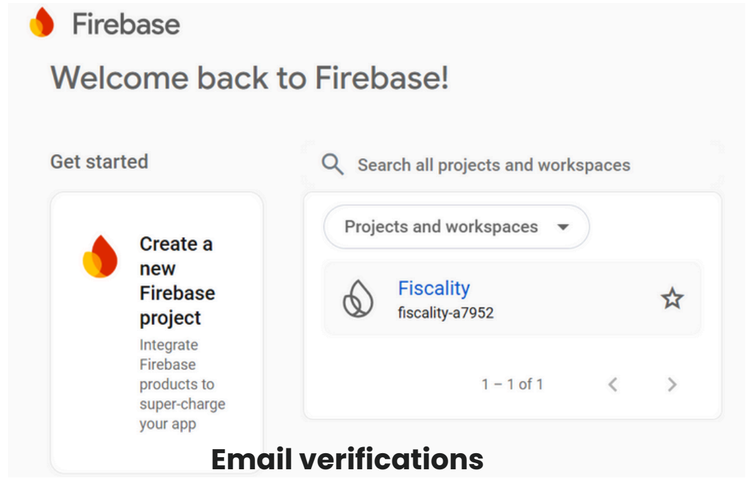
- Voting as an Event

Organize "Budget Battles" where students vote on club funding against others. Departments compete → voting dashboards become campus-wide events.

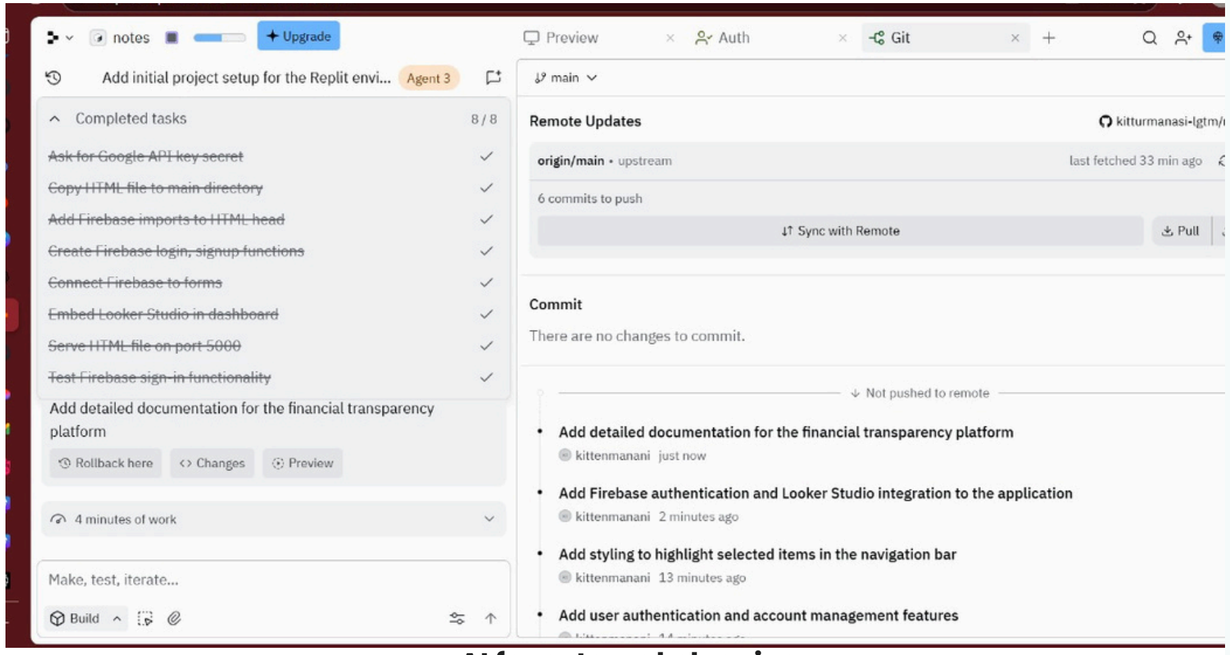
- Partnerships with student councils, government bodies.

