



PANIMALAR ENGINEERING COLLEGE

An Autonomous Institution
Affiliated to Anna University, Chennai



TECHDIVATHON 2K25



PlanIt

TEAM NAME: HACKASTIC

DOMAIN: TECHNOLOGY

COLLEGE NAME: SRM UNIVERSITY

TEAM MEMBERS

1. Mrinmayi Verma
2. Keerthi Lakshmi
3. Charumathi Sri P
4. Varshini K



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Problem statement

Gen Z and Gen Alpha students struggle with focus and engagement in digital education due to constant distractions and dopamine-driven platforms. Despite abundant online resources, they feel overwhelmed. There is a need for an edtech solution that promotes focus, mindfulness, and motivation, enhancing learning outcomes and mental clarity.





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Solution

PlanIt Reminds users to take regular breaks, practice deep breathing, and be mindful of their mental state to reduce the addictive pull of digital platforms.



PlanIt encourage users to set clear goals and time limits for study sessions. Time-blocking methods and daily planners guides them to balance learning with other activities without overwhelming themselves.



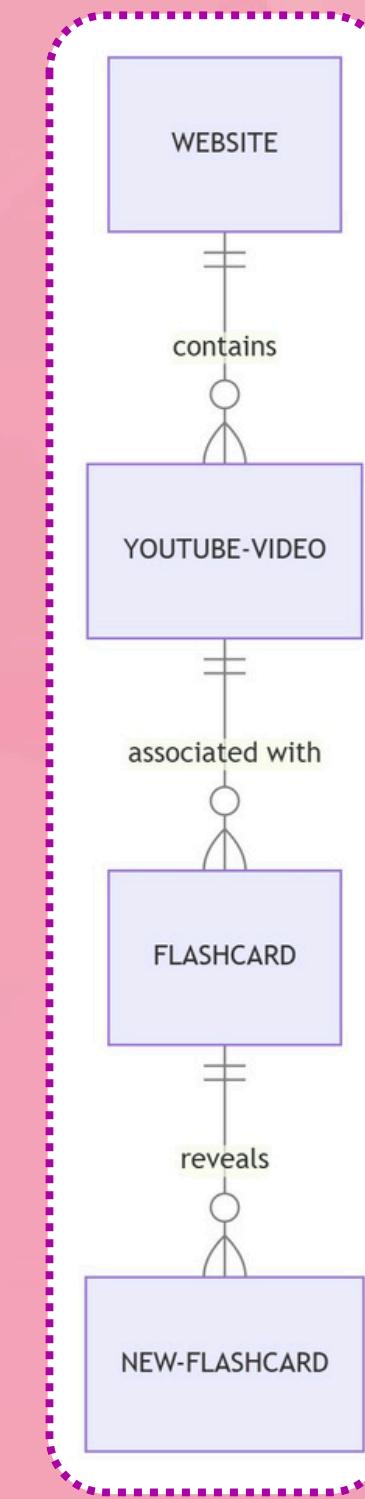
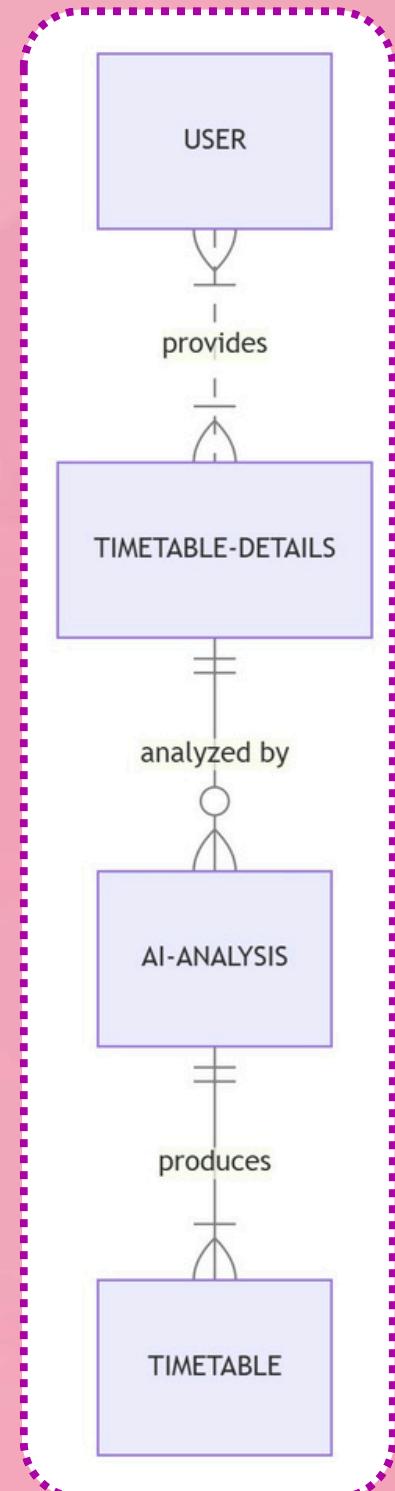
PlanIt has teh following technology stack: Html, Css, Javascript, Streamlit, Gemini API, Groq API, Python flask, Mysqlite



