

A photograph of a classroom. A professor in a dark blue t-shirt and jeans stands at the front right, gesturing towards a whiteboard. Students are seated at long wooden desks, some looking towards the front. A laptop is open on a desk in the foreground. The room has large windows and a whiteboard.

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Online classroom manager

Final Presentation

Braden Lawrence 10/7/2015



Problem Statement

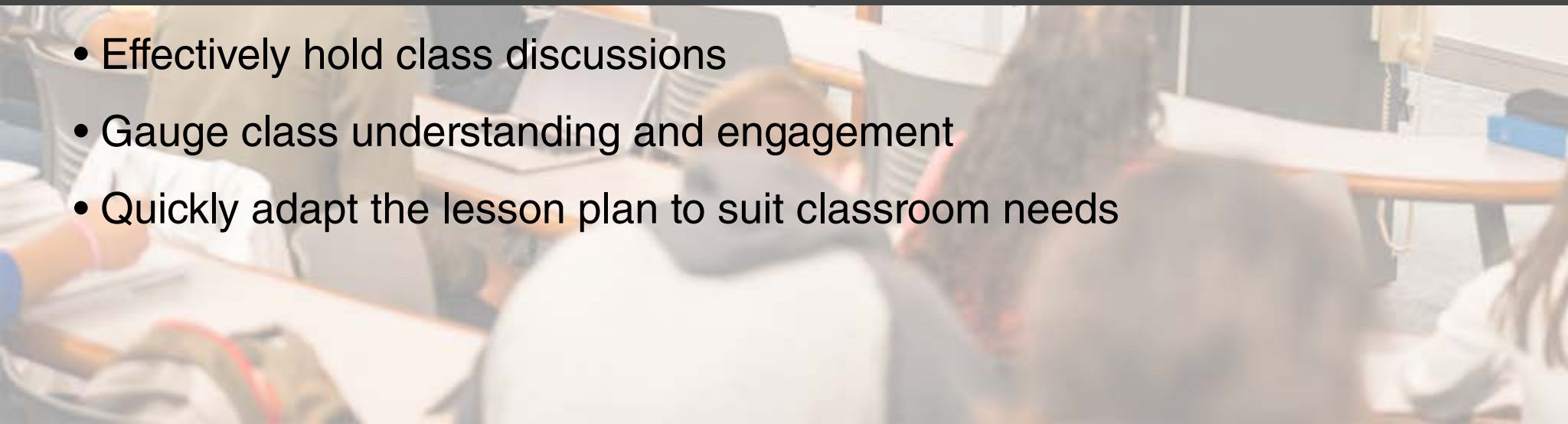
What do teachers need to conduct class online as well as they do in person?



A photograph of a classroom. On the left, a young man is seated at a desk, looking towards the right. In the center, there is a doorway and a window. On the right, a man with glasses, wearing a dark sweater, stands in front of a whiteboard, gesturing with his right hand. The text "Problem Statement" is overlaid in red on the left side of the image.

Problem Statement

What do teachers need to conduct class online as well as they do in person?

- 
- A photograph of a classroom from a student's perspective. Several students are seated at desks, some with laptops open. The scene is slightly blurred, focusing on the foreground students.
- Effectively hold class discussions
 - Gauge class understanding and engagement
 - Quickly adapt the lesson plan to suit classroom needs

A man in a dark shirt and glasses is standing in front of a whiteboard in a classroom, gesturing with his right hand. To the left, another man is partially visible, looking towards the presenter. The room has large windows and a door in the background.

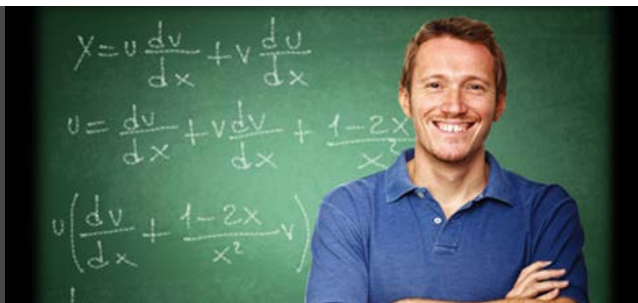
Research Summary

- Student engagement is highly dependent on the teacher's ability to drive conversations forward, set expectations, and provide feedback
- Teachers generally aren't trained how to manage classes online

A blurred view of a classroom with several students sitting at desks. A laptop is open on a desk in the foreground. The students are looking towards the front of the room.

