

# JustAsk: Your one-stop solution for instant answers to any question

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# Subspace and Audience

## Sub-space in Digital Learning:

- Specialized virtual environments within broader e-learning platforms.
- Tailored to specific learning needs or methods.
- Examples: Virtual labs for science, discussion forums for literature.

## Audience - Educators

- At the forefront of the digital education transformation.
- Active contributors, not just end-users.
- Needs: Enhanced engagement, real-time feedback, simplified administrative tasks.
- Bridge to understanding student behaviors and needs.

# As-Is Scenario

**According to the as-is scenario map, we have the following ideas for common educators:**

1. clarifies student questions
2. educates according to scheduled assignments
3. participates in one-on-one meetings with students as arranged.
4. grades assignments, provides feedback, and uploads the findings to the learning environment, trains, and learns to improve with technology

#### **What teachers are doing:**

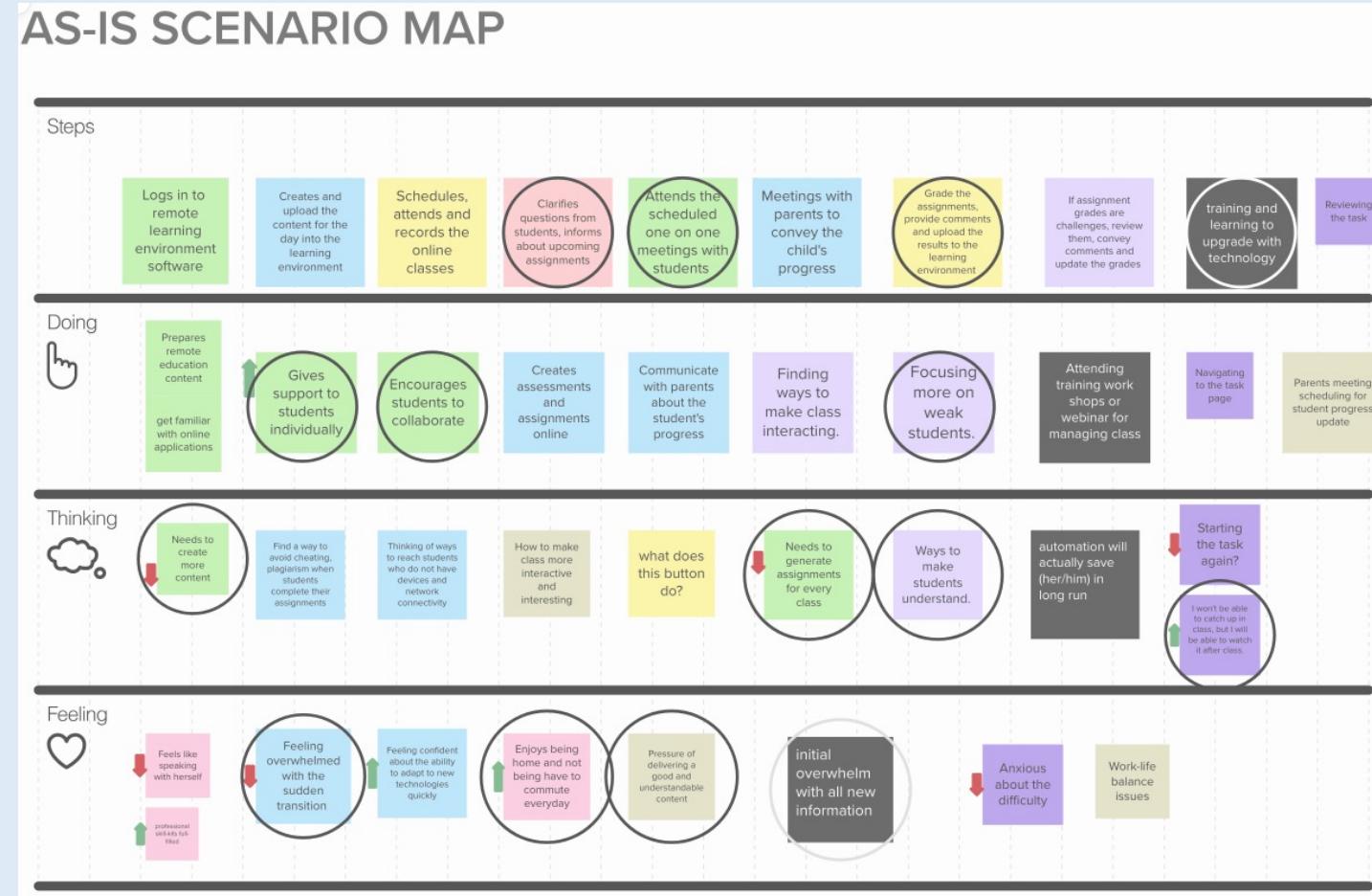
1. providing personalized support to learners
2. encouraging students to collaborate
3. focusing more on weak individuals.

#### **What teachers are thinking:**

1. more content is needed, assignments for each class are needed
2. ways to make students understand are needed
3. I won't be able to catch up in class, but I will be able to view it after class.