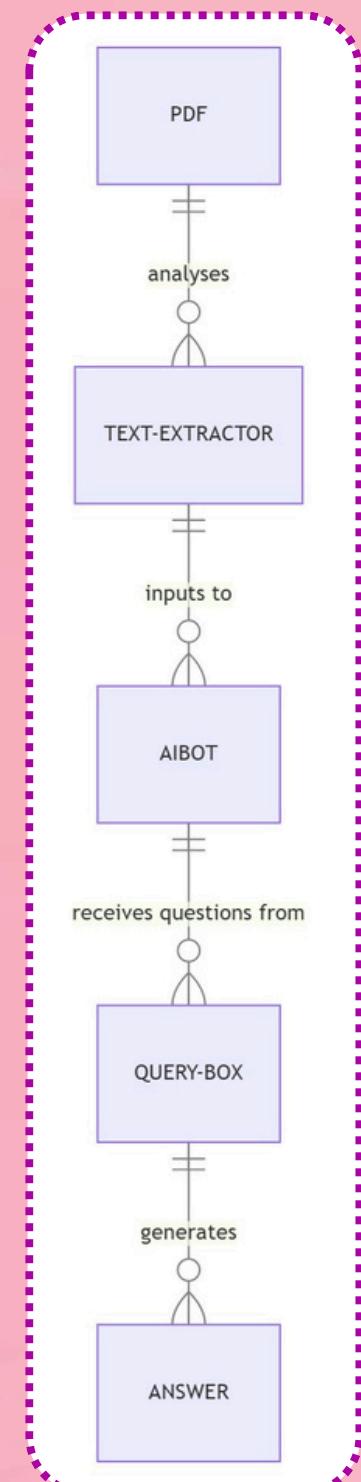
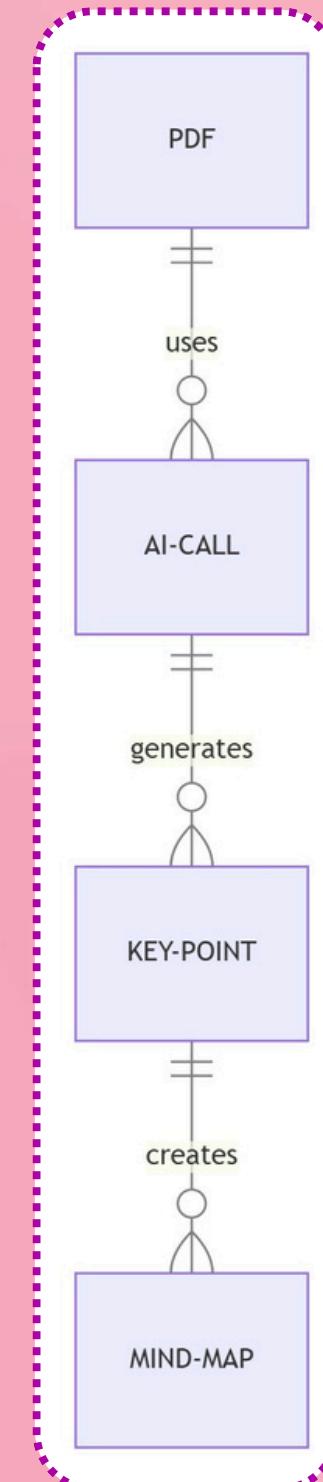
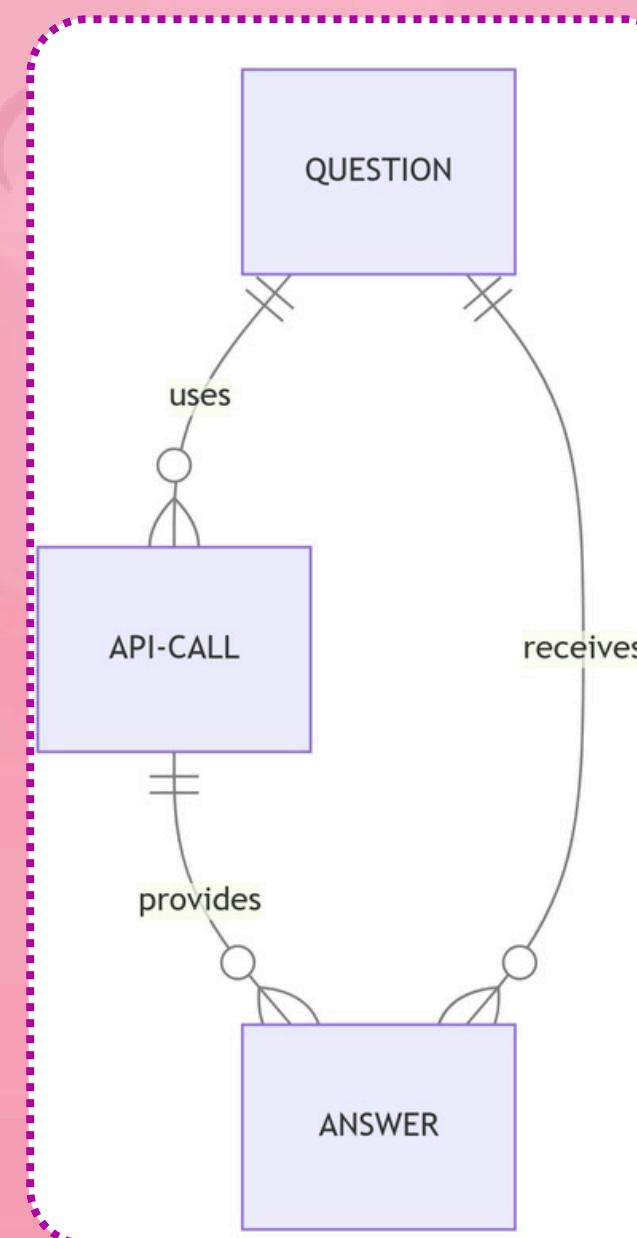