Process

- 2 teacher interviews
- 1 teacher assistant interview
- 3 student interviews
- 8 student survey responses



Ben

“Why does my class fall apart once they go home?”

About

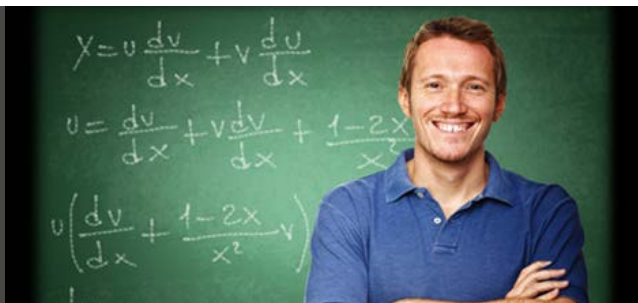
- Teaches a blended learning class of 10 Graduate students
- Very computer literate
- Skilled at managing group discussions in class
- Unable to do the same online
- Assigns 4+ hours of reading homework per week

Pain Points

- Students don't communicate often outside of class
- Large time gap between assignments and feedback
- Has no training on LMS tools
- Class feels disorganized

Goals

- Have a concrete system for online group discussions
- Instantly know how his students understand the learning materials



Ben

“Why does my class fall apart once they go home?”

Goal 1

Ben wants to discuss today's lesson with the class

Tasks

1. Prepare a lesson that covers the learning objectives for today.
2. Present today's lesson to the class
3. Navigate to the “Classroom chat”
4. Ask questions to the class and receive answers via the chat
5. Guide the discussion until class is over

