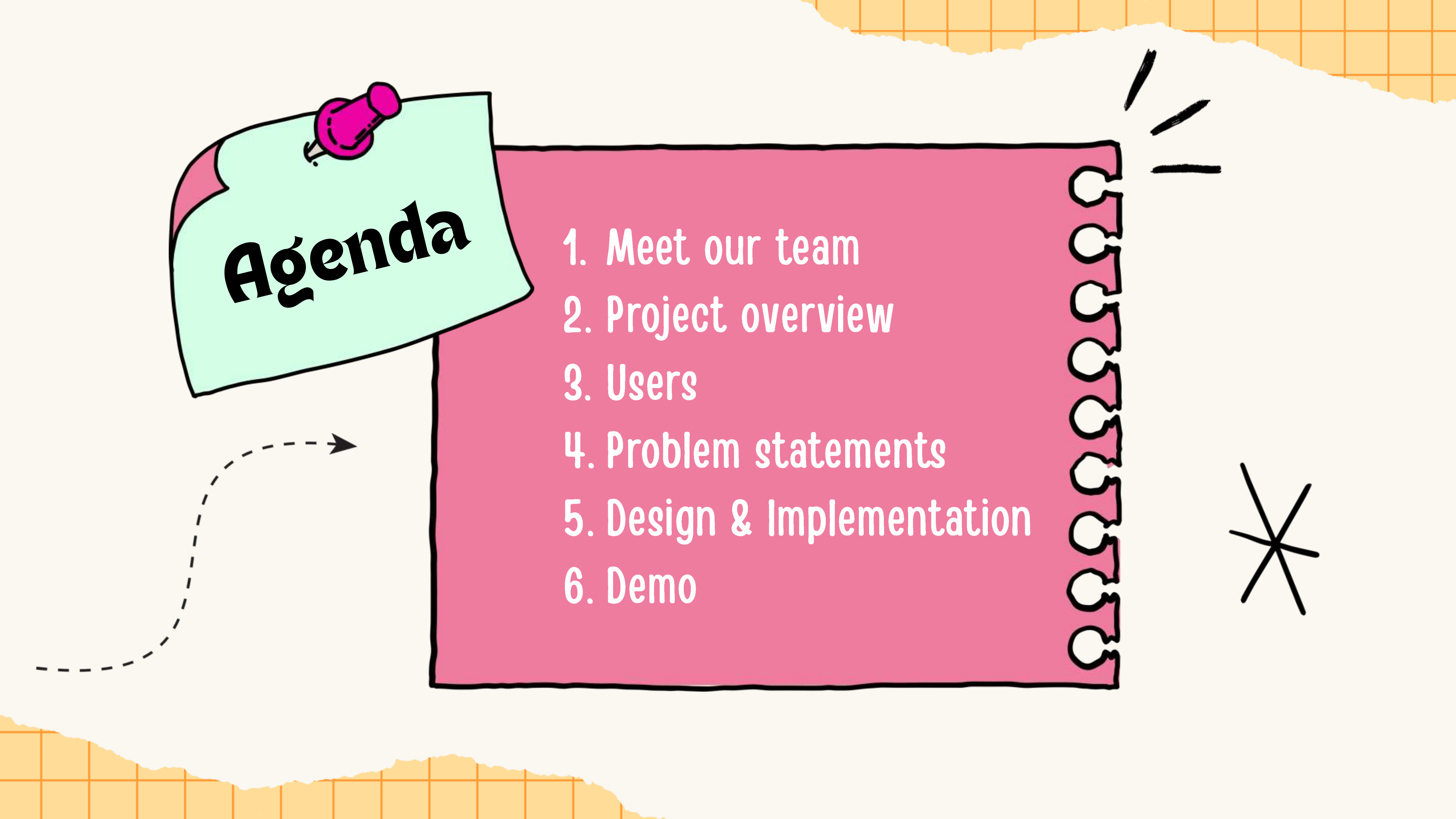




Software Engineering Project

May '25 - Team 25





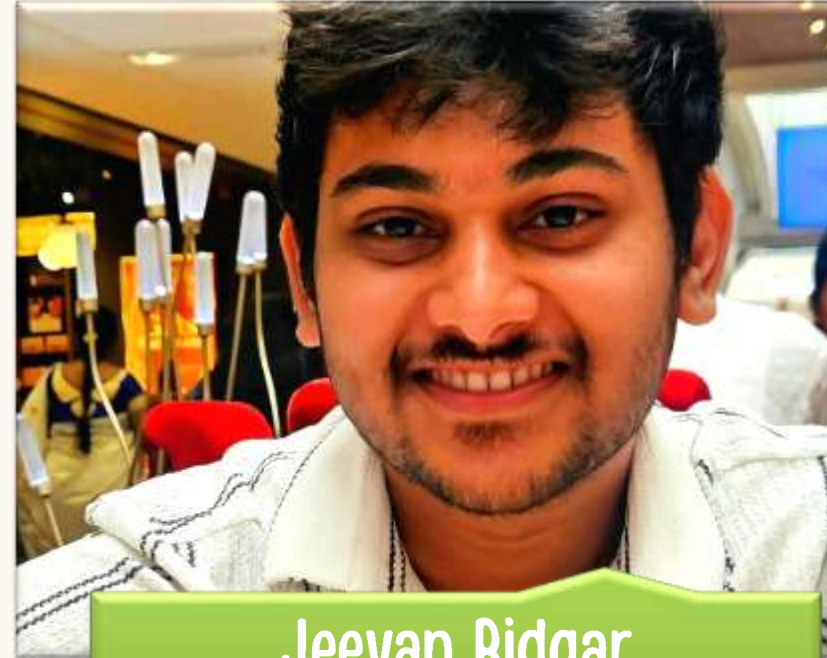
Agenda

1. Meet our team
2. Project overview
3. Users
4. Problem statements
5. Design & Implementation
6. Demo

Brains Behind the Build!



