



IIT Madras

# SOFTWARE ENGINEERING PROJECT

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May 2025 - Team 22

PROJECT PRESENTATION

# OUR PRESENTATION TOPIC



1



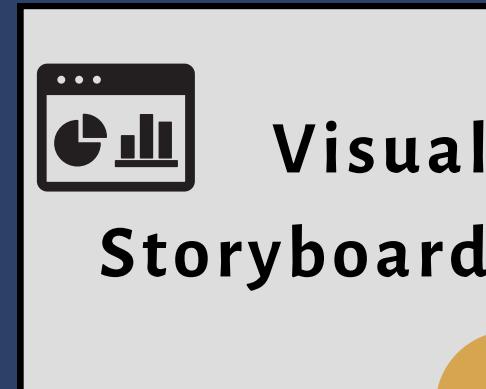
2



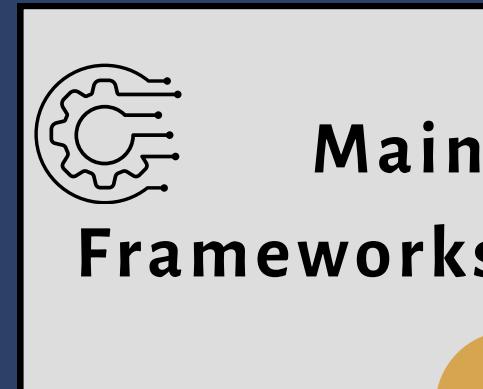
3



4



5



6

# TEAM MEMBERS

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**Deepak Kumar Singh**



**Kumar Rishabh**



**Rahul Sharma**



**Aarush Saxena**



**Arya Chavan**



**Gopu Vishal Reddy**



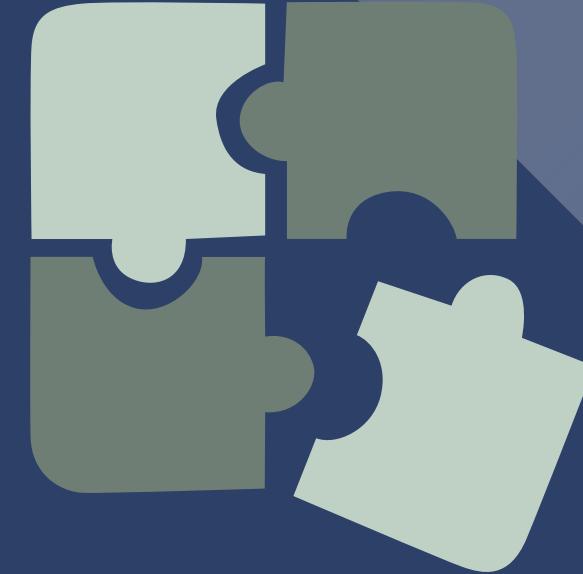
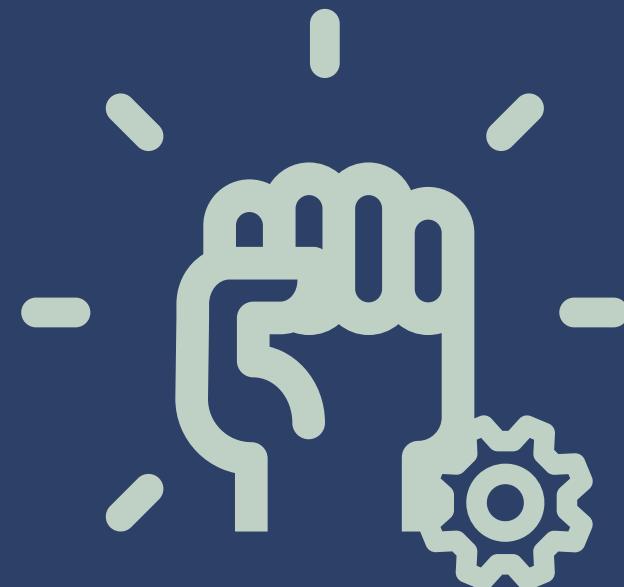
**Nikhil Sai Kasireddy**

# Problem Statement

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## Core Challenge

- Kids (8–14) lack key life skills, like time management, emotional intelligence, financial literacy, and healthy habits.
- Tools focus on academics, not personal growth.
- Skills gap affects long-term success.
- Few engaging platforms for habit-building.



