

# StudySphere

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AN OPEN PLATFORM FOR STUDENTS TO SHARE  
THEIR KNOWLEDGE AND COLLABORATE

## OUR MISSION

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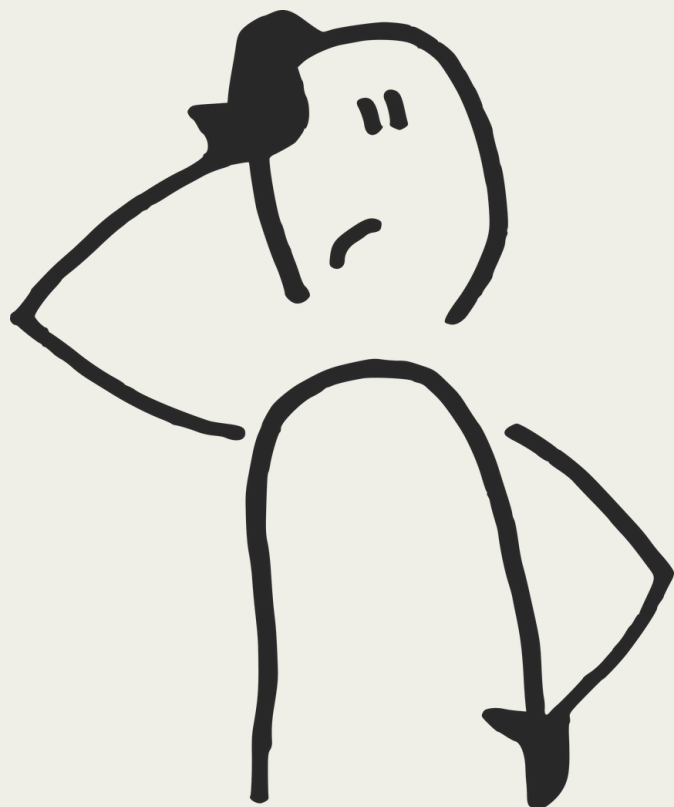
Our mission is to empower students by providing a unified, accessible, and modern platform where knowledge can be created, organized, and shared effortlessly. We aim to transform scattered study materials into meaningful resources, helping every student learn smarter, stay organized, and achieve their academic goals.



# PROBLEM

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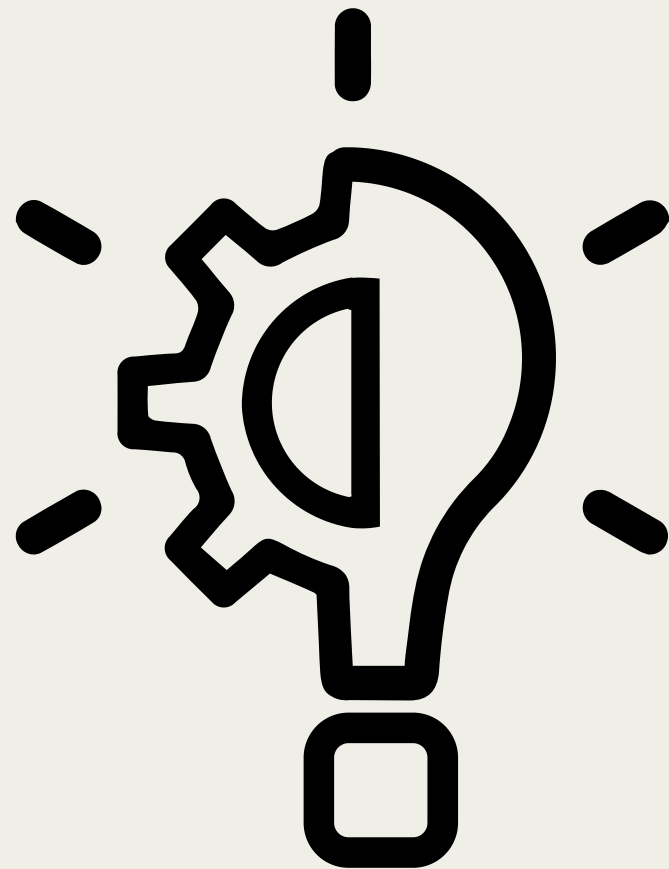
Students often struggle with scattered notes, lost files, unorganized study material, and ineffective collaboration tools. Traditional platforms are either too complex, too limited, or not built with students' real workflows in mind. As a result, learning becomes inefficient, stressful, and disconnected.