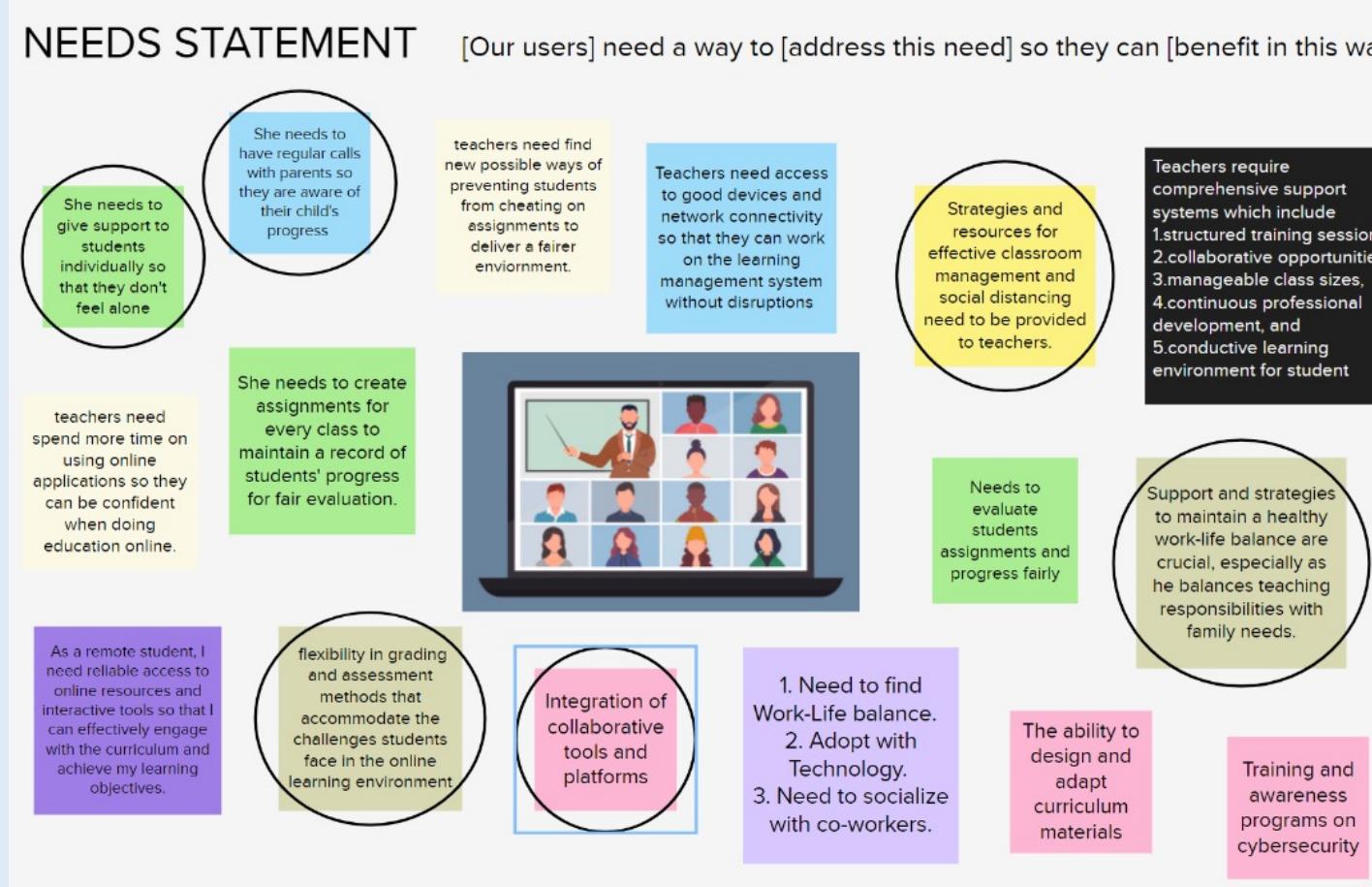
#### **What teachers are feeling:**

1. feel overwhelmed by the quick shift, love staying at home and not having to commute every day
2. the pressure to offer good and intelligible content, as well as the first overwhelm with all new information