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Work Diagram



PeakPlanner

CalmSphere

Zeni

Mapify

FileTalk



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Key Features

GOALS!

PeakPlanner is an AI-Powered Statistical tool which analyses and organizes student time and attention through practical research based time table.

CalmSphere is an Aesthetic Ambience which is designed to bring the time tested benefits of yoga to the students.



Zeni is an AI-Powered Supervised comfort tool which communicates and guides the students through stress and crisis.

Mapify is an AI-Powered Graphical tool which is designed to generate the key point and present them in form of a mind map in accordance to the uploaded pdf.



Hey :)

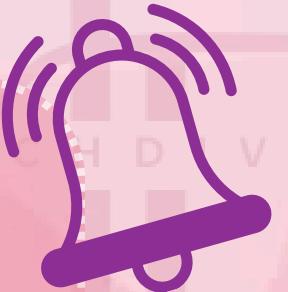


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Key Features

FocusFlow is an evolved Pomodoro Timer based on the well researched 25 mins study rule incorporated with mindwave vibration music and doubt clearance chatbot.



GeekHub is a Healthy Intellectual Community where the students can interact with each other through posts, comments and likes.



FileTalk is an AI-Powered Interaction Tool which helps the student to interact with pdf files and analyze it.



CharityBridge is a Society Empowering Platform where the gap between the education privileged and unprivileged is erased through a thoughtful donations.





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Key Features

ReviewRealm(Extension)

ReviewRealm is a Feedback Service where the admins can analyse the compliments and complains towards PlanIt given by the users.



ReviewRealm is unique feature because of it's ever-evolving and progressive data analysis of the input from the users is used to advance PlanIt.





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Deployment & Scalability

Deployment Architecture

- Frontend (**React & HTML/CSS/JS**) → Cloud Storage + Cloud CDN
- Backend (**Flask API + SQLite + Gemini & Groq API Integration**) → Cloud Run
- Streamlit App (**Interactive UI for AI Responses**) → Cloud Run
- Database (**SQLite**) → Cloud SQL
- APIs (**Gemini & Groq**) → Integrated in the Flask backend.



Scalability

- **Cloud Run & GKE Auto-Scaling:** Handles thousands of concurrent users by dynamically adding instances.
- **Cloud CDN for React Frontend:** Delivers static files globally with low latency.
- **Database Read Replicas:** Improves response time for high-read workloads.
- **Cloud SQL (MySQL/PostgreSQL)** scales beyond millions of rows.
- **Connection Pooling:** Avoids Flask opening too many database connections.