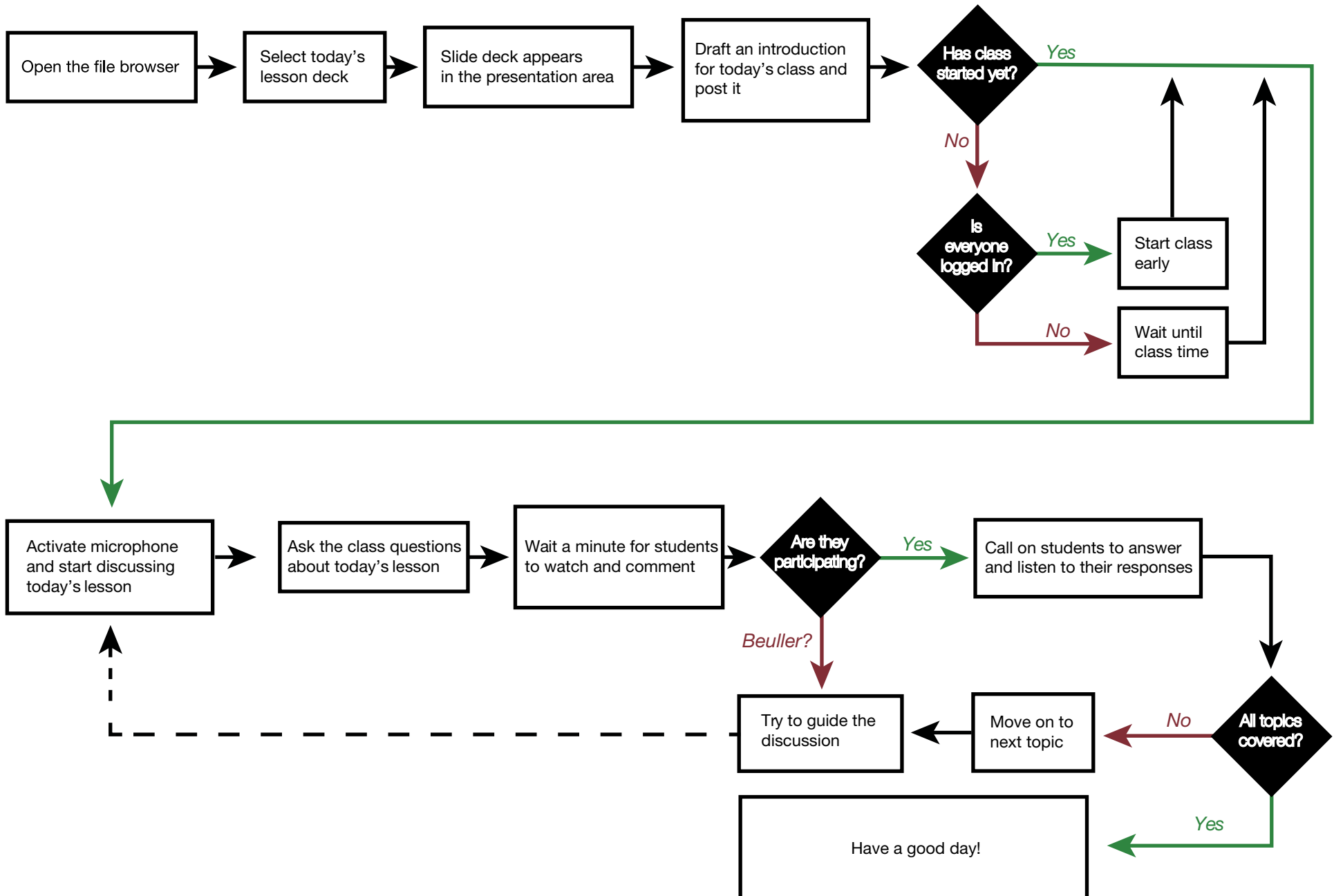
Goal 2

Ben wants to discuss a video with the class.

Tasks

1. Consider the lesson goals and select a video that corresponds to them
2. Draft questions and comments about the video to focus students' attention
3. Log in to the app and navigate to today's class
4. Present the video to the class
5. Review student responses and guide the conversation with your own

Ben Goal 1 - Discuss today's lesson with the class





Sandra

“How can I keep all of these students on track?”

About

- Teacher Assistant for an online class of 50 Undergraduates
- The teacher will often split the class into groups and ask her to help facilitate
- She helps answer questions when students bring them to her
- Students figure out their own ways to work together and she doesn't have much access to the group discussions

Pain Points

- Can't listen in to each groups' conversations
- It's hard to tell if each group member is contributing
- She can't guide discussions, she can only answer questions that they come to her with

Goals

- Wants a dedicated place for groups to meet
- Wants to be an active part of each groups' discussion.



Sandra

“How can I keep all of these students on track?”

Goal 1

Sandra wants a dedicated place for groups to meet.

Tasks

1. Navigate to her class
2. Create new chat areas for each group
3. Assign an equal number of students to each group
4. Provide each group with unique instructions, if needed

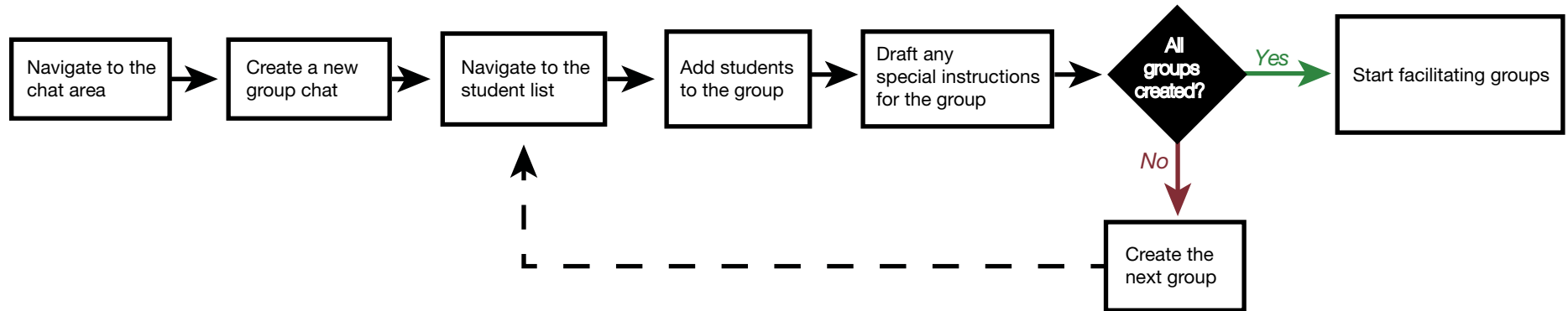
Goal 2

Sandra wants to be an active part of each groups' discussion.

