

I have to design an Academic Information Management System for my college. It will be of the same style as I am giving right now. I will go page by page and explain each component of what is the architecture of the page and what it does. I will also give you some general instructions of what you need to observe. Based on all of the information, create a detailed plan to design a web app for this.

#### General instruction 1:

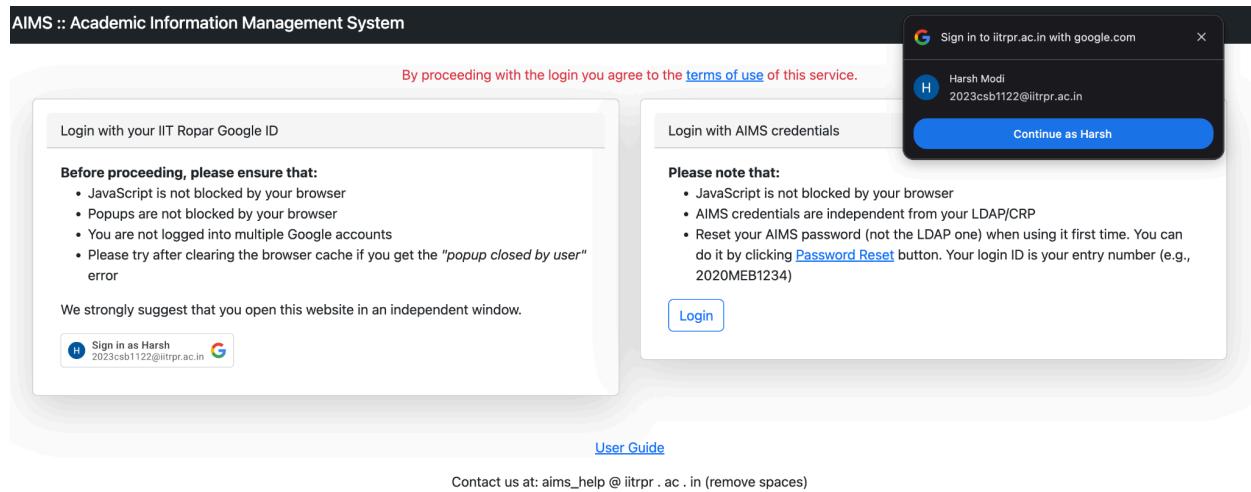
The images I will give are of an outdated old AIMS portal and we have to create a new modern one using MERN stack. So use the photos as the source of inspiration on what needs to be done and design in a modern modular way.

#### General Instruction 2:

For each page make sure you design it in a way so that an admin can control what is being displayed on the page. For example a student is viewing the courses he can enroll in, then an administrator must be able to list the courses. Similarly make sure that you keep an admin in mind for this.

#### Login/ Signup System:

Simple google login. Setup a database to store the user values. Make sure to use encryption for storing the passwords.



#### Landing page:

## Academic Information Management System.

Please DO NOT edit or manipulate the URLs or requests when using this application. Doing so may lock your account.

Please proceed by choosing a menu item from the top bar.

Before contacting @aims\_help for any issues, please check the [User Guide](#) for solution.

### NOTE:

- Please directly contact the course instructor for any changes to your enrolment requests.
- We have not yet fully imported your past enrolments data into this system. You may not get to see grades for some of your past courses.

Profile photo on the navbar in itself is not needed. Just keep a profile where the roll number is written and keep an icon of their pfp there. The profile schema should have name , roll number, pfp, email id and keep the password in it to keep it simple.

## Course Feedback

### Course Instructor Feedback

#### Please note the following before submitting:

- All fields marked with a '\*' are mandatory.
- Feedback for one course instructor can be submitted only once.
- When there are more than one instructors teaching a course, please choose only those instructors (one at a time) whose classes you attended.
- ALL feedback is anonymous.

\* Feedback type

--Select-- 

\* Select the course instructor

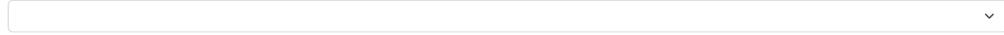
 

Photo not found! 