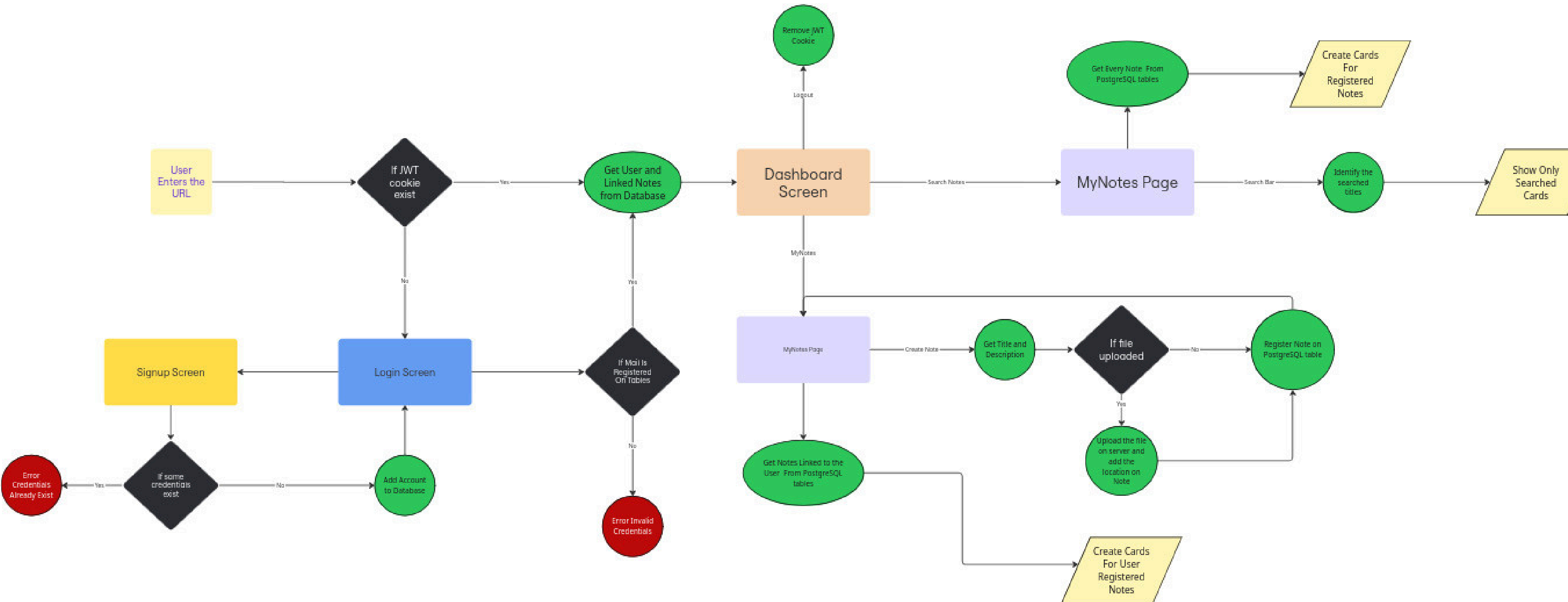
## SOLUTION

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StudySphere provides a unified, student-focused platform where users can create, store, organize, and search their notes effortlessly. With clean tools for file attachments, note management, and fast search, students finally get a simple and reliable workspace built specifically for their academic needs.



# HOW OUR CODE WORKS



## COMPONENTS

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PostgreSQL stores all StudySphere data in a reliable, structured database, while NeonDB provides a cloud-hosted, serverless PostgreSQL environment that scales automatically and requires no infrastructure management. FastAPI acts as the backend layer that processes requests, handles authentication, manages notes, and communicates with the database through SQLAlchemy. Together, these components ensure a fast, scalable, and efficient system where FastAPI handles logic, NeonDB hosts the data, and PostgreSQL powers the storage.



# FEATURES

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- User authentication (signup, login, secure sessions)
- Create, edit, delete, and manage personal notes
- Global note search across all users
- Clean and responsive dashboard UI
- File attachment support for notes
- Cloud-hosted PostgreSQL database with NeonDB
- **Production Ready Code**



# IMPACT

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StudySphere provides a unified, student-focused platform where users can create, store, organize, and search their notes effortlessly. With clean tools for file attachments, note management, and fast search, students finally get a simple and reliable workspace built specifically for their academic needs.





# FUTURE PLANS

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- Better UI animations
- Creating view pages for notes
- Tasks & reminders system
- Private Note sharing between users
- Real-time chat between students
- Profile customization
- AI assistant to help students while reading notes
- **Full Deployment using Amazon VPS hosting**

# Swot Analysis

## STRENGTHS

- Fast and scalable backend powered by FastAPI and PostgreSQL/NeonDB
- Simple, student-friendly interface for note taking and knowledge sharing
- Secure authentication and data handling
- Ability to upload, search, and manage notes efficiently

## OPPORTUNITIES

- Rising demand for digital learning tools
- Potential for AI-powered study assistance
- Expansion into group workspaces, chat, and reminders
- Partnerships with schools or student communities
- Mobile app development for broader accessibility

## WEAKNESSES

- Early-stage minimal features
- Requires more engagement and user base to grow
- No mobile app yet

## THREATS

- Security risks as user base grows
- Dependence on cloud infrastructure availability
- Changes in educational tech trends

# Thank you!

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**STUDYSPHERE**



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