## Vision

- Build a web/mobile app for ages 8–14.
- Teach life skills via fun, interactive, age-appropriate activities.
- Use real user feedback to solve genuine needs.
- Help kids form lasting habits for growth and future readiness.

# User Identification

## Primary Users: Students

- Participate in skill-building activities
- Track progress & earn rewards
- Stay motivated through interactive learning



## Secondary Users: Parents & Teachers

- Monitor student progress & achievements
- Teacher can Add/evaluate assignments
- Teacher can Share curated learning resources



## Tertiary Users: Admin

- Manage accounts & content
- Oversee user activity & compliance

# User Stories

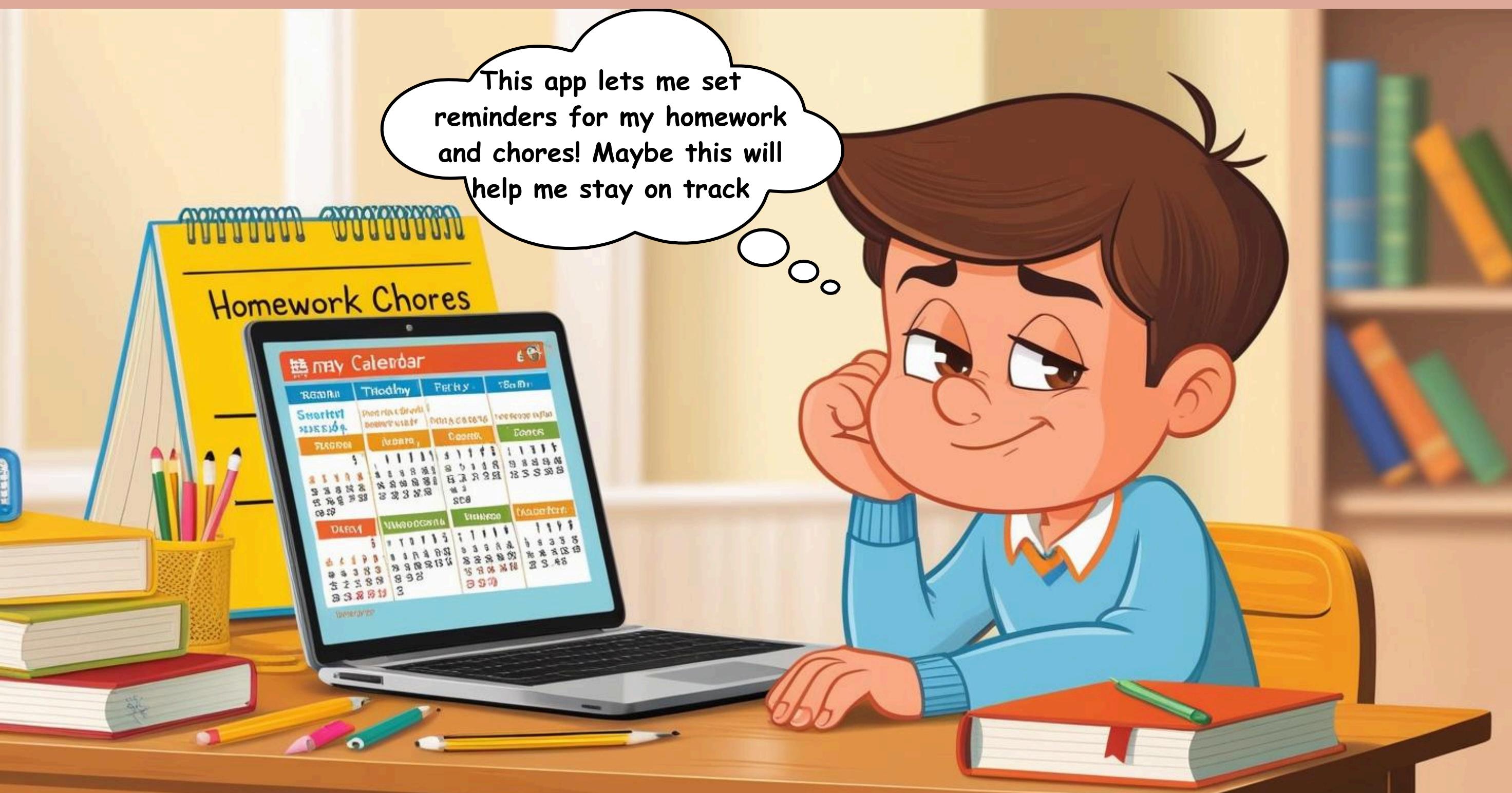
User	Story	Purpose
Student	Set reminders for homework/chores; Track daily & weekly goals	Manage time better & stay motivated
Student	Practice conversations with virtual coach; Get feedback on exercises	Improve communication skills
Student	Access learning resources and skill-building exercises	Enhance knowledge & practice independently
Parent	View child's progress; Get deadline alerts	Encourage good habits & offer timely support
Parent	View communication progress; Get conversation starter tips	Support skill development at home
Teacher	Assign tasks/projects; Monitor time management	Help students plan & provide guidance
Teacher	Assign group communication exercises; Review performance	Promote teamwork & give feedback
Teacher	Add/evaluate assignments; Share resources	Assess progress & provide materials