## **\* Feedback type**

✓ --Select--

Mid-sem

End-sem

\* Select the course instructor

- ✓ Introduction To Environmental Science And Engineering (GE111) -- Vishwajeet Mehandia
- Introduction To Environmental Science And Engineering (GE111) -- Arghya Banerjee
- Introduction To Environmental Science And Engineering (GE111) -- kishant Kumar
- Databases (CS301) -- Manish Kumar
- Analysis and Design of Algorithms (CS302) -- Anil Shukla**
- Operating Systems (CS303) -- Jagpreet Singh
- HUMAN GEOGRAPHY AND SOCIAL NEEDS (HS202) -- Chandan Behera
- Professional Ethics (HS104) -- Sreekumar Jayadevan
- SOCIAL COMPUTING AND NETWORKS (CS522) -- Swapnil Dhamal
- Industrial Management (HS301) -- Amritesh Amritesh
- Industrial Management (HS301) -- Ravi Kumar
- Computer Networks (CS304) -- Basant Subba
- Software Engineering (CS305) -- Balwinder Sodhi
- Theory of Computation (CS306) -- Apurva Mudgal
- Development Engineering Project (CP301) -- Puneet Goyal
- Capstone Project I (CP302) -- Neeraj Goel

Course feedback is active for a few days and a person has no idea whether it is currently active or not until he tries to submit it. Make sure you implement a way in which the course feedback only appears when the administrator enables it. It also contains feedback for previous semesters make sure it only fetches the current semester feedbacks. Also make sure if once the feedback is filled for that cycle for a person, they disappear from the list

Student Record

AIMS Academic Info ▾ Courses ▾ Fees ▾ Slotwise Courses Student Record Course Feedback Profile Photo Help 2023CSB1122 (Student) 

**Student Details**

First Name HARSH	Last Name MODI	Roll No. 2023CSB1122	Degree B.Tech
Email 2023csb1122@iitrpr.ac.in	Department Computer Science and Engineering	Year-of-entry 2023	Category
Minor/Concentration Specialization	Degree Type B.Tech	Current Status Registered	

[Academics](#) [Documents](#)

**Academics**

NOTE: Some of the grades shown here may be pending approval by the senate. The records confirmed by the academic section will take precedence over anything shown here.  Show only Enrolled