Siddhardh Devulapalli
– Product & Scrum Lead



Jeevan Bidgar
– Developer & Tester



Pal Amitkumar Shish
– Developer & Tester



Sinu Maria Jeesson
– Developer & Tester



Sreekanth A
– Developer & Tester



Pankaj Mohan Sahu
– Developer & Tester



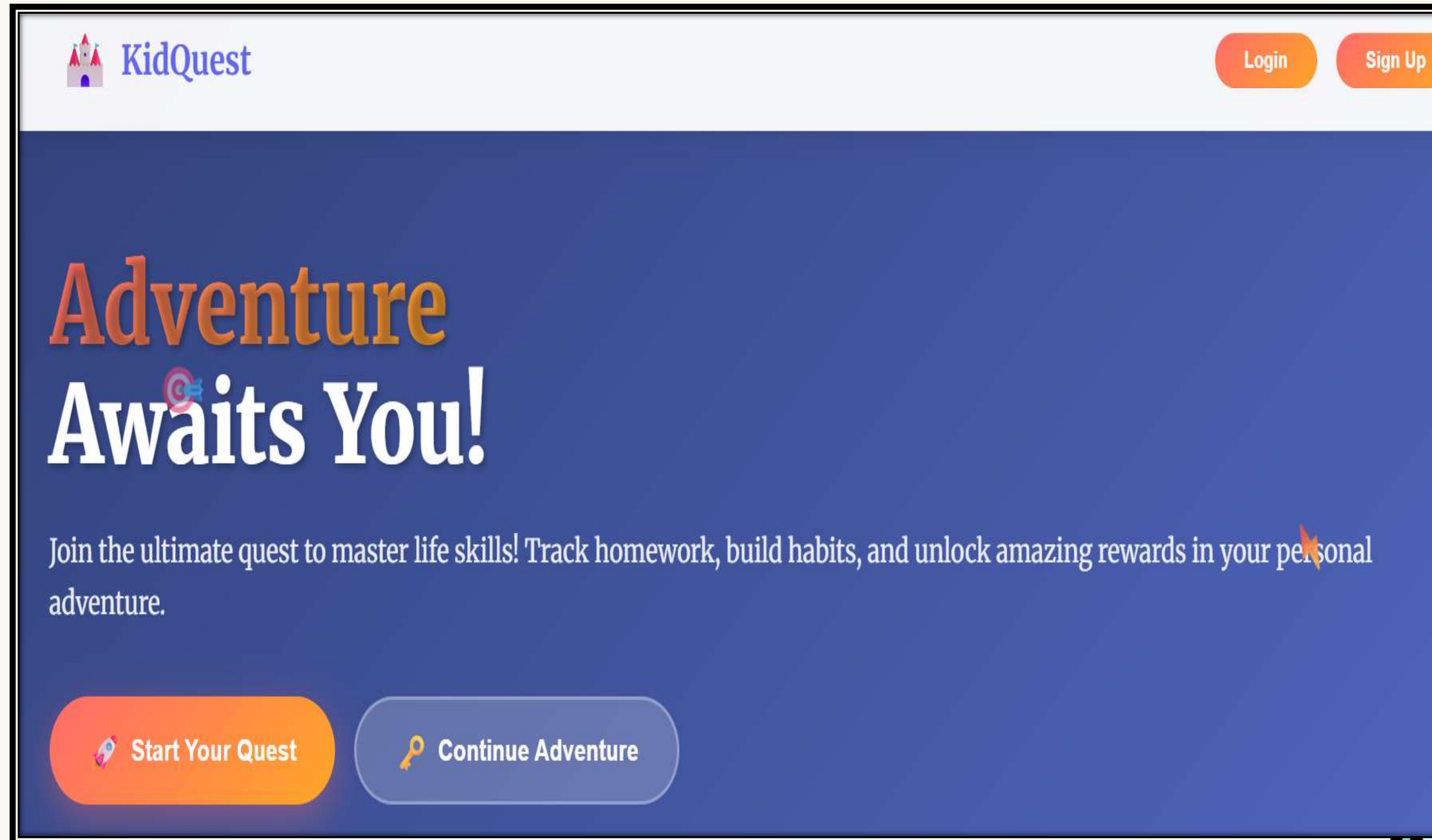
Om Aryan
– Developer & Tester

KidQuest



The all-in-one platform you've been looking for to help kids grow, learn, and thrive through:

- Life skills & academics
- Time & money management
- Healthy habits & emotions
- Personality & creativity insights
- Parent-teacher connection





▶ Who are we developing
this for?

Types of Users

Primary

- Kids (8 – 14 years of age)

Secondary

- Middle-aged urban parents
- School teachers handling kids from 8 to 14 years of age

Tertiary

- Administrative users

PRIMARY USER

Kids (8 – 14 YOs)



• TIME MANAGEMENT

Problem: Difficulty staying organized with homework and time management

Consequence: last-minute stress and incomplete assignments

• HEALTHY LIFESTYLE

Problem: No reminders for healthy habits like hydration and breaks

Consequence: Fatigue and unhealthy study routines

• FINANCIAL LITERACY

Problem: No system to track pocket money and savings

Consequence: Reckless spending and reduced savings

• MENTAL WELLNESS

Problem: No trusted companion to talk to during sadness or anxiety

Consequence: Bottled-up emotions and lack of timely support

SECONDARY USERS

Parents & Teachers



A) PARENT

- **HOLISTIC PROGRESS**

Problem: No regular updates on child's progress and app usage

Consequence: Missed chances to support learning without intrusion

- **EMOTIONAL SUPPORT**

Problem: Unable to provide timely, personalized motivation to the child

Consequence: Missed opportunities to encourage and support daily routines

B) TEACHER

- **ASSIGN HOMEWORK**

Problem: Unable to systematically assign and track homework subject-wise

Consequence: Delayed identification of students needing extra support

- **PROGRESS TRACKING**

Problem: Unable to systematically track progress on assigned tasks

Consequence: Missed opportunities to provide timely interventions to struggling students

Summary of features for primary & secondary users!