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Live Demo or Screenshots

The screenshot shows the PlanIt homepage with a dark background and a purple header bar containing navigation links: PlanIt, PeakPlanner, Zeni, CalmSphere, Mapify, FocusFlow, FileTalk, GeekHub, CharityBridge, and ReviewRealm. The main content area features a large "Welcome to PlanIt" heading in white, followed by the subtext "Your ultimate AI-powered Educational Environment". Below this is a purple callout box containing an icon of an open book and the text "ABOUT What PlanIt Is About". The text describes PlanIt as an AI-powered study wingman that helps users ace their studies and crush their goals. At the bottom of the page, there is a copyright notice: "© 2025 PlanIt. All rights reserved."

PlanIt
Homepage

Live Demo-
<https://drive.google.com/file/d/16PEXc53rCHMDFJMvyqVnQYsuJwKCQzGf/view?usp=sharing>



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AI-Powered Study Timetable Generator

Fill out the details below to generate your personalized study timetable:

Hours per day available for study:
9

Number of subjects:
4

Subject(s) to focus on more:
Math

Productive hours of the day:
10:00 AM - 1:00PM

Duration (in days):
7

Other commitments / Any Alterations(optional):

Subjects (comma-separated):
Math, Science, English, Social Studies

Generate Timetable

Time Slot	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
09:00 - 10:00	Math						
10:00 - 10:15	Break						
10:15 - 11:15	Math						
11:15 - 11:30	Break						
11:30 - 12:30	Science	English	Social Studies	Science	English	Social Studies	Math
12:30 - 13:00	Lunch						
13:00 - 14:00	English	Social Studies	Science	English	Social Studies	Science	Science
14:00 - 14:15	Break						
14:15 - 15:15	Social Studies	Science	English	Social Studies	Math	English	English
15:15 - 15:30	Break						
15:30 - 16:30	Math	Math	Math	Math	Science	Math	Social Studies
16:30 - 16:45	Break						
16:45 - 17:45	Science	English	Social Studies	English	Social Studies	Science	Math

i feel lowi got low marks

Sweetheart, I'm so sorry to hear that you're feeling down about your marks 😢. Remember, one bad test or grade doesn't define your worth or intelligence 💪! You are so much more than that. Let's take a deep breath together and shake off those negative thoughts 🤗. You did your best with what you knew at the time, and that's something to be proud of 🌟. Don't let this one setback define your self-worth 💔. What can I do to help you feel better right now? Would you like to talk about what's going on, or would you prefer some calming vibes and a virtual hug 🥰? Remember, I'm here for you, and we can get through this together 🙋‍♂️. And hey, let's focus on the positives! What did you do well on the test? What skills or strengths did you use that you can build on? Your uniqueness is what makes you special, and don't let anyone (including yourself) forget it ❤️.

oh thanks

Aw, you're so welcome, sweetie! ❤️ It means the world to me that you're here, and I'm honored to be a part of your day. Remember, you're doing amazing just as you are, and I'm here to remind you of it whenever you need it. 🌟 If you ever want to chat, share your thoughts, or just need someone to listen, I'm all ears... or in this case, all text! 📱 Feel free to reach out anytime, and let's spread some positivity and love around! 🌟

Type your message...