# Needs statement

## NEEDS STATEMENT



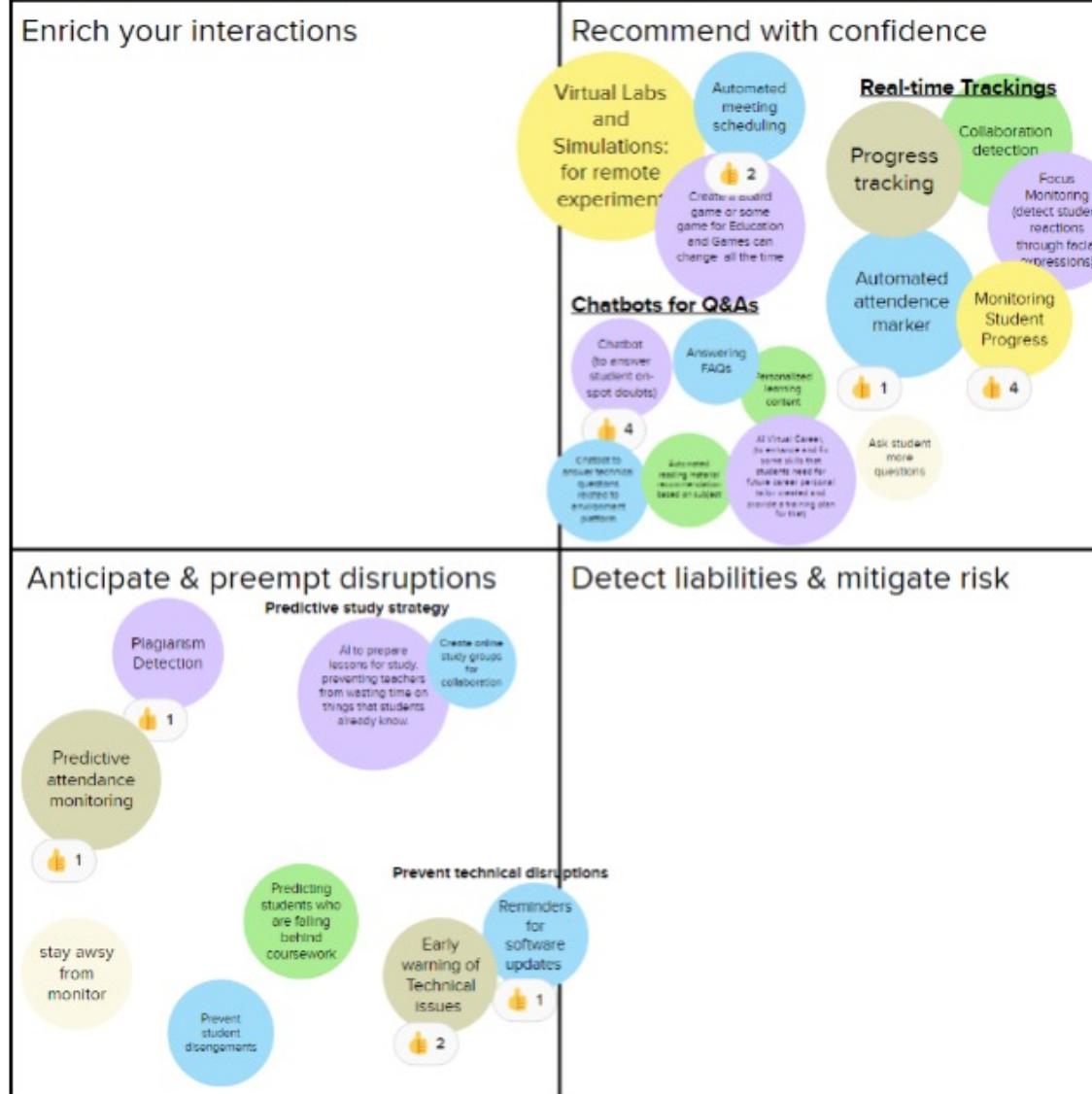
## For Students:

1. A platform to submit question and seek clarification on the topic covered in the previous class.
2. A way to engage with the teacher for further explanations and insights on the subject matter.
3. The ability to explore additional resources and references for deeper understanding of course content.
4. Access to a wide variety of new learning materials related to the course.

## For Teachers:

1. A system that allows to track individual student progress and identify areas where they may be struggling.
2. Access to data and feedback mechanisms to assess students' comprehension, skills, and potential areas of improvement.
3. Access to tools and resources for evaluating and assessing students' performance.
4. Support and training in implementing AI-based assessment methods to enhance the educational experience.