Kids and Parents

**Time-
management
module**

Finance module

Health module

**Psychometric
module**

**Learning
module**

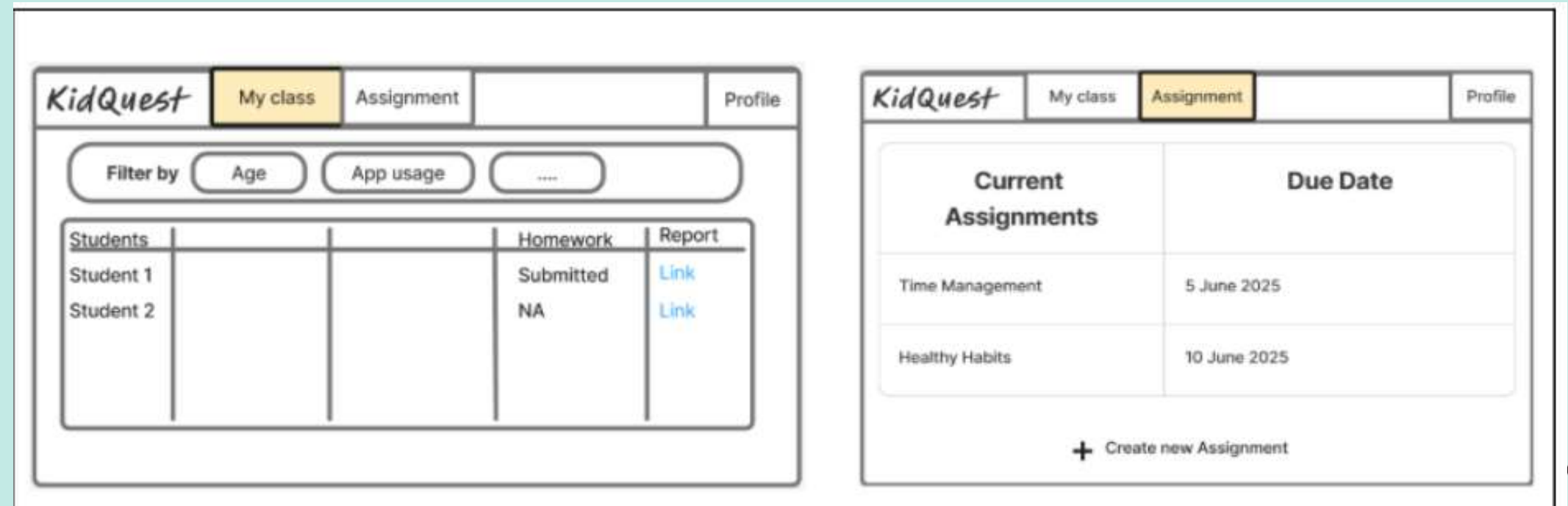