# STORYBOARD

# Student willing to sets reminders to manage homework and chores



# A student happily checking off goals on a digital checklist on a laptop.





Skillzy

Dashboard

Assignments

Badges

Resources

Calendar

AI Assistance

Profile

Logout

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13 Running	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

# Student uses a timer to focus during study sessions.



 Cancel (Do not worry to switch between pages. Focus mode is still active. 😊)

Welcome Back! Ankit Kumar   

35

 Dashboard

 Assignments

 Badges

 Resources

 Calendar

 AI Assistance

 Profile

Ready to learn something amazing today? Your cartoon friends are here to help!

Class Stats 



Today's Tasks

2



Upcoming Assignments

0

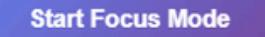


Completed Assignments

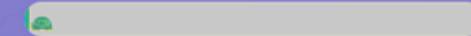
2



 Focus Mode

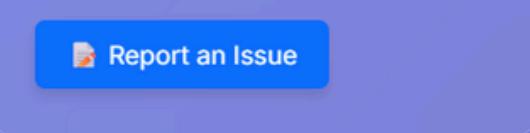
 Start Focus Mode

 Time Left: 04:57



Let's start slow...

Report an Issue 

 Report an Issue

Statistics  

 Logout

# Student practices conversation scenarios with AI assistant.



# AI Assistance Hub

Your intelligent study companion and task management assistant



AI Chat Bot

Smart Helper



Task Agent

Organizer

## AI Study Buddy

Your friendly AI assistant for learning and homework help



Online



Hi there! 🌟 I'm your friendly AI buddy! I love helping students learn! 😊🌟

06:38 PM

hey i am aarush



06:38 PM



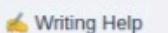
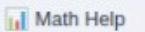
Hi Aarush! It's great to meet you! How can I assist you today? Whether it's about communication skills, public speaking, or just having a chat, I'm here to help!