# Intent and Idea



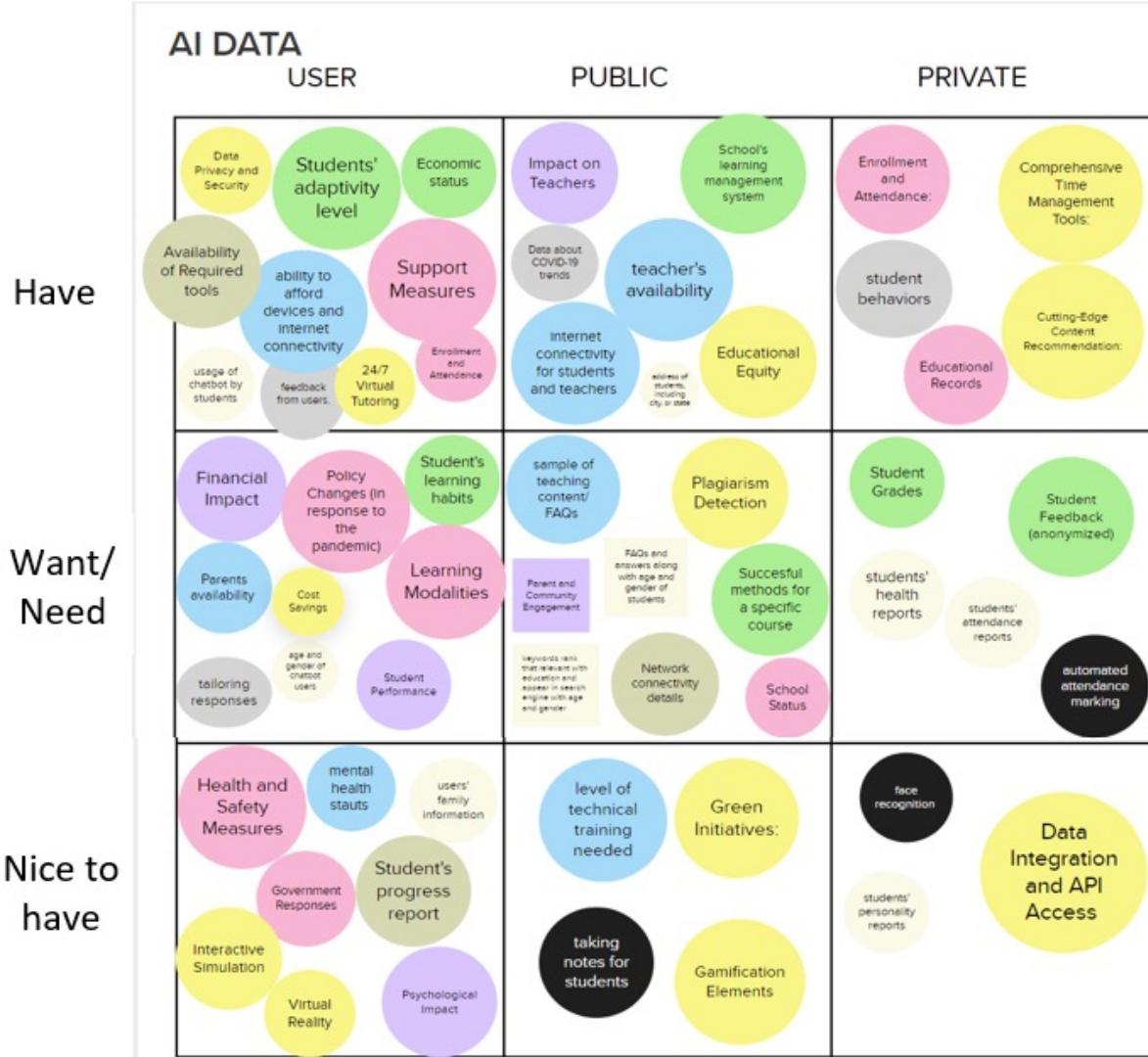
## INTENT

1. Feedback and Assessment
2. Monitoring Student Progress
3. Answering FAQs
4. 24/7 Support
5. Tutoring and Homework Help

## IDEA

1. Conversational Interface
2. Data Analysis
3. User Assistance

# Data Sources



## For Teachers,

- Impact on teaching
- 24/7 Virtual tutoring
- Query of chat bot
- FAQs/ Feedback

## For Students,

- Student progress report
- level of technical training
- student grade
- school learning management system (LMS)
- Health reports

For Teachers			
Data sets	Purpose	Description	Data Link
Teaching FAQs	Assisting teachers for common question	Question-Answer Dataset features such as ArticleTitle, Question, Answer, DifficultyFromQuestioner, DifficultyFromAnswerer, ArticleFile	<a href="#">Question-Answer Dataset</a>
Textbooks and Curriculum Content	Digital versions of textbooks, course materials, and syllabuses.	Math, Social Science, Chemistry, English, Biology, etc	<a href="#">Open Education Resource</a>
For Students			
Students' Progress Reports	Provide status of academic progress	Learning Management System(LMS) for students. Features Educational Stages, Grade Levels, Section ID, Topic, Semester, Viewing announcements, Raised hand	<a href="#">Student Academic performance</a>
Research Papers and Articles	Collections of academic papers and articles on specific subjects.	Research papers from various universities and education open sources	<a href="#">google scholar</a>

# To be Scenario

Key Aspects of To Be Scenario:

Steps:

1. Wake up, refresh, cook breakfast and check emails
2. Connect to the virtual environment and start classes
3. Create quizzes and evaluate them
4. Schedule one on one sessions with students and parents

Doing:

1. Use chatbots to answer FAQs
2. Use application to add feedback about students
3. Use insights to identify students that are struggling and reach out to them
4. Spend more time with their family