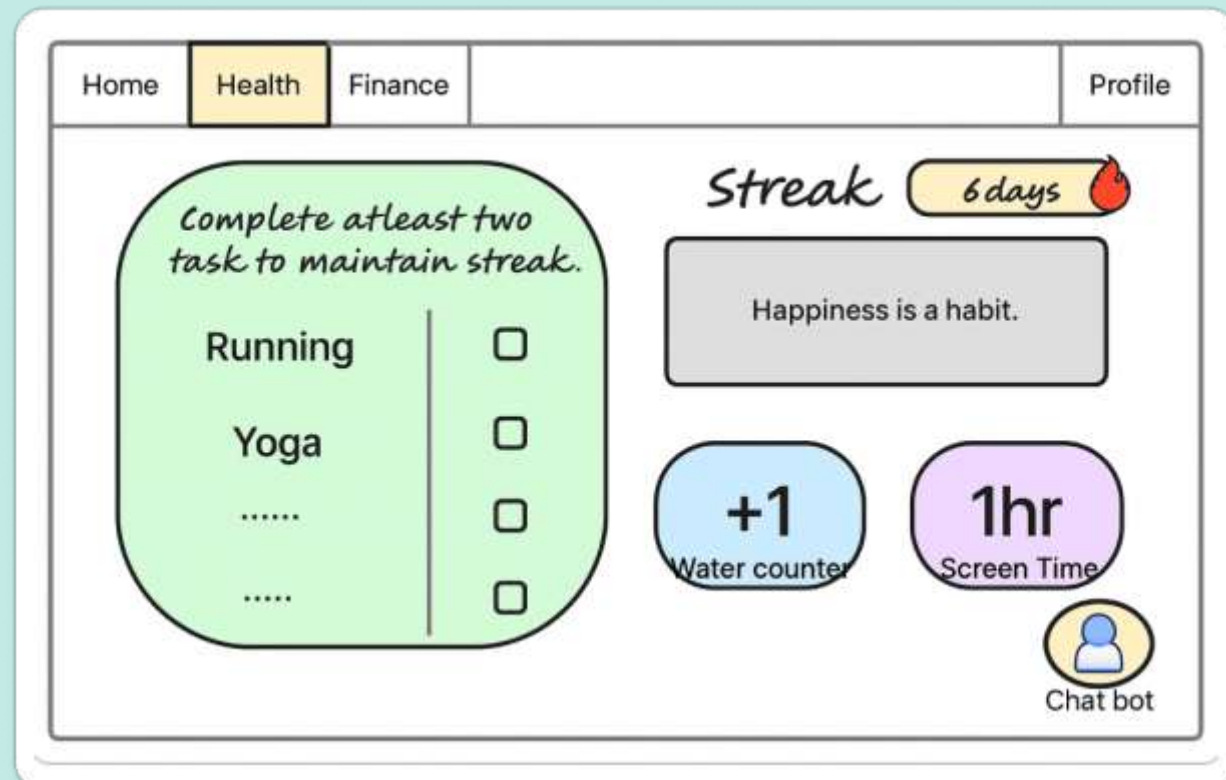
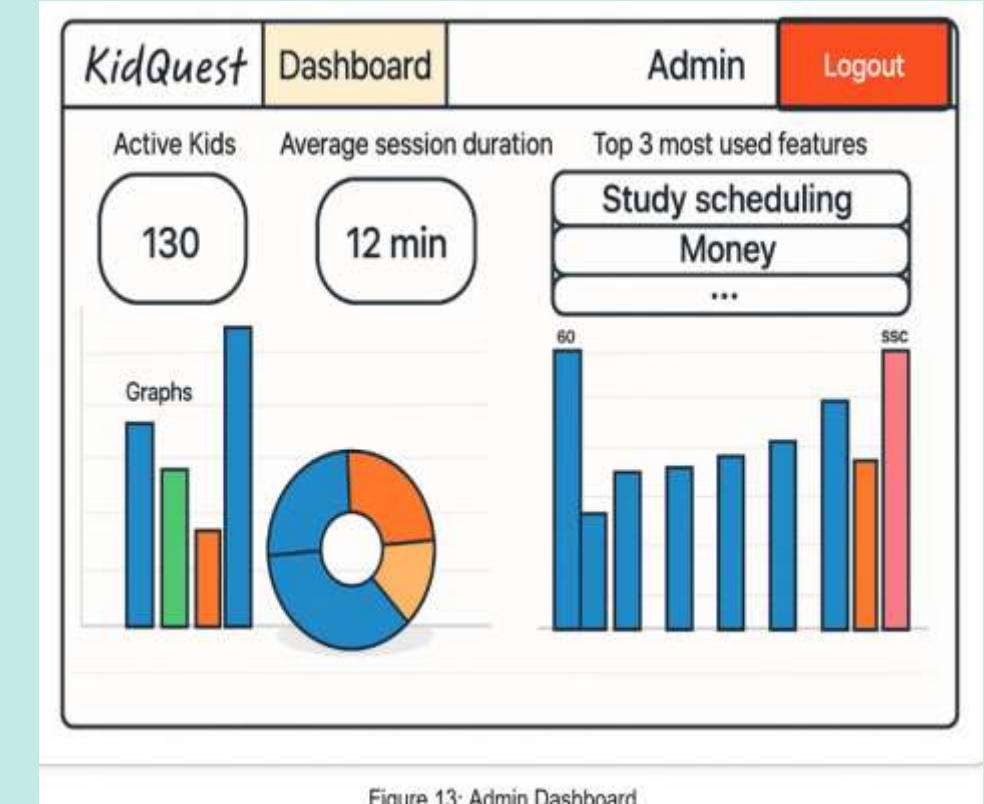
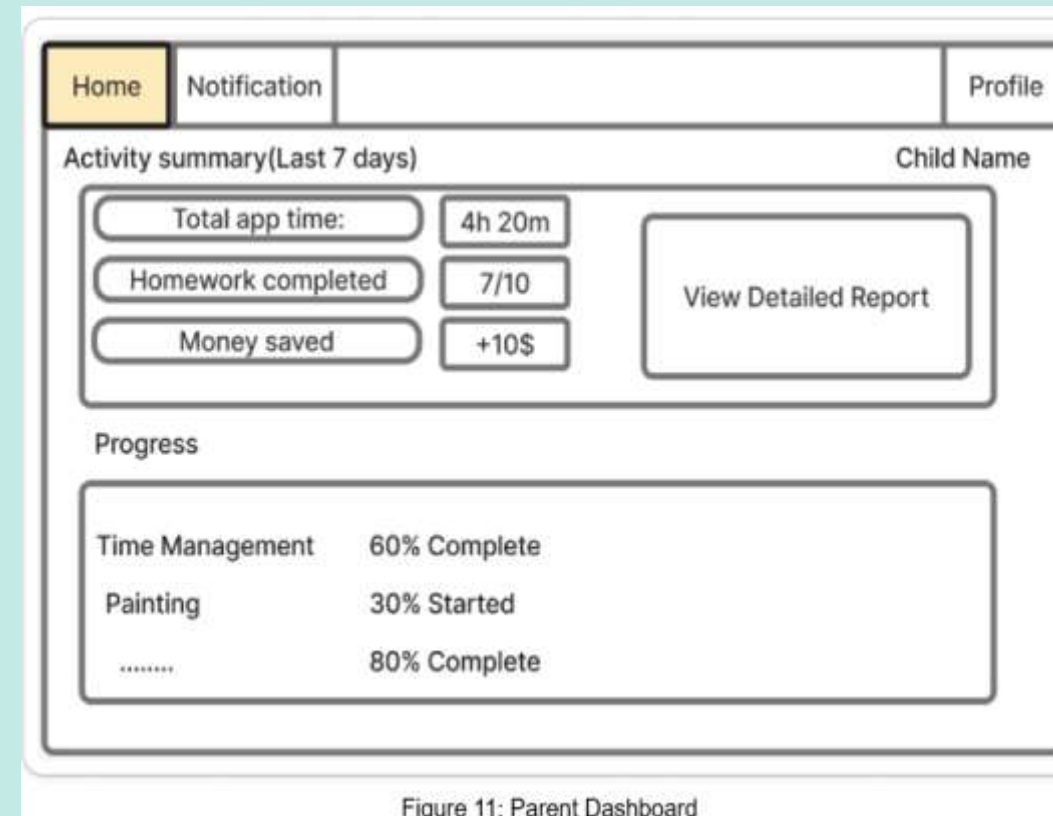
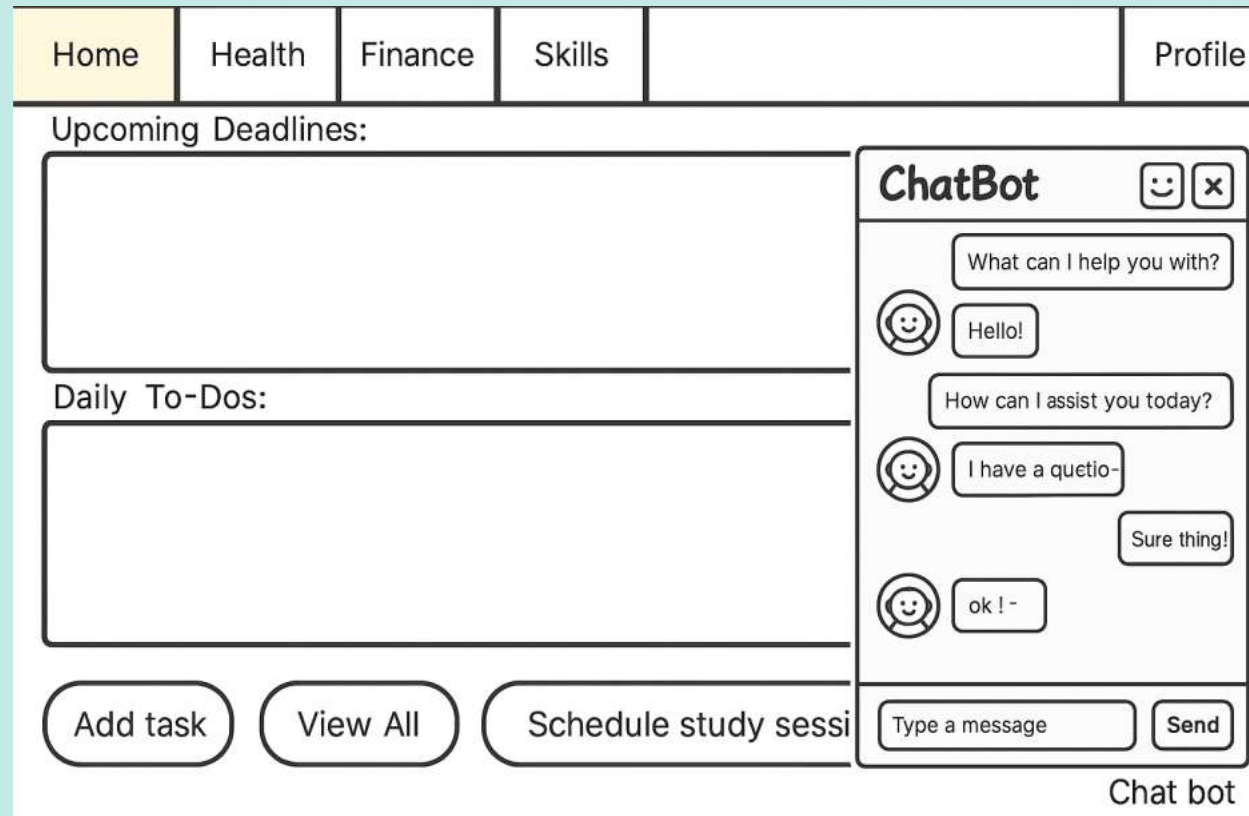
**Emotional
module**