S#	Course	Enrol.	Enrol. status	Course cat.	Grade	Attd.	
<b>Academics for Credit Courses</b>							
Academic session: 2023-I   SGPA: 8.5   Credits registered: 18   Earned Credits: 18   Cumul. Earned Credits: 18   CGPA: 8.5							
1	MA101 - CALCULUS (3-1-0-5-3) (Completed)	Credit	Enrolled	SC	A-	<a href="#">0%</a>	
2	CY101 - CHEMISTRY FOR ENGINEERS (3-1-2-6-4) (Completed)	Credit	Enrolled	SC	A-	<a href="#">0%</a>	
3	GE103 - INTRODUCTION TO COMPUTING AND DATA STRUCTURES ( 3-0-3-15-2-4.5) (Completed)	Credit	Enrolled	GR	B	<a href="#">0%</a>	
4	HS103 - PROFESSIONAL ENGLISH COMMUNICATION (2-0-2-5-3) (Completed)	Credit	Enrolled	HC	A-	<a href="#">0%</a>	
	(https://www.iitrpr.ac.in/aims/index.html#std.detail - 0-2-1-1) (Completed)	Credit	Enrolled	NN	A	<a href="#">0%</a>	
Academic session: 2024-II   SGPA: 8.47   Credits registered: 19   Earned Credits: 19   Cumul. Earned Credits: 75   CGPA: 8.13							
1	CS204 - Computer Architecture (3-1-2-6-4) (Completed)	Credit	Enrolled	PC	B	<a href="#">0%</a>	
2	CS202 - Programming Paradigms and Pragmatics (3-1-2-6-4) (Completed)	Credit	Enrolled	PC	B	<a href="#">0%</a>	
3	GE108 - Basic Electronics (2-2/3-2-13/3-3) (Completed)	Credit	Enrolled	GR	A-	<a href="#">0%</a>	
4	MA202 - Probability and Statistics (3-0-0-6-3) (Completed)	Credit	Enrolled	SC	B	<a href="#">0%</a>	
5	BM101A - Biology for Engineers (3-1-0-5.00-3.00) (Completed)	Credit	Enrolled	SC	A-	<a href="#">0%</a>	
6	GE109 - Introduction to Engineering Products (0-0-2-1-1) (Completed)	Credit	Enrolled	GR	A-	<a href="#">0%</a>	
7	NO104 - NSO IV (0-0-2-1-1) (Completed)	Credit	Enrolled	NN	A	<a href="#">0%</a>	
Academic session: 2025-I   SGPA: 7.86   Credits registered: 21.5   Earned Credits: 21.5   Cumul. Earned Credits: 96.5   CGPA: 8.07							
1	GE111 - Introduction To Environmental Science And Engineering (3-1-0-5-3) (Completed)	Credit	Enrolled	GR	A-	<a href="#">0%</a>	
2	CS301 - Databases (3-1-2-6-4) (Completed)	Credit	Enrolled	PC	B	<a href="#">0%</a>	
3	CS302 - Analysis and Design of Algorithms ( 3-1-0-5-3) (Completed)	Credit	Enrolled	PC	B-	<a href="#">0%</a>	
4	CS303 - Operating Systems (3-1-2-6-4) (Completed)	Credit	Enrolled	PC	B	<a href="#">0%</a>	
5	HS202 - HUMAN GEOGRAPHY AND SOCIAL NEEDS (1-1/3-4-11/3-3) (Completed)	Credit	Enrolled	HC	B-	<a href="#">0%</a>	
6	HS104 - Professional Ethics (1-1/3-1-13/6-1.5) (Completed)	Credit	Enrolled	HC	B	<a href="#">0%</a>	
7	CS522 - SOCIAL COMPUTING AND NETWORKS (2-0-2-5-3) (Completed)	Credit	Enrolled	PE	B	<a href="#">0%</a>	
Academic session: 2025-II   SGPA: 0   Credits registered: 20   Earned Credits: 0   Cumul. Earned Credits: 96.5   CGPA: 8.07							
1	HS301 - Industrial Management (3-1-0-5-3) (Enrolling)	Credit	Enrolled	HC	NA	<a href="#">0%</a>	Action ▾
2	CS304 - Computer Networks (3-1-2-6-4) (Enrolling)	Credit	Enrolled	PC	NA	<a href="#">0%</a>	Action ▾
3	CS305 - Software Engineering (3-0-2-7-4) (Enrolling)	Credit	Enrolled	PC	NA	<a href="#">0%</a>	Action ▾
4	CS306 - Theory of Computation (3-1-0-5-3) (Enrolling)	Credit	Enrolled	PC	NA	<a href="#">0%</a>	Action ▾
5	CP301 - Development Engineering Project (0-0-6-3-3) (Enrolling)	Credit	Enrolled	CP	NA	<a href="#">0%</a>	Action ▾
6	CP302 - Capstone Project I (0-0-6-3-3) (Enrolling)	Credit	Enrolled	CP	NA	<a href="#">0%</a>	Action ▾
<b>Academics for Credit for Concent. Courses</b>							
<b>Academics for Credit for Minor Courses</b>							

Take idea for the schema from here for a student and try to design it better. It looks pretty bland.

## Slotwise Courses

Load for session

✓ 2025-II : current session (2025-12-04 to 2026-05-30)  
 2025-S : upcoming session (summer)  
 2026-I : next session (regular)

Coordinator

AIMS Academic Info Courses Fees Slotwise Courses Student Record Course Feedback Profile Photo Help 2023CSB1122 (Student)