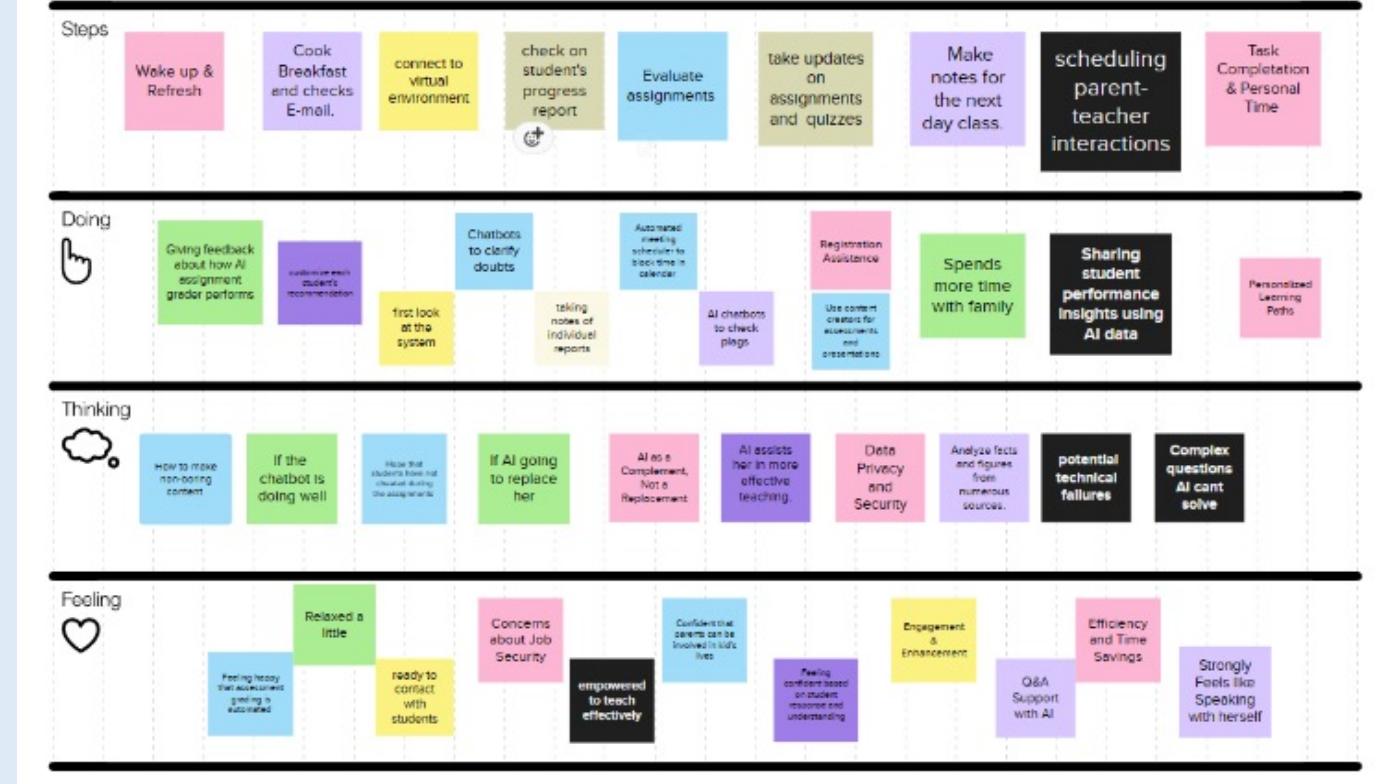
Thinking:

1. Worried about AI replacing her
2. How AI is helping her reduce her workload

Feeling:

1. Relaxed due to extra time and happy to spend it with family
2. Feeling confident about adapting to new technology
3. Feeling relieved that certain processes are automated