Teachers

**Homework
assignment
module**

**Progress
tracking module**

Design and Implementation – Wireframe (a few snippets!)



KidQuest My class Assignment Profile

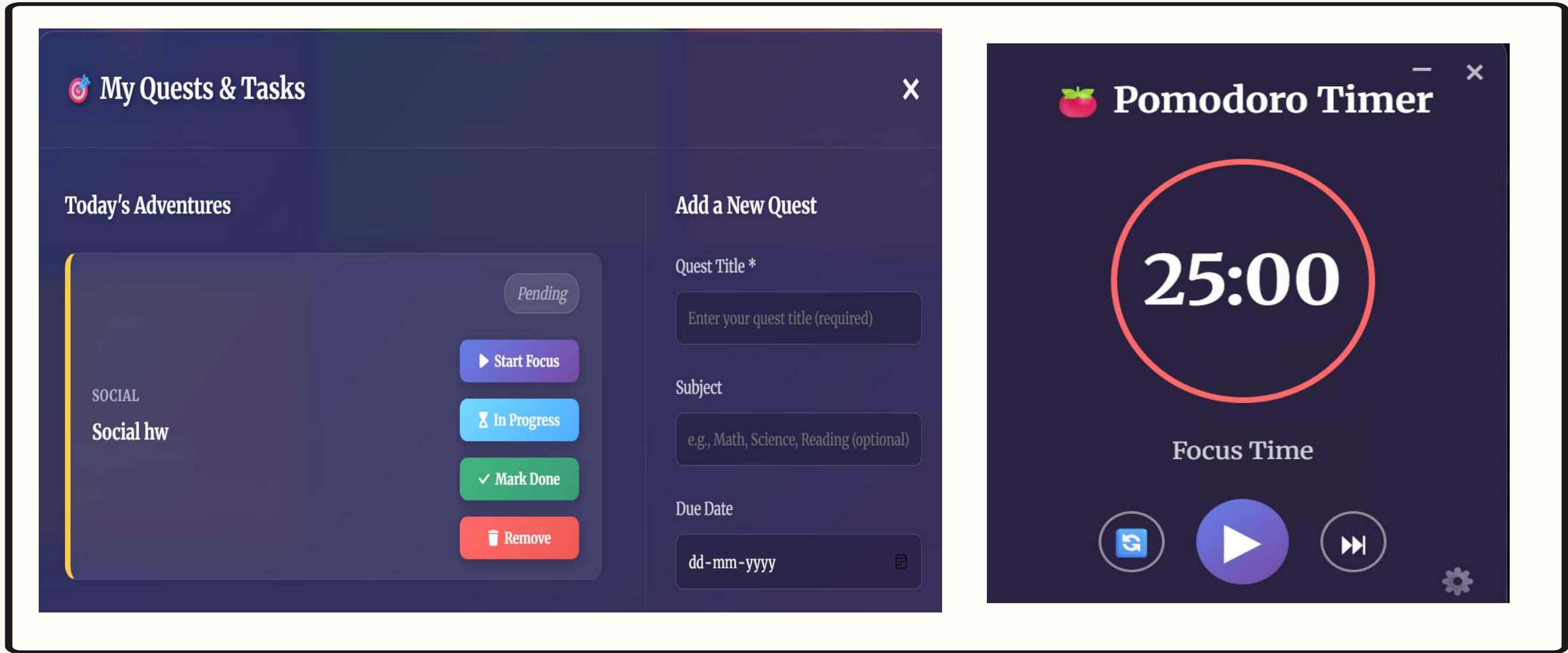
Filter by Age App usage

Students	Homework	Report
Student 1	Submitted	Link
Student 2	NA	Link

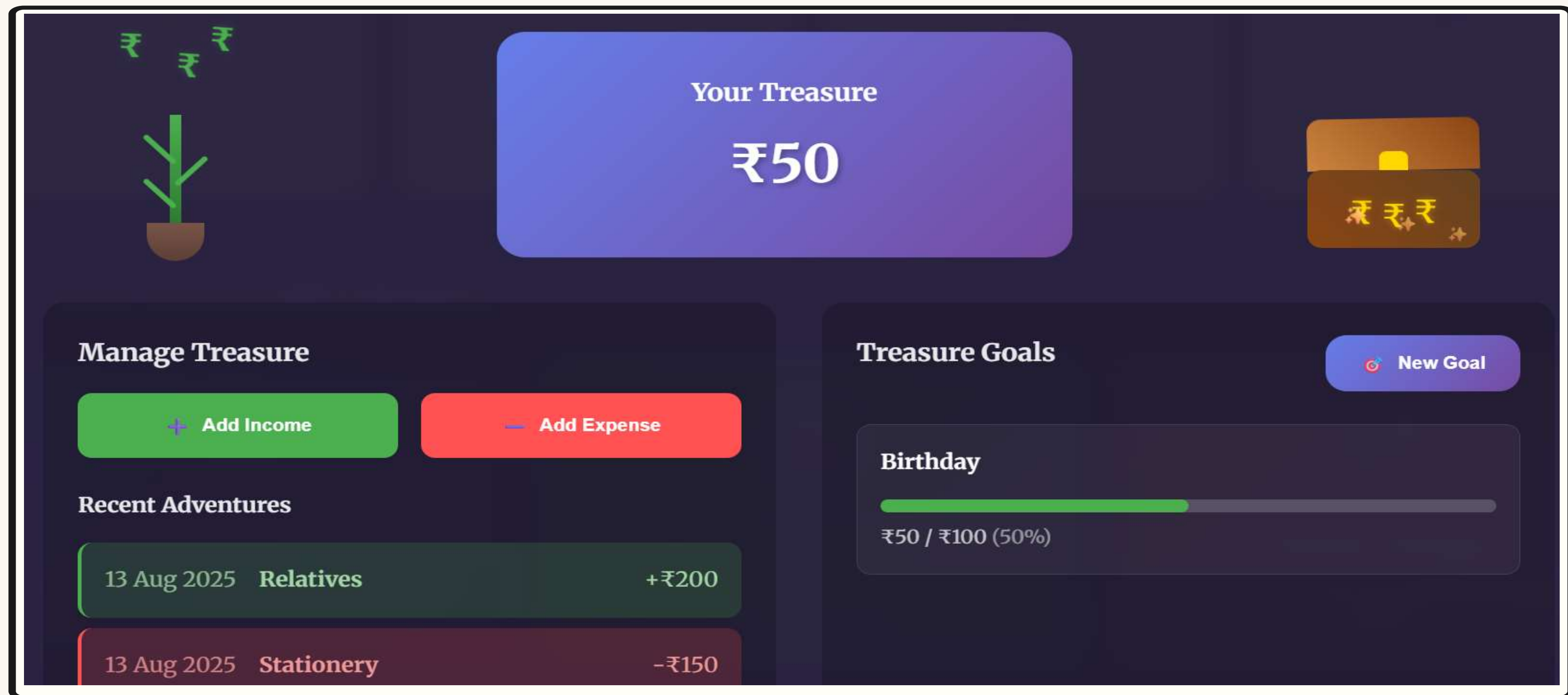
Current Assignments	Due Date
Time Management	5 June 2025
Healthy Habits	10 June 2025