Mock Screenshots

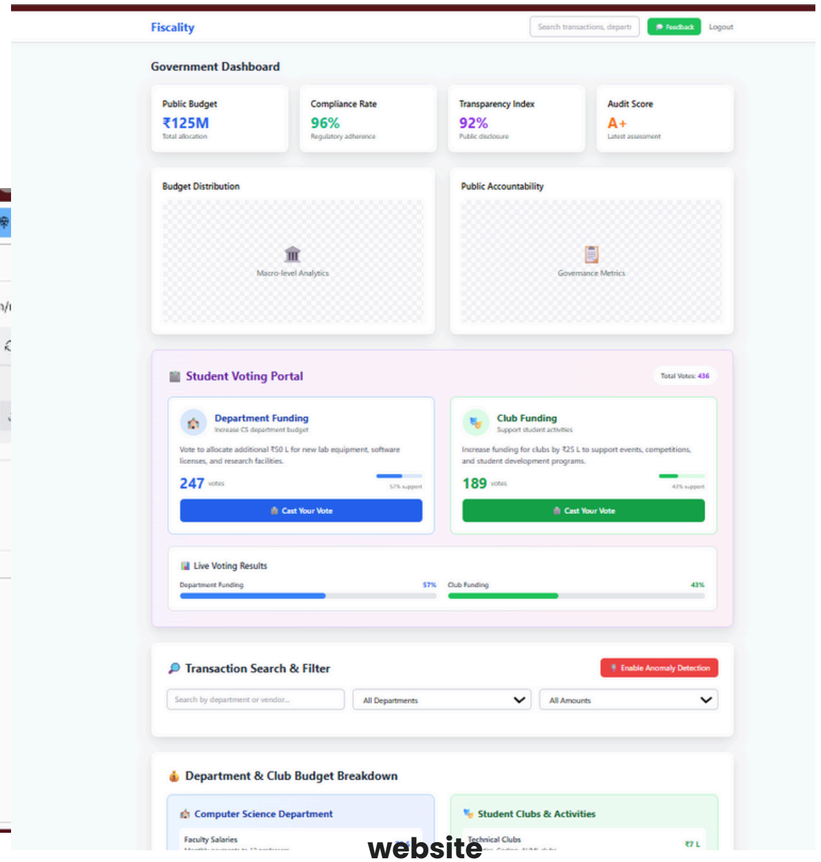
LookerStudio



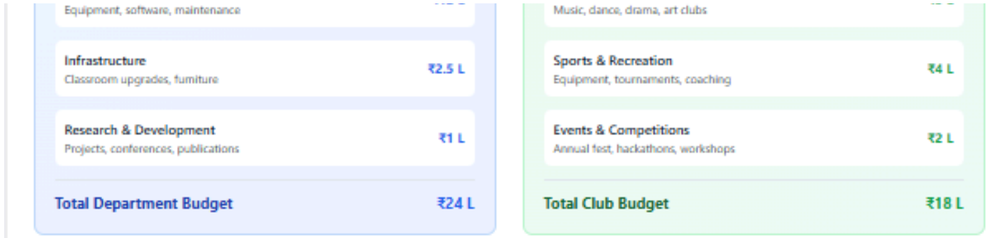
Email verifications

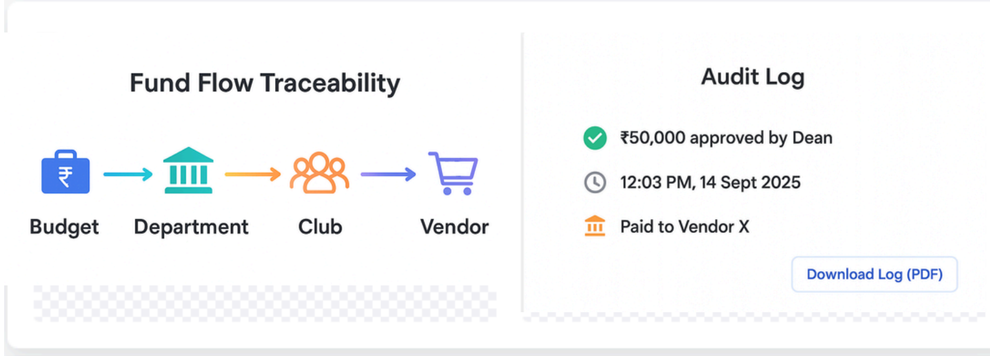


AI for external plug-ins

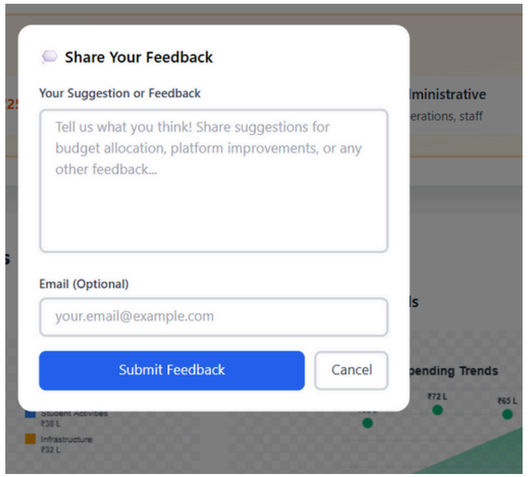