Send

PlanIt
PeakPlanner

PlanIt
Zeni



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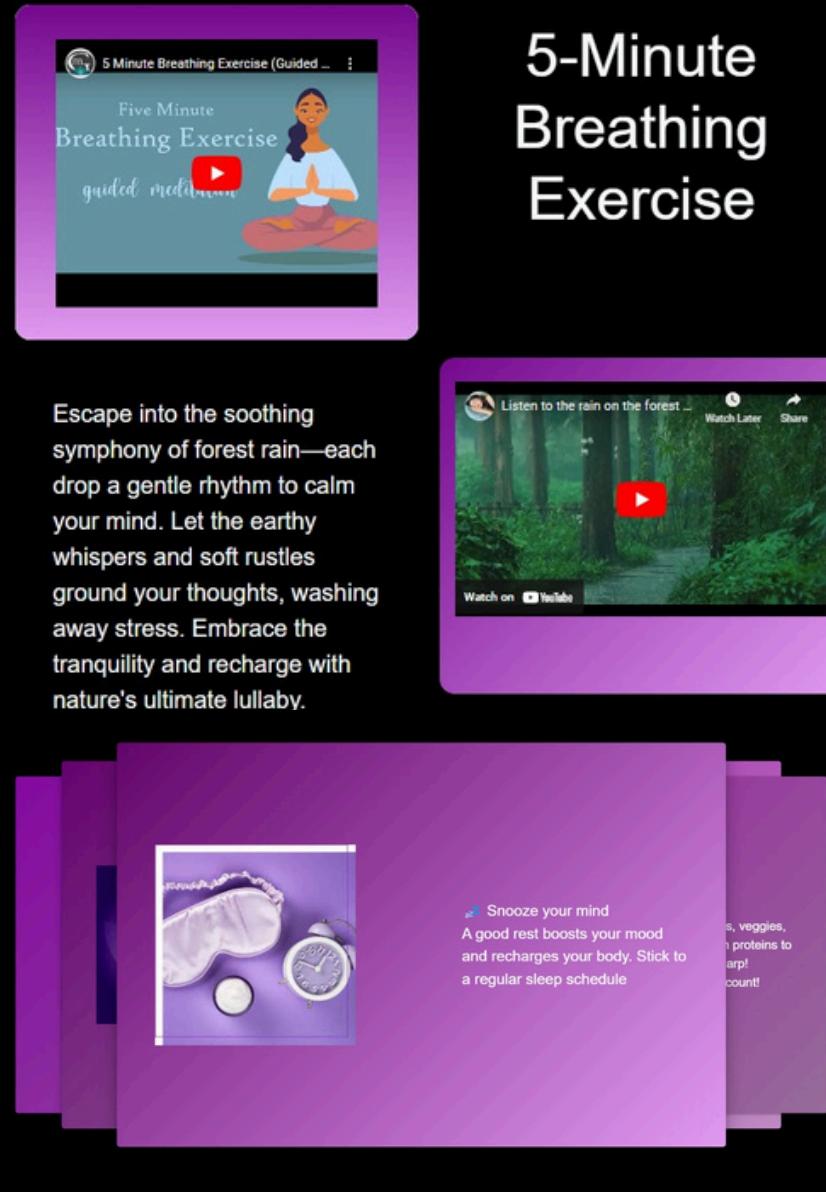
Meditate through Life

Relax and rejuvenate with our meditation sessions.

5-Minute Breathing Exercise

Escape into the soothing symphony of forest rain—each drop a gentle rhythm to calm your mind. Let the earthy whispers and soft rustles ground your thoughts, washing away stress. Embrace the tranquility and recharge with nature's ultimate lullaby.

Snooze your mind
A good rest boosts your mood and recharges your body. Stick to a regular sleep schedule.



Mind Map Maker

Upload a PDF to generate a mind map using Google's Gemini Pro.