06:38 PM

Ask me anything on improving communication



## Quick Actions



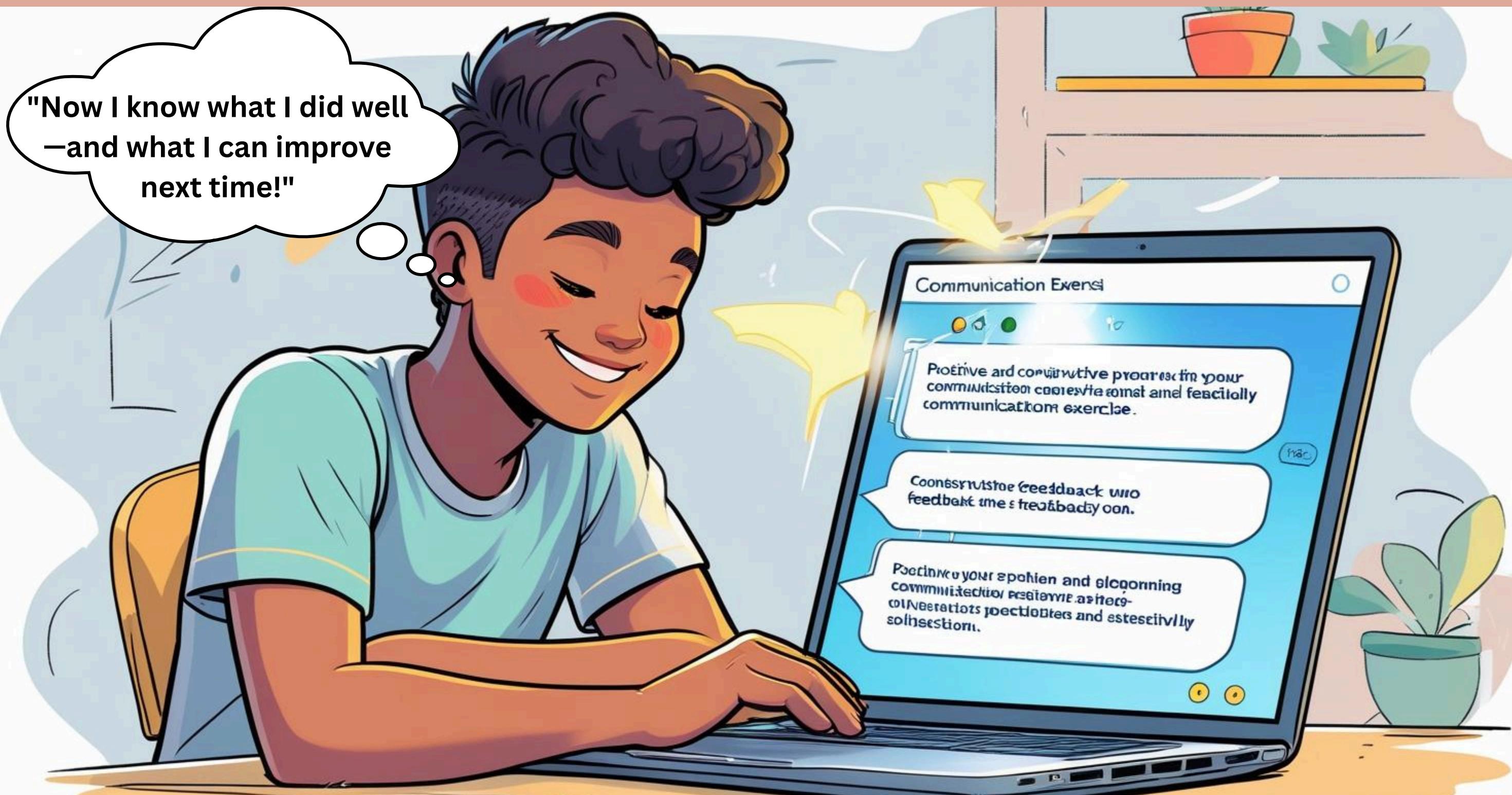
## Tips

Use voice input for hands-free interaction

Ask specific questions for better help

Share your homework for detailed guidance

# Student receives notifications and feedback on various exercises.



# Welcome Back! Amit Kumar



Ready to learn something amazing today? Your cartoon friends are here to help!

## Class Stats



### Today's Tasks

1



### Upcoming Assignments

1

## Statistics



### Your Learning Progress!

Keep up the great work!