+ Create new Assignment

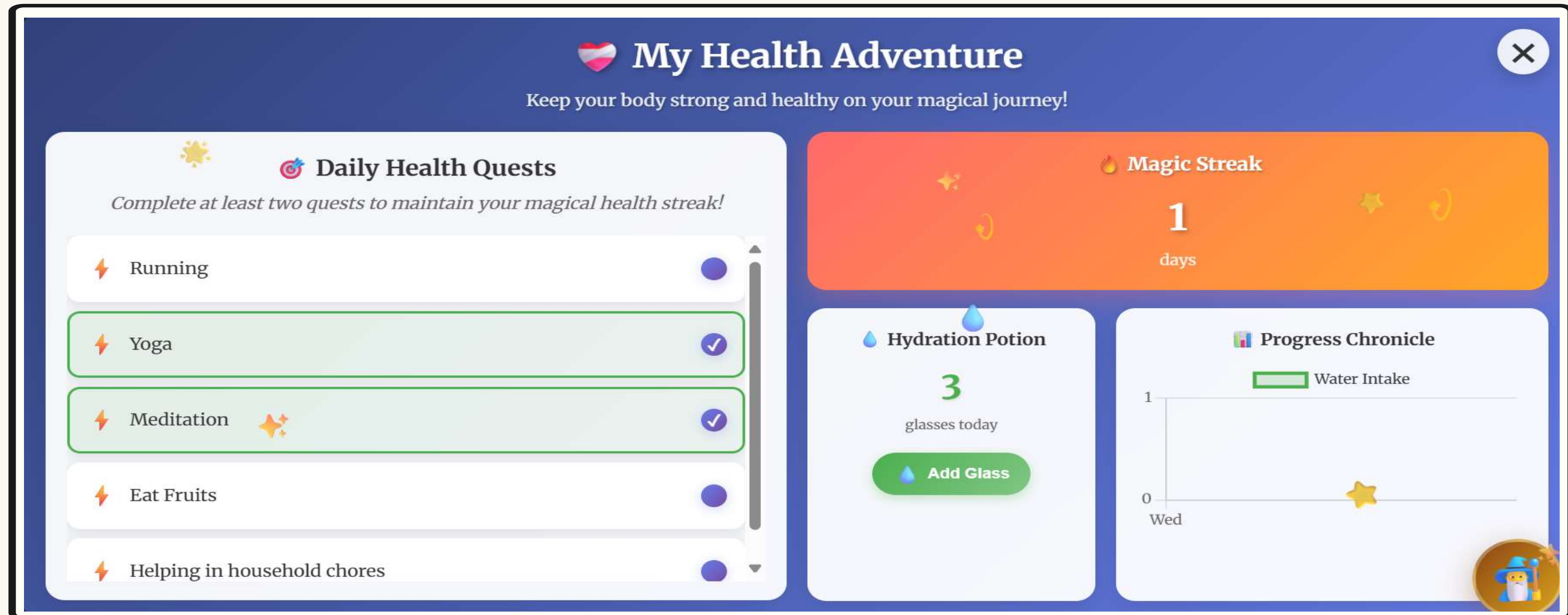
Figure 12: Teacher Dashboard



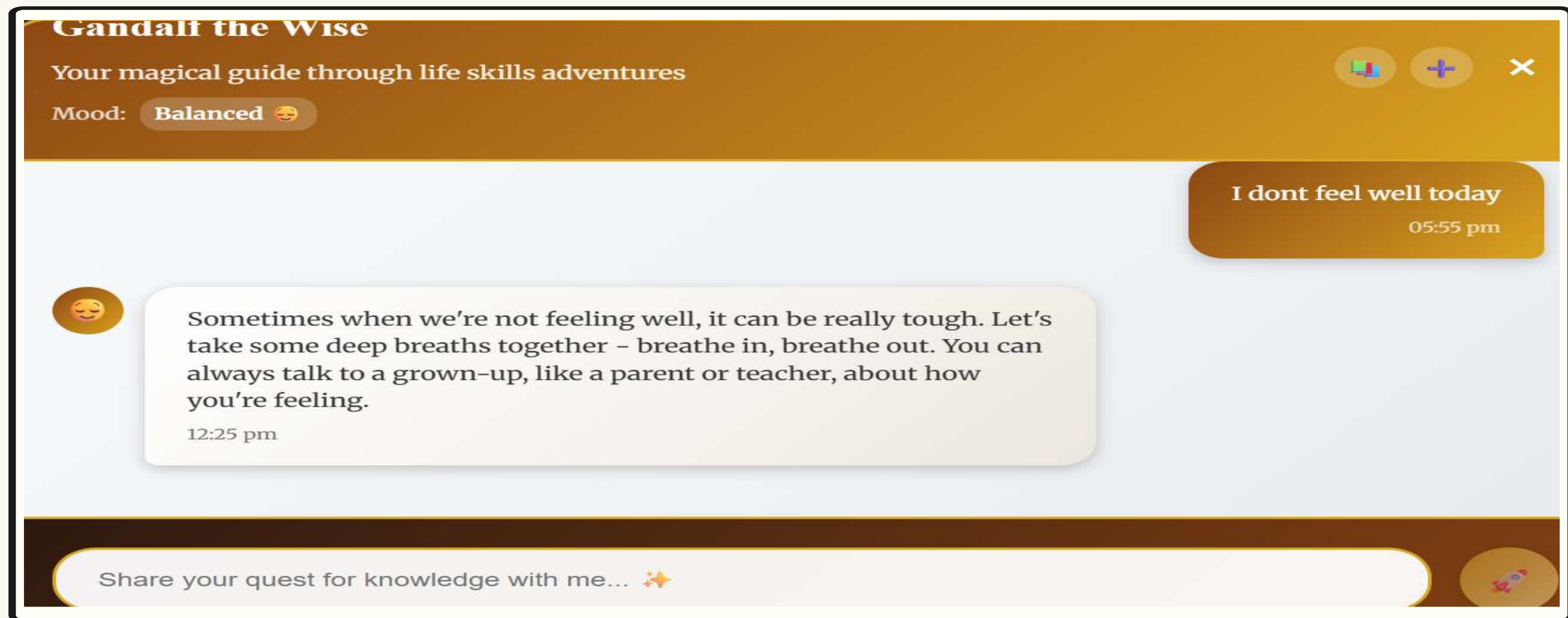
As a student, I want to track my homework and manage my time, so that I can stay organized and complete my assignments without last-minute stress.