lech101.pdf

Extract key points

Solutions

1.1 Types of Solutions

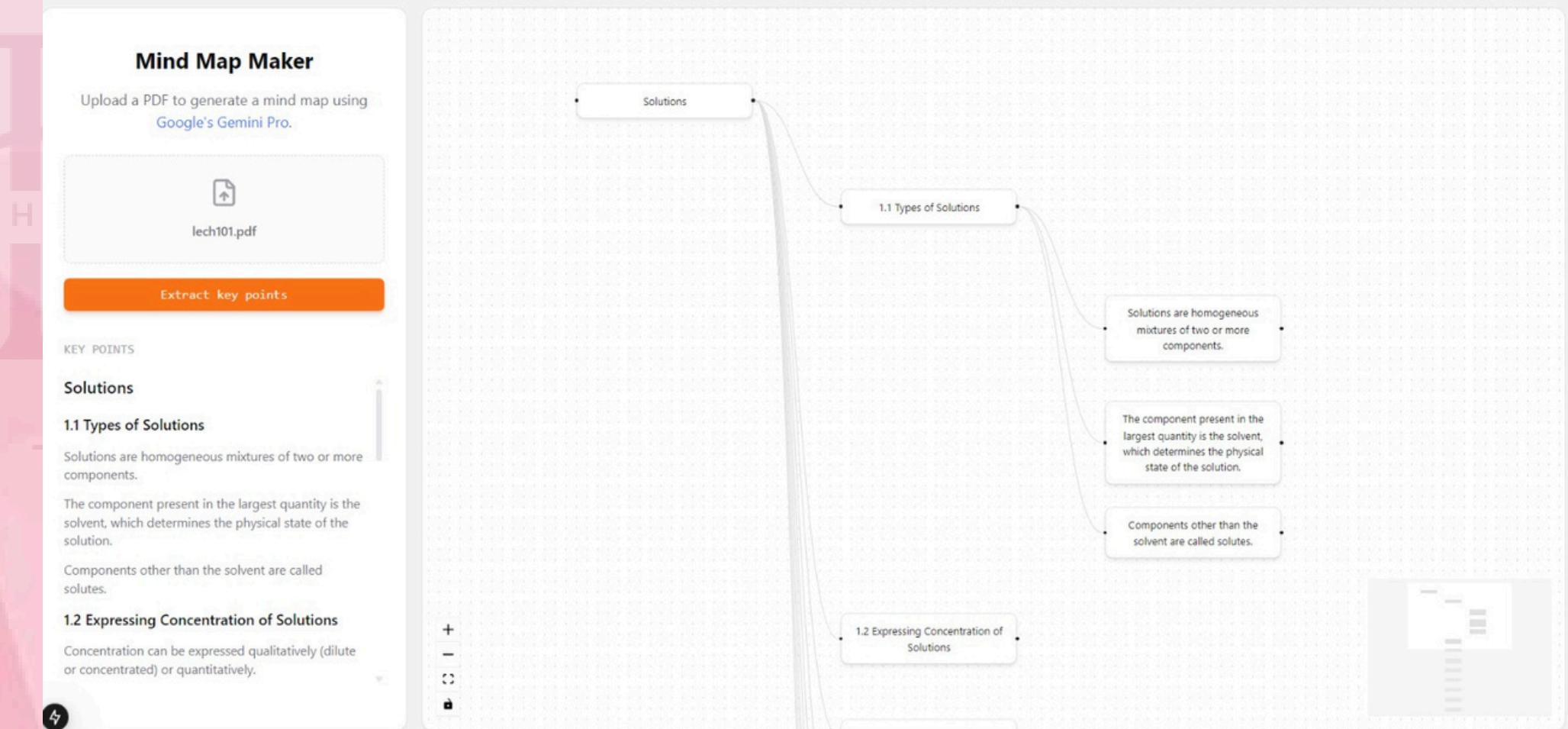
Solutions are homogeneous mixtures of two or more components.

The component present in the largest quantity is the solvent, which determines the physical state of the solution.

Components other than the solvent are called solutes.

1.2 Expressing Concentration of Solutions

Concentration can be expressed qualitatively (dilute or concentrated) or quantitatively.



PlanIt: CalmSphere

PlanIt: Mapify



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chill lofi
Spotify

Pomodoro Timer

Study Time Break Time

Hey there, superstar! ☀️ What's on your mind today? Ready to dive into something exciting, or is there a tricky concept I can help you totally conquer? Let's make this fun and productive—what's the mission?

00:00

Waiting to start...

Select Theme

Theme 1

Upload Custom Background

Ask me anything...

Upload PDF

Choose a PDF file

Drag and drop file here
Limit 200MB per file • PDF

Browse files

Introduction to Neurobiology and Its Significance in Artifi... 72.9KB

Chat With Your PDF

Assistant: Hello! Upload a PDF and ask me anything about it. 😊

You: Summarize the content of the PDF.

Assistant: The PDF discusses the role of neurobiology in understanding and developing artificial intelligence (AI). Neurobiology, the study of the nervous system and its processes, focuses on how neurons interact to transmit signals, form networks, and enable behaviors such as perception, learning, memory, and decision-making. The principles of neurobiology have profoundly influenced the development of AI, particularly neural networks, which are modeled after biological networks in the brain.

The PDF highlights how neurobiology offers valuable insights into mechanisms like learning and adaptation, which have been adapted into AI to improve machine learning algorithms. Neurobiology-inspired AI has enabled advancements in brain-computer interfaces, prosthetics controlled by neural signals, and technologies that restore lost sensory functions.

The document also emphasizes the importance of understanding the limits and capabilities of the human brain to design AI systems that complement human intelligence rather than replace it. Additionally, it raises ethical considerations of replicating cognitive functions and integrating AI into sensitive domains.

The conclusion is that neurobiology serves as a source of inspiration and a roadmap for AI development. By studying the mechanisms of natural intelligence, researchers can create more sophisticated, adaptable, and ethically aligned AI systems, which advances technology and deepens our understanding of intelligence itself.