Progress



Completed



## Notifications

12 Aug, 11:53 am

2 assignments assigned

12 Aug, 11:53 am

2 assignments assigned

12 Aug, 11:54 am

New Task 'Running' assigned

12 Aug, 11:55 am

2 assignments assigned

12 Aug, 11:55 am

2 assignments assigned

# Teacher assigns tasks or projects to students via the app.





Dashboard



My Students



Assignments



Evaluation



Resources



AI Assistance



Comms Center



Profile



Logout

# Assignments

Create and manage assignments dynamically

[Create Assignment](#)[View Assignments](#)

## + New Assignment

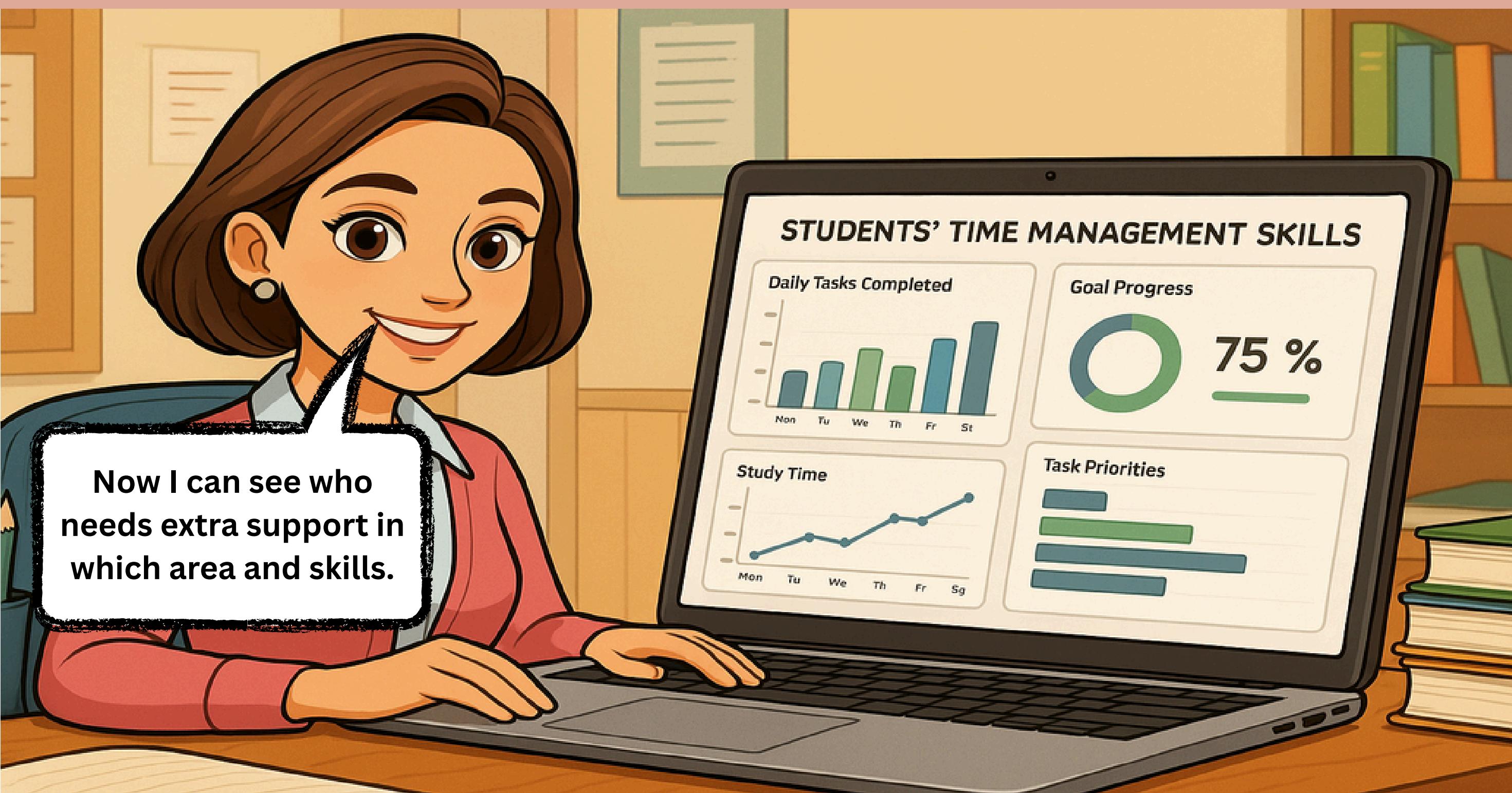
Title

Type

Due Date & Time

[Assign](#)

# Teacher reviews students' progress in each skills.



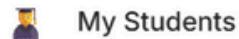


# My Students

Manage your students and view their progress



Dashboard



My Students



Assignments



Evaluation



Resources



AI Assistance



Comms Center



Profile



Logout

Search students by name or ID...