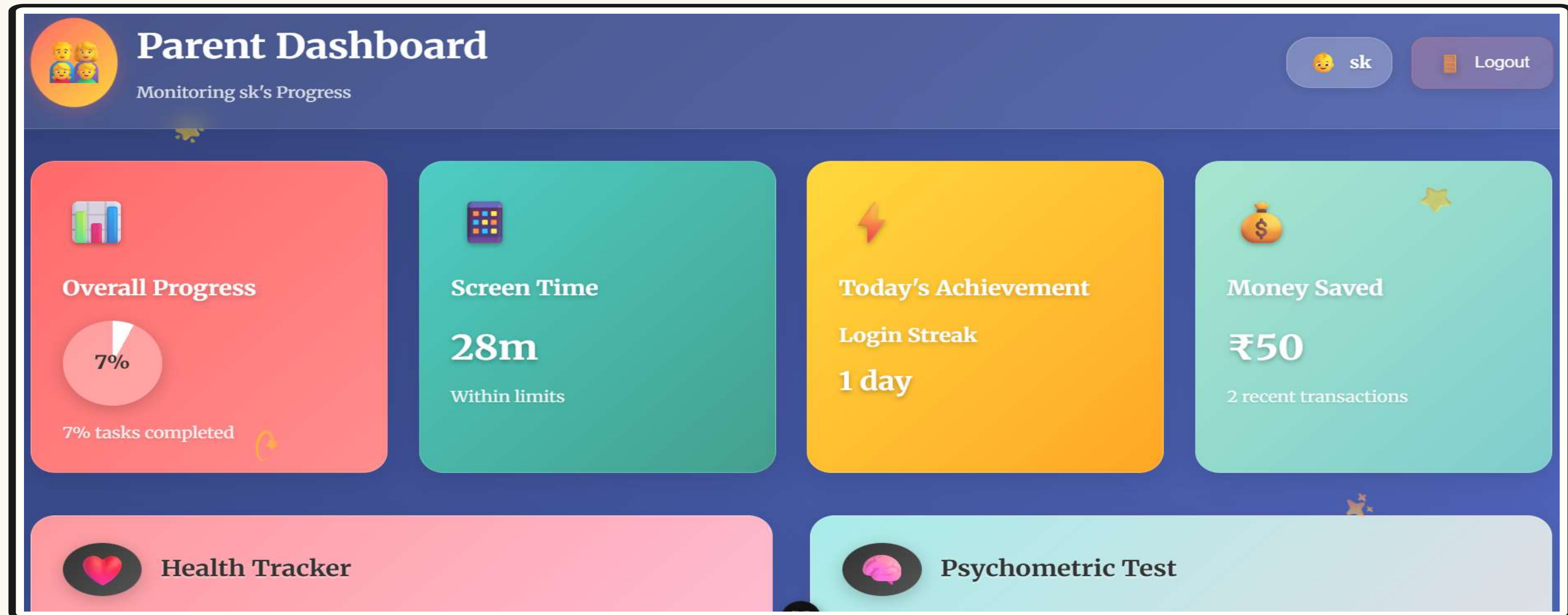
As a student, I want to keep track of my pocket money and savings, so that I can learn good saving and budgeting habits.



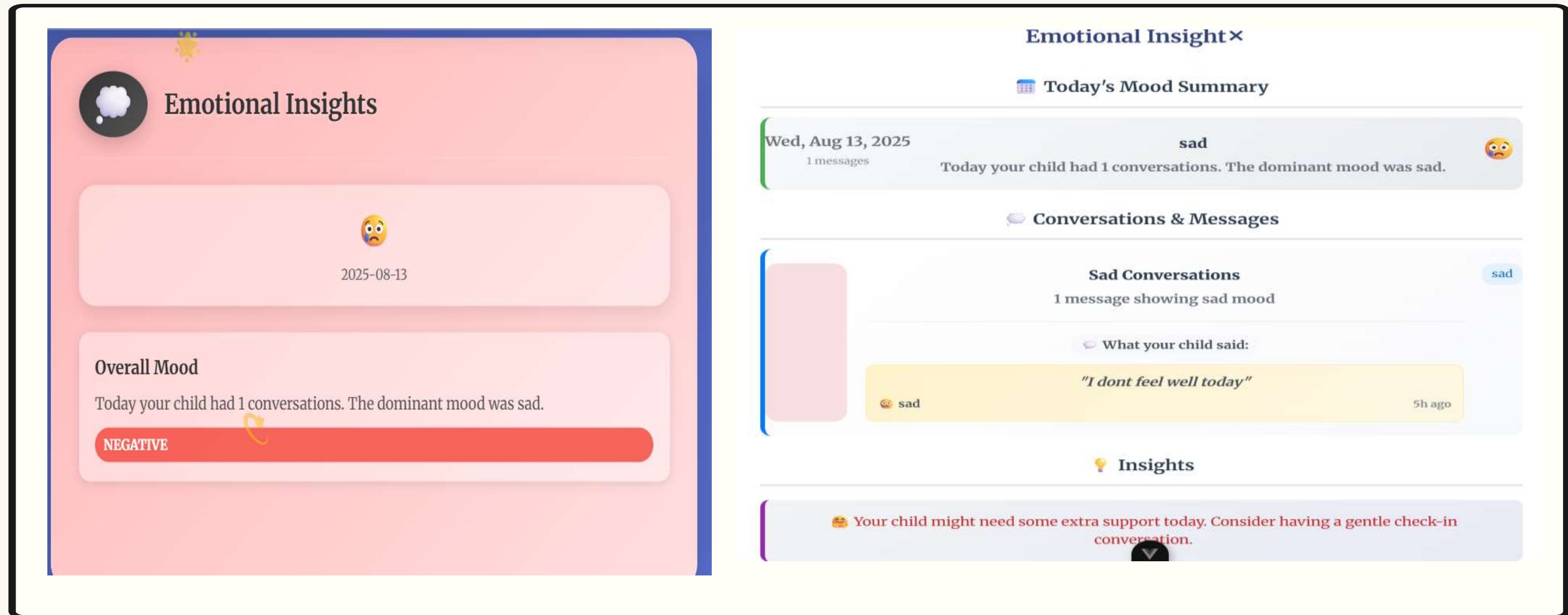
As a student, I want to receive reminders to take breaks,
so that I can maintain healthy habits and avoid feeling tired during study sessions



