TOP STUDENT PROJECTS

Best innovations from VTU, Muddenahalli

PROJECT TITLE
VTU MUDDENAHALLI SMART LIBRARY: AI-POWERED RESOURCE DESK



Team 23 - TENSOR TITANS

1. M.G.PALLAVI
2. ROOPA I MATH
3. VEENA.A.E
4. RANGNATH
5. BHARATHESH .B
6. VIGHNESH. M.H



PROBLEM STATEMENT

Traditional library systems are manual and do not provide online book management or personalized book recommendations, making it difficult for students and increasing the workload of librarians.

SOLUTION

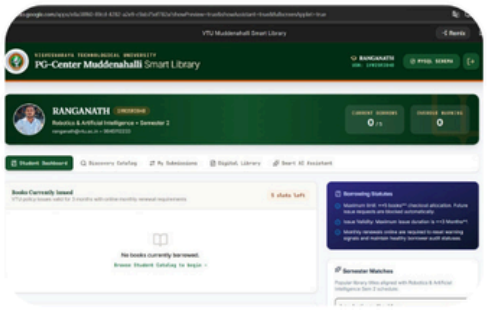
Develop a Smart Library Management System with student and admin portals that automates book management, allows online renewals, and provides AI-based personalized book recommendations using the Gemini API.

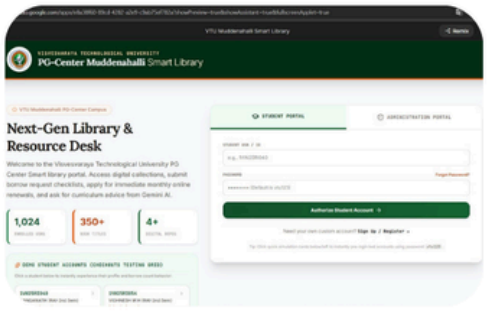
The system enables students to search, reserve, and renew books through an online portal.

Administrators can efficiently manage book inventory, issue/return records, and user accounts.

Automated notifications are sent to users regarding due dates, overdue books, and reservation status.

The AI recommendation engine analyzes users' borrowing history and preferences to suggest relevant books, enhancing the reading experience.





SCAN ME

Technology stacks:

- Raspberry Pi
- Web RESTful APIs
- Server-side Gemini API
- MySQL
- CSS
- HTML