Ask a question about your PDF:

Summarize Give in Points Mnemonics to Remember Make it Understandable Generate Questions, MCQs

PlanIt
FocusFlow

PlanIt
FileTalk



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Welcome, mrinmayi

Select a Domain

- Maths
- Science
- Language
- Social Science
- Geography

maths Posts

Create New Post

What's on your mind?

Choose File No file chosen Create Post

mrinmayi
this is my maths assignment
Attached File: sem_4_maths_assignment_1.pdf

1 Comments Write a comment... Comment

PlanIt

GeekHub
(Domains)

PlanIt

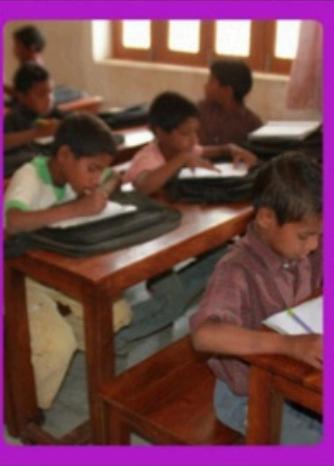
GeekHub
(Post,Like,Comment)



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Education is a right, not a privilege. Your donation can change a life today!



Support a Student's Future ↗ ⓘ

Join us in making education accessible! Donate through our club to help students in need of study materials or funds. Your kindness can change a life! ❤️

[Donate](#)

Our donation club is a nonprofit organization committed to uplifting underprivileged communities through vital resources, educational support, and healthcare assistance. Our volunteers work in various domains, including management, information verification, fieldwork, IT, advertisement, and contact, contributing their skills to ensure the smooth operation of the club. As a constantly evolving and collaborative group, we are dedicated to shaping the future of children by providing them with the educational opportunities they deserve. Our volunteers work with a sense of purpose, integrity, and compassion, making a lasting impact on the communities we serve.

[Join Us Today](#)

DISCOVER

Non-Governmental Organization (NGO)

A Non-Governmental Organization (NGO) is a non-profit, voluntary group that operates independently of the government to address social, environmental, humanitarian, or developmental issues. NGOs work towards the welfare of communities by providing support, advocacy, and resources in areas such as education, healthcare, human rights, and disaster relief.



GOONJ
GOONJ addresses basic needs and education in rural areas. They run "Education for All" distributing materials and building infrastructure, as well as supporting education, hygiene, and disaster relief.

[EXPLORE](#)

PlanIt
CharityBridge
(Description Page)

PlanIt
CharityBridge
(NGO Description Page)



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PlanIt Survey

ReviewRealm

Your feedback is essential in shaping our future. Share your thoughts.

lavenders054@gmail.com [Switch accounts](#)