All Status



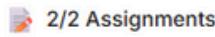
Amit Kumar

#1

Active

Overall Progress

100%



2/2 Assignments

[View Details](#)

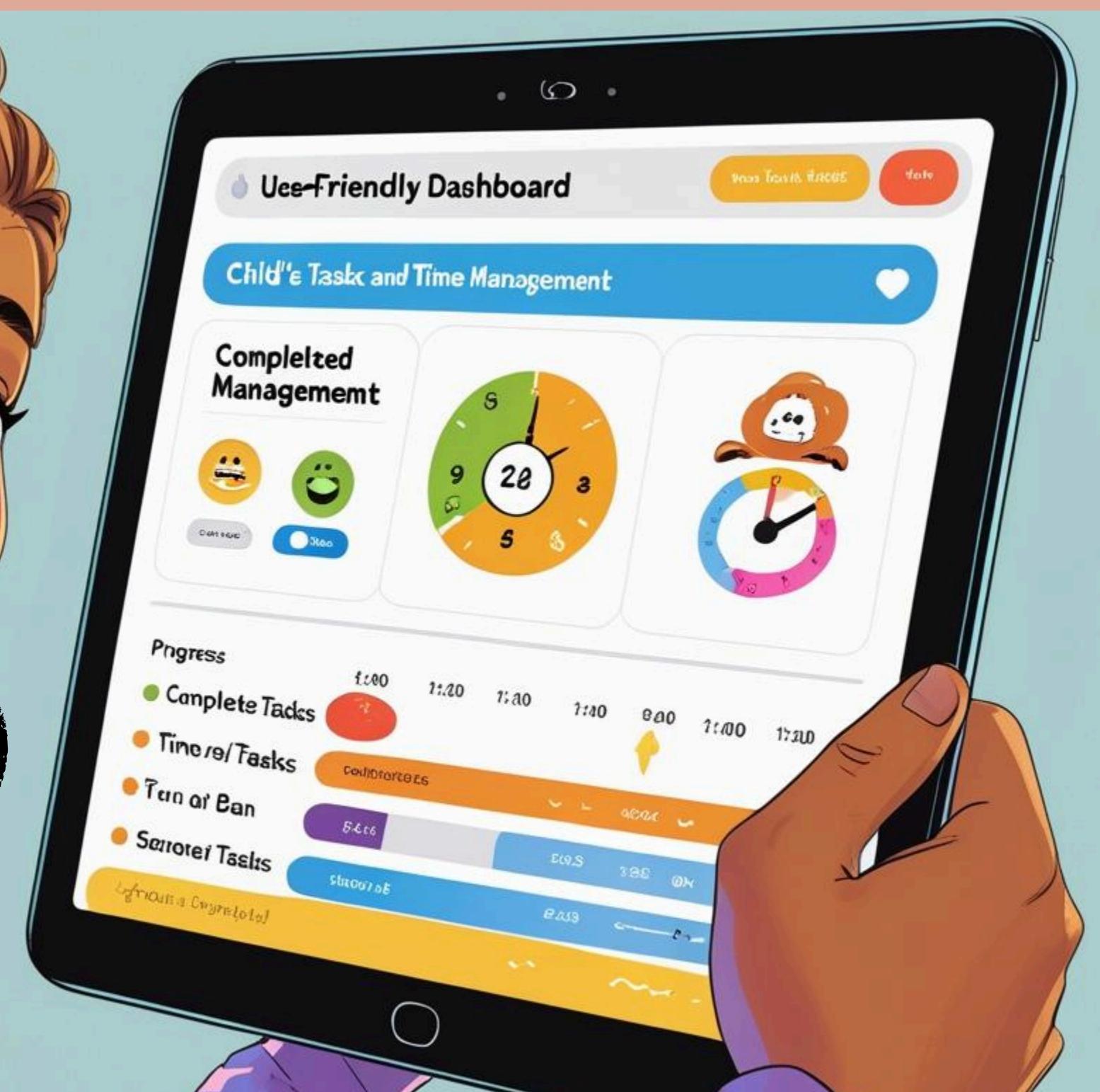
Showing 1 - 1 of 1 results

[Previous](#)