## TO-BE-SCENARIO MAP

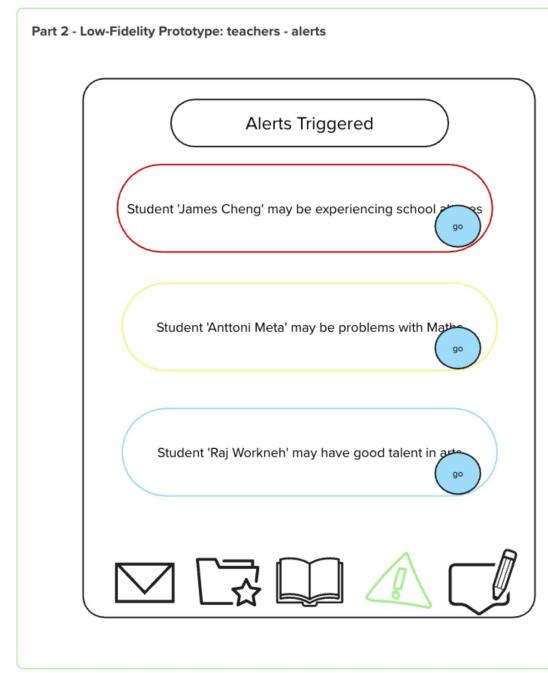
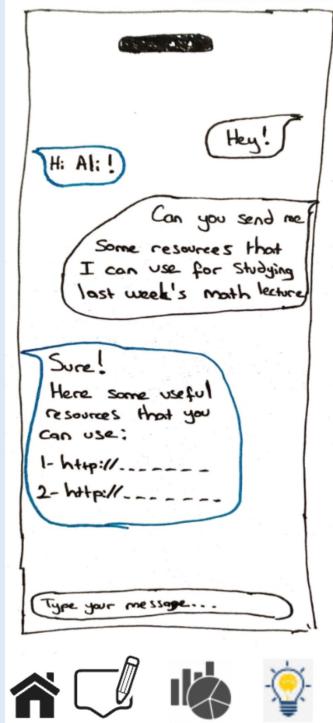
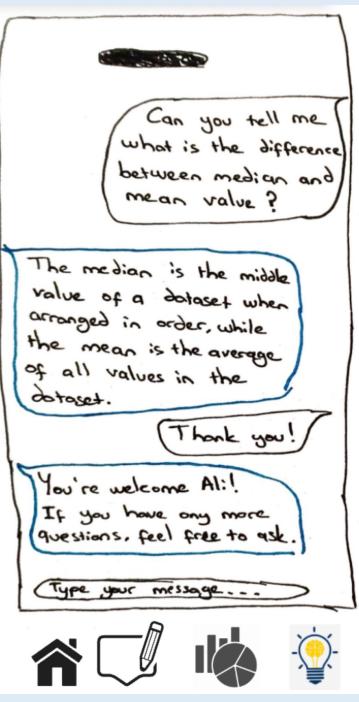
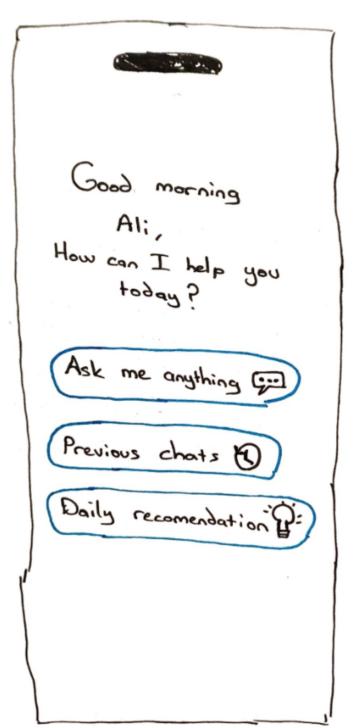




# Tasks

- Scenario – Student
  - 1. Ask a question (FAQs)
  - 2. Access previous chat history
  
- Scenario – Teacher
  - 1. Find pain points for students and address it
  - 2. Add a feedback for a student

# Initial prototype



**Screen 4**  
When clicking on the GO button it should open a direct chat between the student and the teacher.  
The teacher should discuss about the insight with the student directly.

9:02 SHIKSHA

Student Assessment

Student Information

Student Name: Anne  
Student Age: 16  
Student Gender: Female  
Student Phone No: 9636524514  
Student Address: 45, Green Park, New Delhi, Delhi, India, PIN: 110016

Student Chief Complaint: Irregular in Class

Observations:

1. Irregular in Class.  
2. Average Performance in Exams.  
3. Late Submissions.

Priority Selection:

<input type="checkbox"/> High Priority	<input type="checkbox"/> Low Priority
<input type="checkbox"/> Medium Priority	<input type="checkbox"/> Non-Urgent

Save & Update



# Usability Script

**Scenario 1:** You are a 2nd year student in Social Sciences. Your teacher made an announcement about a new app that can be used to clarify any doubts that you may have.

1. You are learning about a new topic in a class, and you are confused about it. How will you use the app to seek help?
2. Last week you had asked the application questions related to a project. You forgot to make notes from it. You want to access it now and take relevant notes. Can you please show us how you can do this?

**Scenario 2:** You are a math teacher. You heard about an application that can be used to monitor student's progress and provide them with instant help and feedback. You decide to try it out.