website

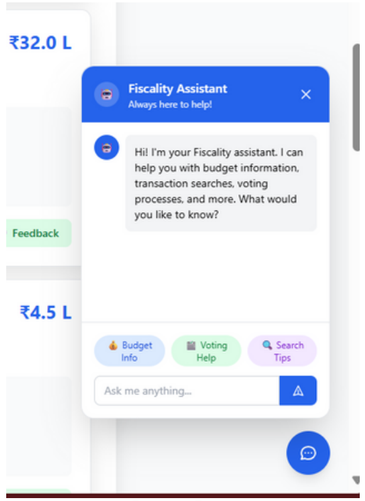




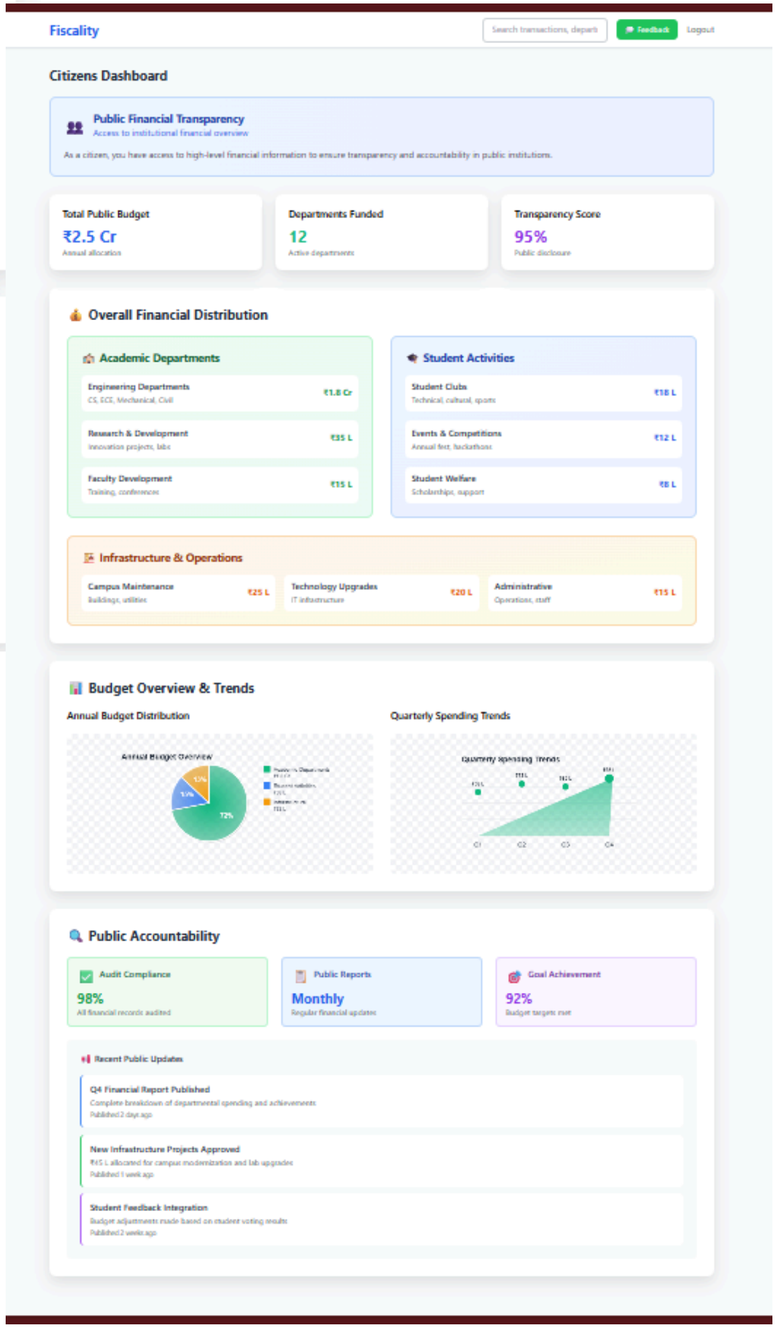
Traceability + Audit logs



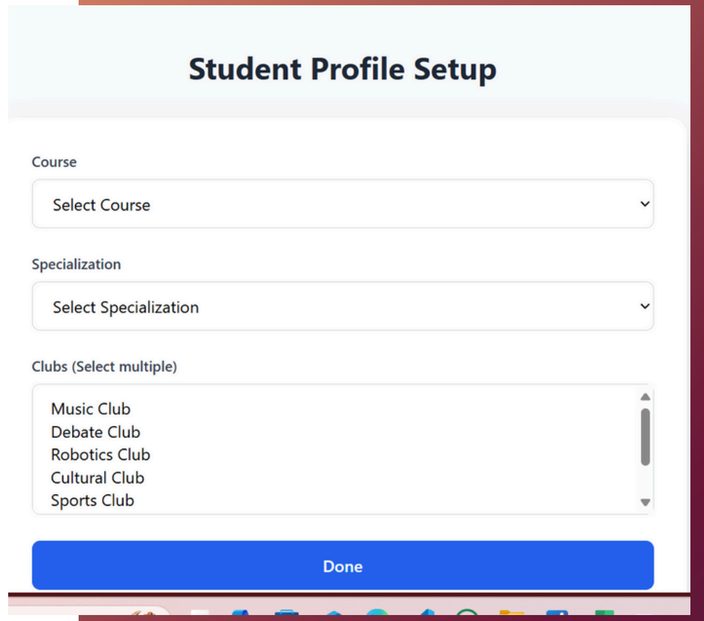
feedback box



chat box



citizen's dashboard



THANK YOU