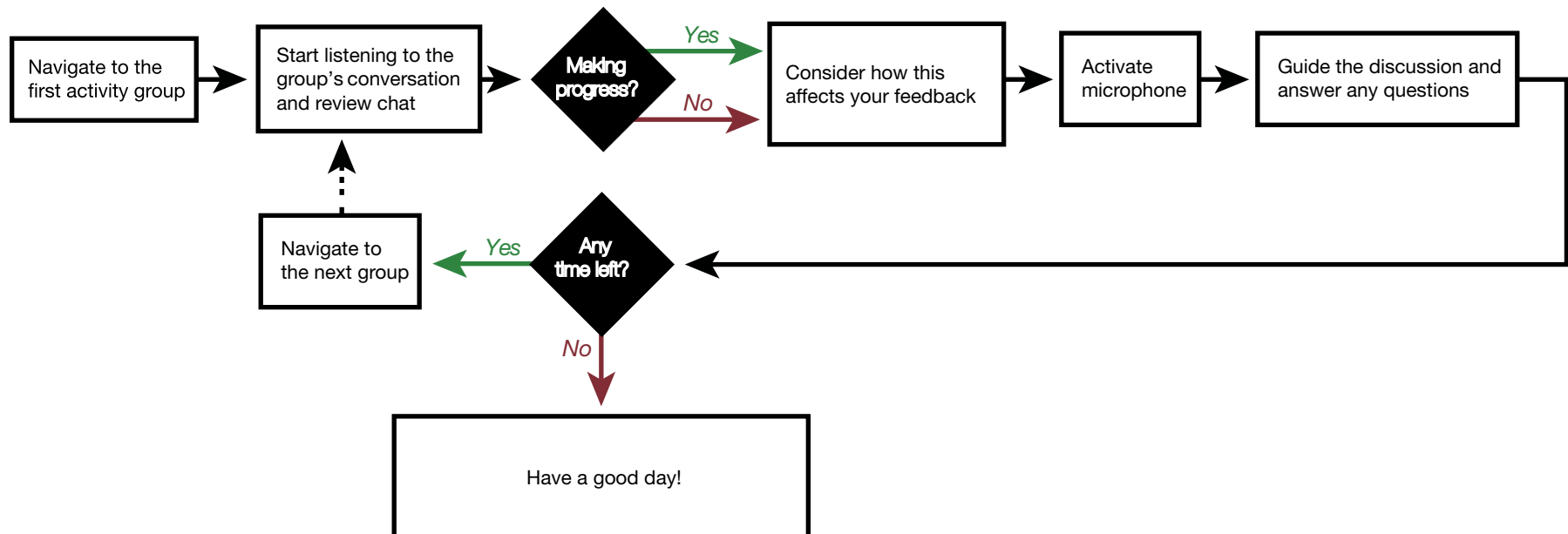
Tasks

1. Navigate to the first group
2. Add yourself to that group and review the ongoing discussion
3. Guide the group based on their progress and answer any questions
4. Proceed to the next group and repeat