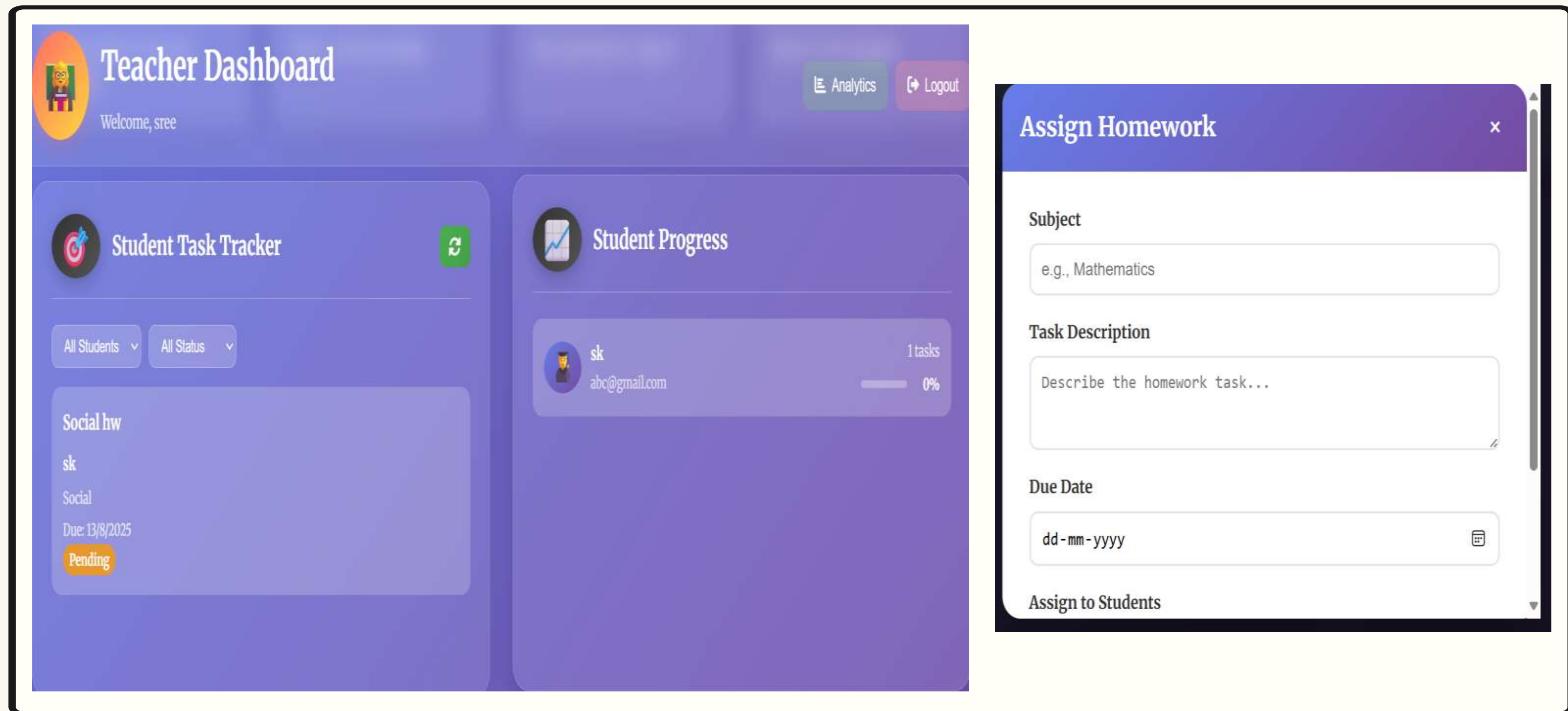
As a student, I want to chat with a friendly AI chatbot or close aide when I feel sad or anxious, so that I can express my feelings and get support even when adults are not available.



As a parent, I want to receive regular updates on my child's progress and app usage, so that I can support their learning and well-being without being intrusive.



As a parent, I want to suggest or approve personalized motivational messages for my child, so that they feel encouraged and supported in their daily routines.




As a teacher, I want to assign and track daily homework for my students, so that I can monitor their progress effectively.

Testing

test_files

- Admin_User_CRUD_Test_Documentation.md
- Doodling_Test_Documentation.md
- Finance_Test_Documentation.md
- LLM_Chat_Session_Test_Documentation.md
- Notifications_Test_Documentation.md
- Parent_Dashboard_Test_Documentation.md
- Psychometry_Test_Documentation.md
- Remaining_APIs_Test_Documentation.md
- Task_Tracker_Test_Documentation.md
- Teacher_Dashboard_Test_Documentation.md
- test_achievements.py
- test_admin_user_crud.py
- test_child_dashboard_stats.py
- Test_Documentation_Compiled.md
- Test_Documentation_submission.md
- test_doodling_session.py
- test_finance.py

- test_health_tracker.py
- test_jwt_integration.py
- test_llm_chat_sessions.py
- test_login_streak.py
- test_module_progress.py
- test_motivational_quotes.py
- test_notifications.py
- test_parent_dashboard.py
- test_pomodoro_timer.py
- test_psychometry.py
- test_task_tracker.py
- test_teacher_dashboard.py
- test_user_profile.py

backend >  run_all_tests.py > ...

```
1 import sys
2 import pytest
3
4 def main() -> int:
5     # Default: defer to pytest.ini for verbosity, warnings, and testpaths
6     args = [
7         "backend/test_files",
8     ]
9
10    # Allow passing through extra args, e.g., to include integration tests
11    # Usage examples:
12    #   python backend/run_all_tests.py           # unit-style tests only
13    #   python backend/run_all_tests.py -m integration # only integration
14    #   python backend/run_all_tests.py -m "not integration" -vv
15    if len(sys.argv) > 1:
16        args = sys.argv[1:]
17
18    return pytest.main(args)
19
20 if __name__ == "__main__":
21     sys.exit(main())
22
```


Our tech stack!



csitel@rocky006



Bootstrap



JavaScript



POSTMAN



GitHub



Visual Studio Code



Swagger



DEMO TIME!

THANK
YOU!