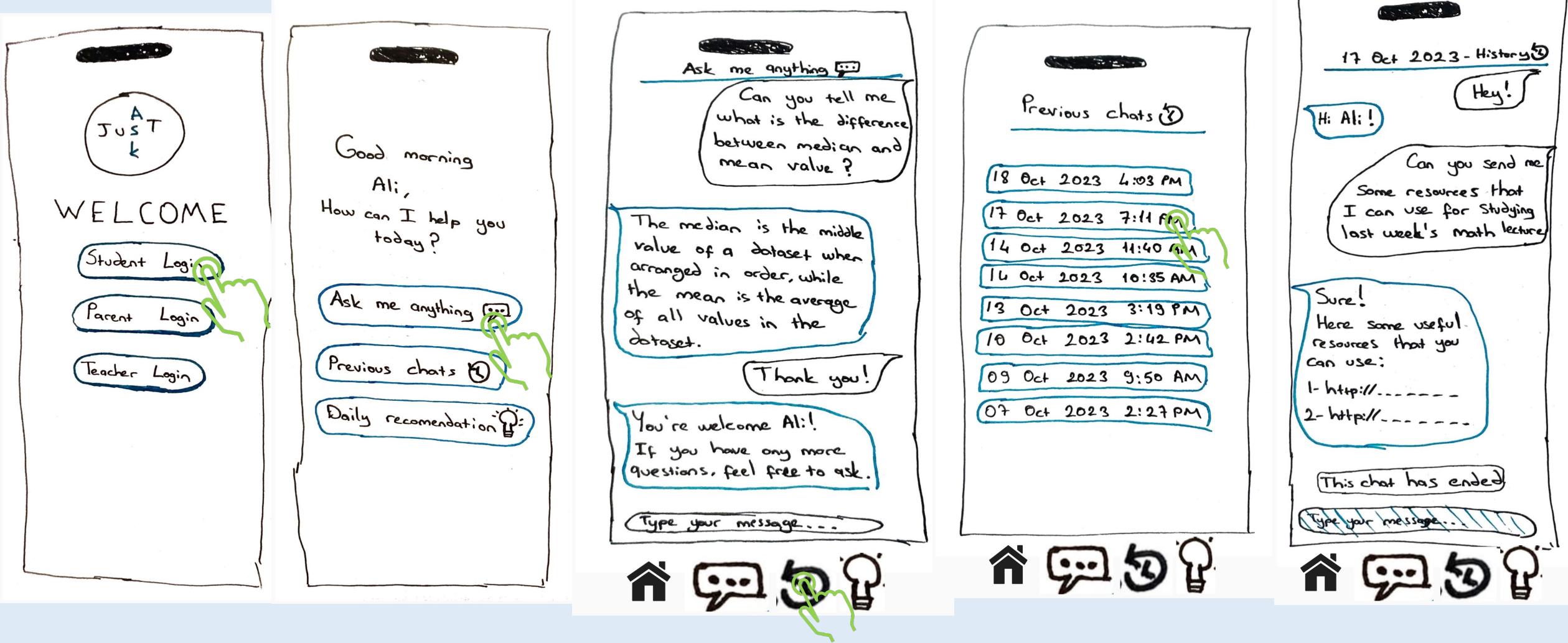
1. You want to check whether students are facing difficulties with any specific topic. If they are struggling, how will you reach out to them?
2. You notice that there are certain students that participate actively during the online classes, and you want to keep track of these students. How will you do this?

# Feedback from testing

- Rephrase task 1 for teacher – It was earlier worded as "You want to see which students have trouble at which points "
  - Rephrased it to "You want to check whether students are facing difficulties with any specific topic. If they are struggling, how will you reach out to them?"
- Add a timeline for the alerts/insights that are generated
  - The time in which the insight was generated by the application is also visible now
- Add relevant icons at the bottom of each screen so that it is easy to navigate to different screens
  - For ease of navigation we added the relevant icons at the bottom of each page

# Final Prototype

## Scenario-Student



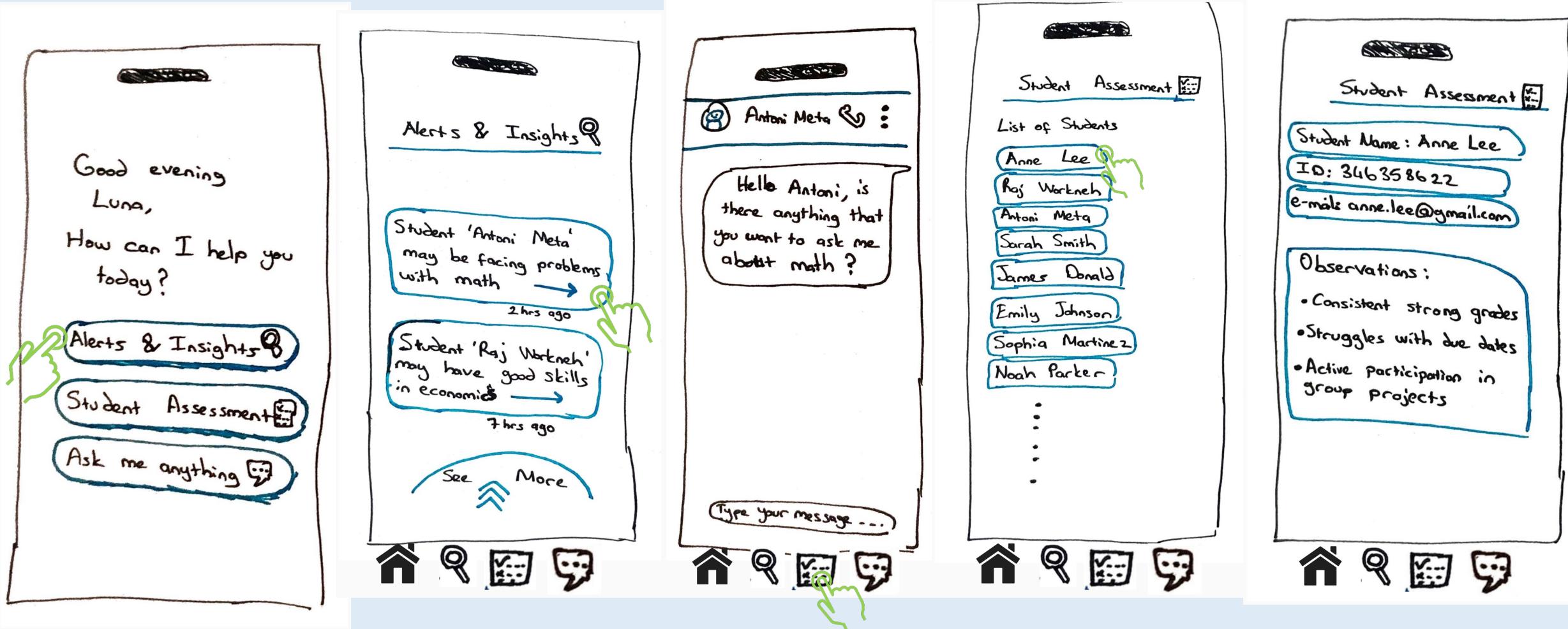
The image displays five hand-drawn wireframe prototypes for a mobile application, likely a student support chat service. The prototypes are arranged horizontally and show the flow of a conversation between a student and a bot named Ali.