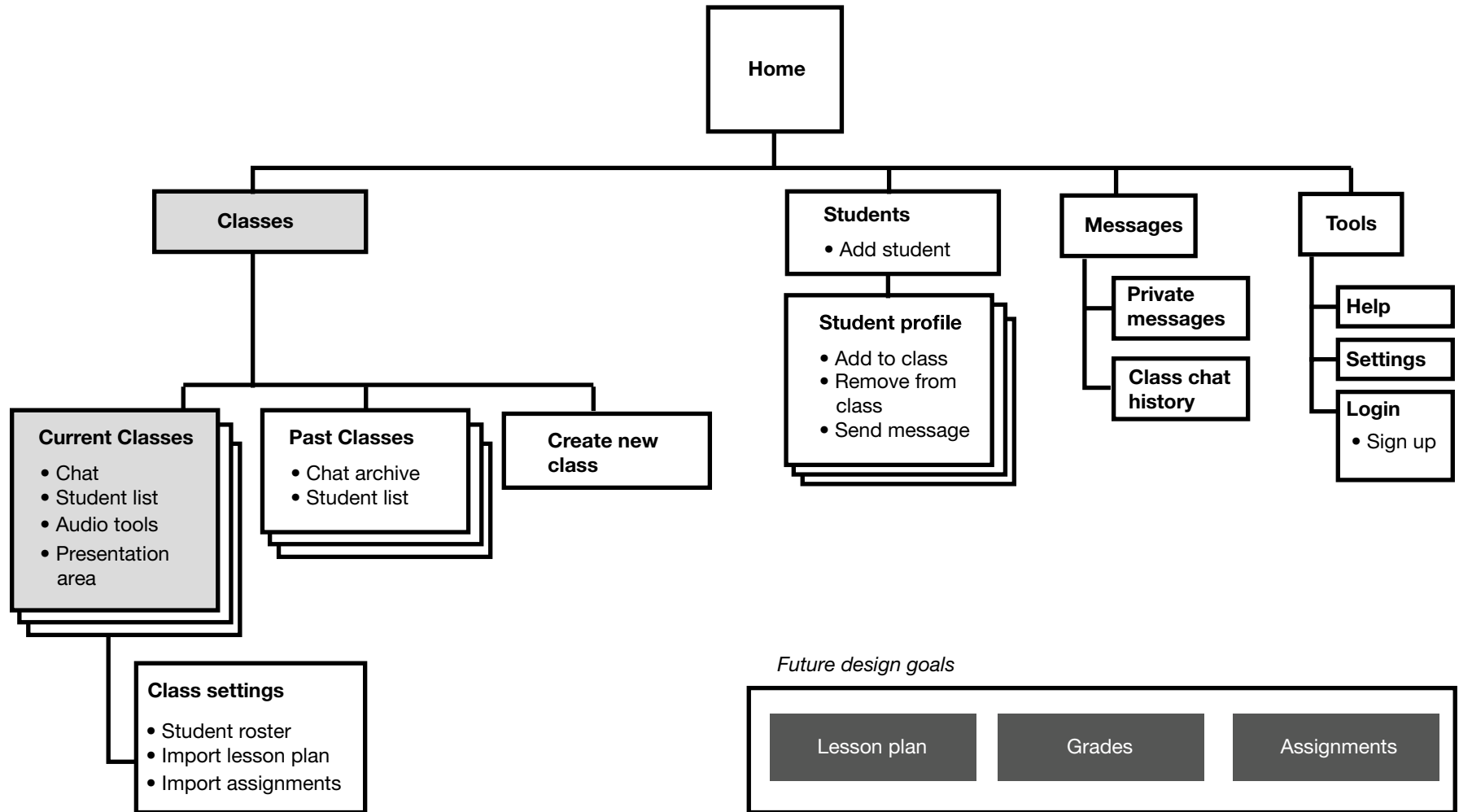
Sandra Goal 1 - Set up a group activity



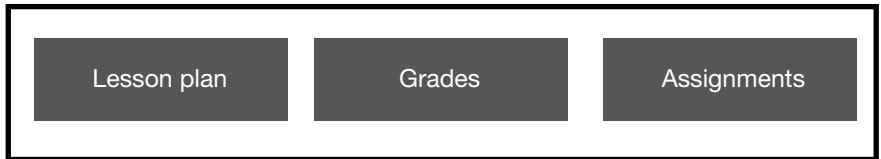
Sandra Goal 2 - Facilitate a group activity



Site Map



Future design goals



A photograph of a classroom. A professor in a dark blue t-shirt and glasses stands at the front near a whiteboard, gesturing with his right hand. Students are seated at long wooden desks, some looking towards the front. A laptop is open on a desk in the foreground. The room has large windows and a whiteboard.

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Launch prototype:
<https://invis.io/7C4FAA3AR>