**Slotwise Courses**

Load for session

2025-II : current session (2025-12-04 to 2026-05-30)  Other

S#	Course (Code/Title/LTPCS)	Coordinator
Slot HSS or Science or Math elec 3rd and/or 4th year B.Tech		
1	<a href="#">EE510 : HIGH VOLTAGE ENGINEERING (3-1-4-7-5)</a>	C. Reddy
2	<a href="#">CH504 : NUMERICAL METHODS FOR ENGINEERS (3-0-2-7-4)</a>	Rajagopal Vellingiri
3	<a href="#">PH554 : NONLINEAR OPTICS (3-0-0-6-3)</a>	Kailash Jena
4	<a href="#">ME515 : FINITE ELEMENT METHODS IN ENGINEERING (3-1-0-5-3)</a>	Rajendra Kumar Munian
5	<a href="#">MA628 : Financial Derivatives Pricing (3-0-2-7.00-4.00)</a>	Arun Kumar
6	<a href="#">MA517 : DISTRIBUTED ALGORITHMS (3-0-0-6.00-3.00)</a>	Kaushik Mondal
7	<a href="#">CE406 : STEEL STRUCTURES (3-1-0-5-3)</a>	Aditya Rajput
8	<a href="#">MM309 : Polymers and Composites (2-2/3-0-10/3-2)</a>	Ravi Prasad
9	<a href="#">CY516 : Elementary Principles of Equilibrium Statistical Mechanics and Stochastic Processes (3-0-0-6.00-3.00)</a>	Sudipta Sinha
10	<a href="#">PH303 : OPTICS &amp; PHOTONICS (3-1-0-5.00-3.00)</a>	Vishwa Pal
11	<a href="#">EE524 : DETECTION AND ESTIMATION THEORY (3-0-0-6-3)</a>	Jyotindra Sahambi
12	<a href="#">HS495 : EMOTION REGULATION (3-0-0-6-3)</a>	Parwinder Singh
13	<a href="#">MA614 : APPLIED LINEAR ALGEBRA AND MATRIX ANALYSIS (3-1-2-6-4)</a>	SAIRAM KALIRAJ
14	<a href="#">HS506 : Brain and Language (3-0-0-6-3)</a>	Kamal Chaudhary
15	<a href="#">CY458 : Biomaterials (3-0-0-6.00-3.00)</a>	Yashveer Singh
16	<a href="#">HS472 : INTERNATIONAL ECONOMICS AND FINANCE (3-0-0-6-3)</a>	Smruti Behra

Create a courses schema here which has course code, course name, instructor, slot, credits , semester and all possible relevant information and this page is just a get request for that.

Leave fees for now

Courses Page

IMS Academic Info ▾ Courses ▾ Fees ▾ Slotwise Courses Student Record Course Feedback Profile Photo Help 2023CSB1122 (Student) 

Find Existing Courses		Courses Offered For Enrolment		Courses Available For Offering		L-T-P		Status
de	Title							
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Search"/> <input type="button" value="Reset"/>

Results

S#	Course	Status
Nothing to show yet!		

Offered Courses

Offering Department	Code	Title	Acad session	L-T-P	Instructor	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="checkbox"/> Other	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="button" value="Search"/> <input type="button" value="Reset"/>

If you do not find the desired results, please try specifying fewer criteria to widen the search results. All non-empty search fields are used **together** when searching.

Results

Nothing to show yet!						
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Courses for enrollment page. Make sure the schema contains everything from here.

AIMS Academic Info ▾ Courses ▾ Fees ▾ Slotwise Courses Student Record Course Feedback Profile Photo Help 2023CSB1122 (Student) 

Find Existing Courses		L-T-P		Status	
Code	Title				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="button" value="Search"/> <input type="button" value="Reset"/>

Results

S#	Course	Status
Nothing to show yet!		

Courses for offering page.

Academic Info for this

localhost WhatsApp Inbox (12,641) - 2023csb AIMS Prompt - Google New tab AIMS v2

iitpr.ac.in/aims/index.html#add.dates

AIMS Academic Info Courses Fees Slotwise Courses Student Record Course Feedback Profile Photo Help 2023CSB1122 (Student)

2025-II : current session (2025-12-04 to 2026-05-30)  
 2025-S : upcoming session (summer)  
 2026-I : next session (regular)

Other

Events dates for academic session (I = First Semester, II = Second Semester, S=Summer): YYYY-S

Event	Start Date	End Date
Academic session	dd/mm/yyyy	dd/mm/yyyy
Course pre-registration	dd/mm/yyyy	dd/mm/yyyy
Classes	dd/mm/yyyy	dd/mm/yyyy
Course drop	No data for 2025-S session X	dd/mm/yyyy
Midsem course feedback	dd/mm/yyyy	dd/mm/yyyy
Mid sem exams	dd/mm/yyyy	dd/mm/yyyy
Withdraw	dd/mm/yyyy	dd/mm/yyyy
End sem exams	dd/mm/yyyy	dd/mm/yyyy
Course feedback	dd/mm/yyyy	dd/mm/yyyy
Grades submission	dd/mm/yyyy	dd/mm/yyyy
Show feedback (midsem)	dd/mm/yyyy	N/A
Show feedback (endsem)	dd/mm/yyyy	N/A
Result Declaration	dd/mm/yyyy	N/A

Design this page in a way such that the admin can simply upload a pdf and these values are read from the pdf itself and filled into the schema. Create a schema for this as well