- Welcome Screen:** Shows a 'WELCOME' message, three login options ('Student Login', 'Parent Login', 'Teacher Login'), and a large circular icon containing the letters 'A', 'J', 'U', 'S', 'T', 'k' (representing 'Just In'). A green hand-drawn arrow points from the 'Student Login' button towards the 'Ask me anything' button on the next screen.
- Initial Chat Screen:** Displays a 'Good morning' greeting from the bot. Below it, a message from the user asks, 'How can I help you today?'. At the bottom, there are four buttons: 'Ask me anything', 'Previous chats' (with a notification badge), and 'Daily recommendation'.
- Informational Screen:** Shows a question from the user: 'Can you tell me what is the difference between median and mean value?'. Below it, the bot provides an answer: 'The median is the middle value of a dataset when arranged in order, while the mean is the average of all values in the dataset.' A 'Thank you!' message follows, along with a note: 'You're welcome Ali! If you have any more questions, feel free to ask.' A 'Type your message...' input field is at the bottom.
- Previous Chats Screen:** A list of previous conversations, each with a timestamp and a small green hand-drawn arrow pointing to the first message in each entry. The messages are: '18 Oct 2023 4:03 PM', '17 Oct 2023 7:11 AM', '14 Oct 2023 11:40 AM', '14 Oct 2023 10:35 AM', '13 Oct 2023 3:19 PM', '10 Oct 2023 2:42 PM', '09 Oct 2023 9:50 AM', and '07 Oct 2023 2:27 PM'.
- Resource Screen:** A message from the user asking for resources to study last week's math lecture. The bot responds with 'Sure!' and provides two links: '1- http://-----' and '2- http://-----'.

Each prototype includes a navigation bar at the bottom with icons for Home, Chat, Notifications, and Settings.

# Final Prototype

## Scenario-Teacher



The image displays five wireframe prototypes of a mobile application interface, showing a flow from a general greeting screen to a detailed student assessment screen.

- Screen 1:** A general greeting screen with a blue header bar. The main content area contains:
  - "Good evening Luna,
  - "How can I help you today?"

At the bottom are three rounded rectangular buttons with blue outlines:
  - "Alerts & Insights" with a magnifying glass icon
  - "Student Assessment" with a document icon
  - "Ask me anything" with a speech bubble icon
- Screen 2:** An "Alerts & Insights" screen. It features a title bar with the same blue header. Below it is a list of two alerts:
  - "Student 'Antoni Meta' may be facing problems with math" (timestamp: 2 hrs ago)
  - "Student 'Raj Workneh' may have good skills in economics" (timestamp: 7 hrs ago)

At the bottom are four icons: a house, a magnifying glass, a document, and a speech bubble.
- Screen 3:** A conversation screen for "Antoni Meta". The title bar shows the student's name and a profile icon. The main content area contains a message from the teacher:

Hello Antoni, is there anything that you want to ask me about math?

At the bottom is a text input field with the placeholder "Type your message ...".
- Screen 4:** A "Student Assessment" screen. The title bar has the same blue header. The main content area shows a list of students:
  - Anne Lee
  - Raj Workneh
  - Antoni Meta
  - Sarah Smith
  - James Donald
  - Emily Johnson
  - Sophia Martinez
  - Noah Parker

Ellipses (...) are shown at the bottom of the list.
- Screen 5:** A detailed "Student Assessment" screen for "Anne Lee". The title bar has the same blue header. The main content area shows:
  - Student Name: Anne Lee
  - ID: 346358622
  - e-mail: anne.lee@gmail.com

Below this is a section titled "Observations" with the following list:
  - Consistent strong grades
  - Struggles with due dates
  - Active participation in group projects

# Thank You

## Group Members

1. Kumud
2. Baris Alan
3. Qianfan Cheng
4. Ali Guney sel
5. Sut Ring Ja K P
6. Erinda Kapllani
7. Rajvi Patel
8. Kajhonprom Trongkitroongruang
9. Madhoumithaa Veerasethu