1

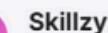
[Next](#)

# Parent views their child's task completion and progress.



Good afternoon, Umashankar Gupta 🙌

Here's an overview of your child's learning journey



Skillzy



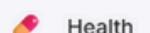
Dashboard



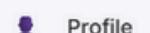
Messages



Comms Center



Health



Profile



Amit Kumar

Report an Issue

Overview

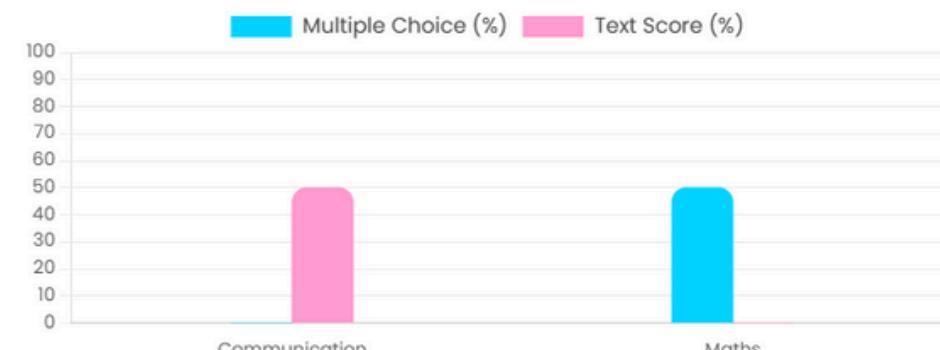
Analytics

Achievements

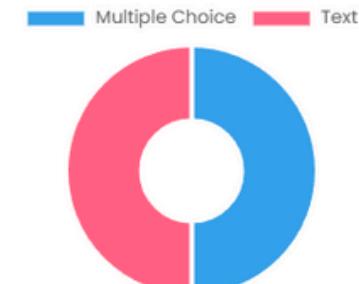
Filter by Month:

August 2025

Evaluation Breakdown by Assignment



Question Type Distribution



Logout

# Parent receives notifications about missed deadlines.



All 25

Pending Tasks

Score Updates

Reports

 Your child has pending tasks: Practice communication skill, Learn Science, this

Your child has pending tasks: Practice communication skill, Learn Science, this

12 Aug 2025

 Your child has pending tasks: Practice communication skill, Learn Science, this

Your child has pending tasks: Practice communication skill, Learn Science, this

12 Aug 2025

 Your child has pending tasks: Practice communication skill, Learn Science, this

Your child has pending tasks: Practice communication skill, Learn Science, this

12 Aug 2025

 Your child has pending tasks: Practice communication skill, Learn Science, this

Your child has pending tasks: Practice communication skill, Learn Science, this

12 Aug 2025

Load More Messages

# Parent can do conversation with teachers to support their child.



This will help me to connect and track my child and encourage to work more on given suggestions.

Conversation Starter

Detours your child with conversation starters to you conversation starters?

Childs you prepare you positive conversation suggestion starters;

# Parent Comms Center

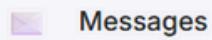
Direct and secure messaging



Skillzy



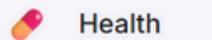
Dashboard



Messages



Comms Center



Health



Profile



## Chats



Kumar Rishabh



Kumar Rishabh

hlo

hii

Type a message...

Send



Logout

# Main Frameworks

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## FRONTEND

- VUE 3 CLI
- VUE ROUTER
- VUE MARKDOWN
- JAVASCRIPT
- BOOTSTRAP
- HTML & CSS
- AXIOS
- DOTLOTTIE-VUE

## BACKEND

- FLASK
- FASTAPI
- SQL ALCHEMY
- JWT
- CELERY
- PYTEST
- PDFKIT

## AI

- OPEN AI
- LANGCHAIN

## GENERAL

- GITHUB
- JIRA
- SWAGGER EDITOR
- FIGMA
- CANVA

# THANK YOU!