Not shared

* Indicates required question

How satisfied are you with the overall experience of using PlanIt? *

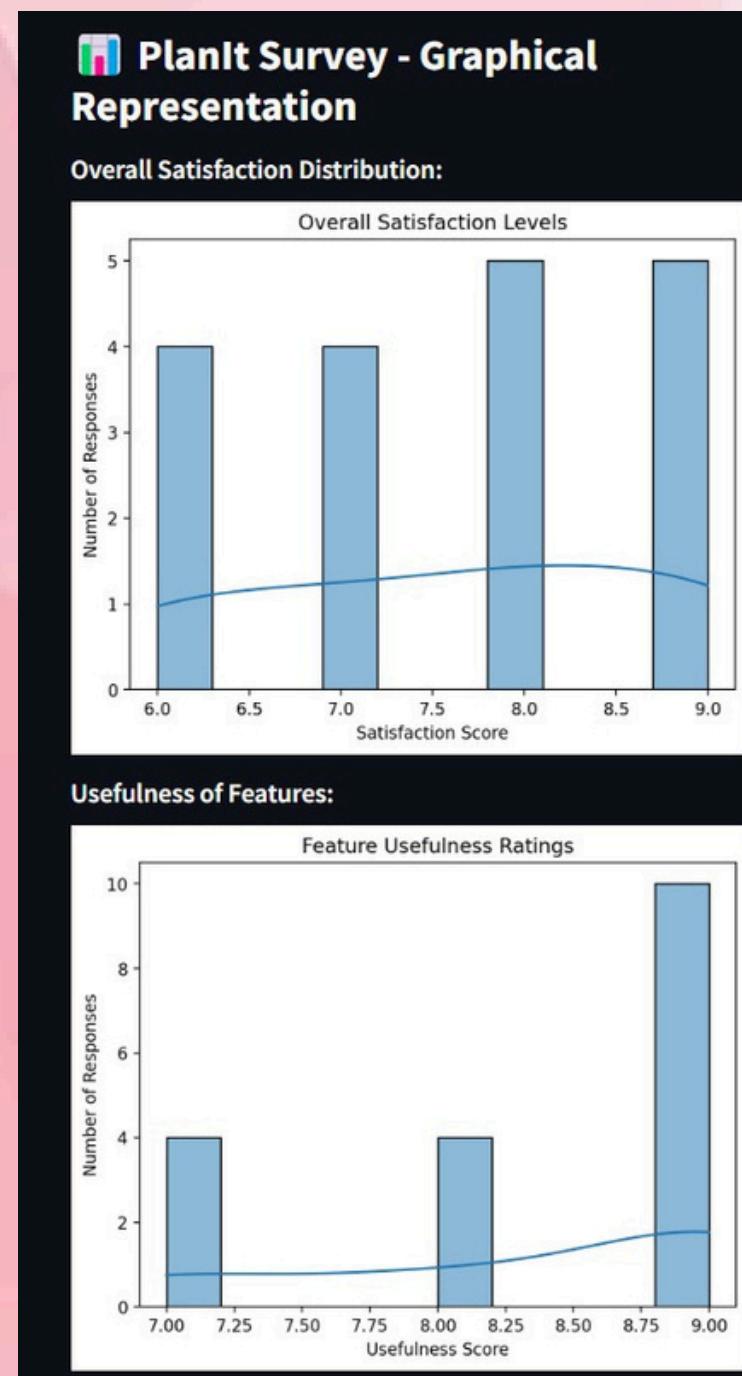
1 2 3 4 5 6 7 8 9 10

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆

How useful do you find the features provided on PlanIt? *

1 2 3 4 5 6 7 8 9 10

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆



PlanIt

ReviewRealm (Extension)



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Results & Impact

Enhanced Focus and Productivity: By providing a calm, distraction-free environment with tools like Pomodoro timers and flowchart generators, students can improve focus, manage time efficiently, and increase productivity.

Mental Well-Being Support: The integrated mental health chatbot and soothing design promote emotional well-being, reduce stress, and help students manage anxiety, leading to a healthier study routine.



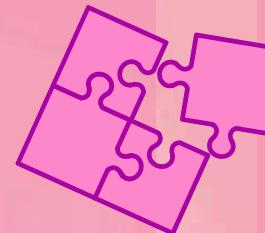
Personalized Learning and Community Engagement: Offering study planners, mentorship, and a collaborative space, PlanIt enables students to develop effective study habits, connect with peers, and foster a sense of belonging.



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Study Timetable Generator



- Challenge:** Incorrect code due to improper use of API documentation.
- Solution:** Corrected the code after thoroughly reviewing the API documentation.

Chatbots

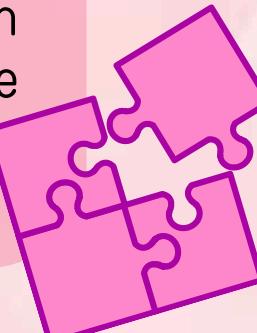
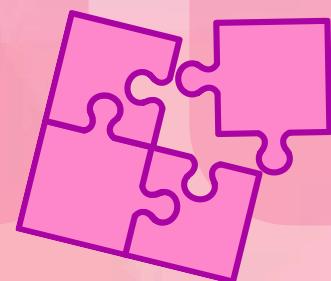
- Challenge:** Difficulty in tuning the models for proper performance.
- Solution:** Conducted extensive testing and adjustments to improve chatbot interactions.

Chat with PDF

- Challenge:** Unable to process PDFs with images.
- Solution:** Used Tesseract OCR to extract text from images in PDFs.

Community & Database Connectivity

- Challenge:** Issues with database connectivity and authentication.
- Solution:** Switched to SQLite with Flask to resolve these issues.



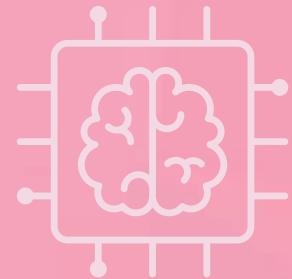


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Future Work

- We will work on our current features to be make them more precise and technologically advanced. This can be by incorporating deepseek- an efficient, free of cost api.



- We will work on adding a new feature MarkUs which will analyze which subjects and topics does a student lack in and predict the future marks of a student. based on the current report of the student. This can be done through incorporating machine learning and data analysis.

