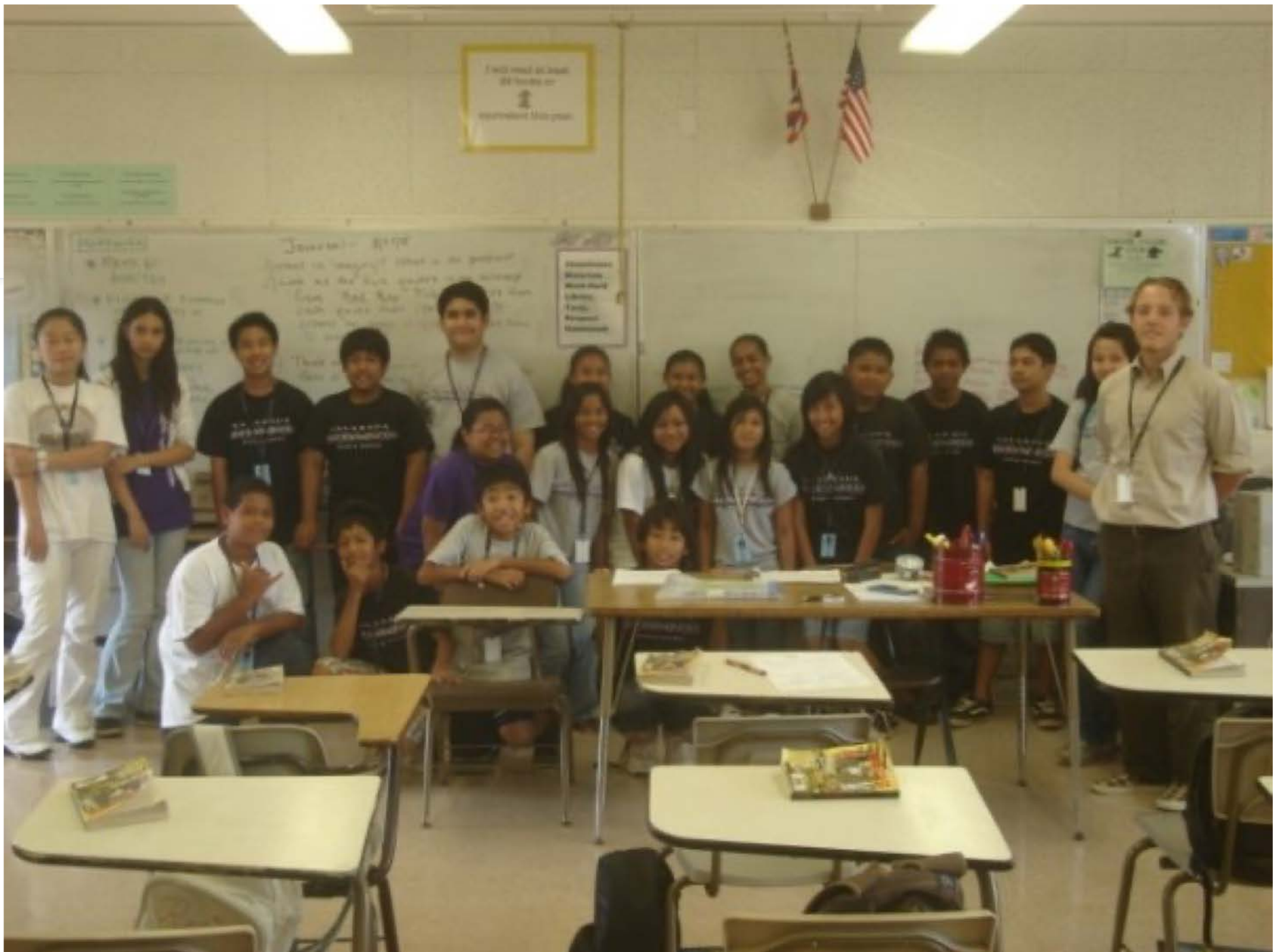




Capstone Presentation

Josh Weiss

December 13, 2019





Overview

- Perform user interviews
- Design prototype
- Integrate user feedback
- Code app
- Manage timeline
- Deploy app

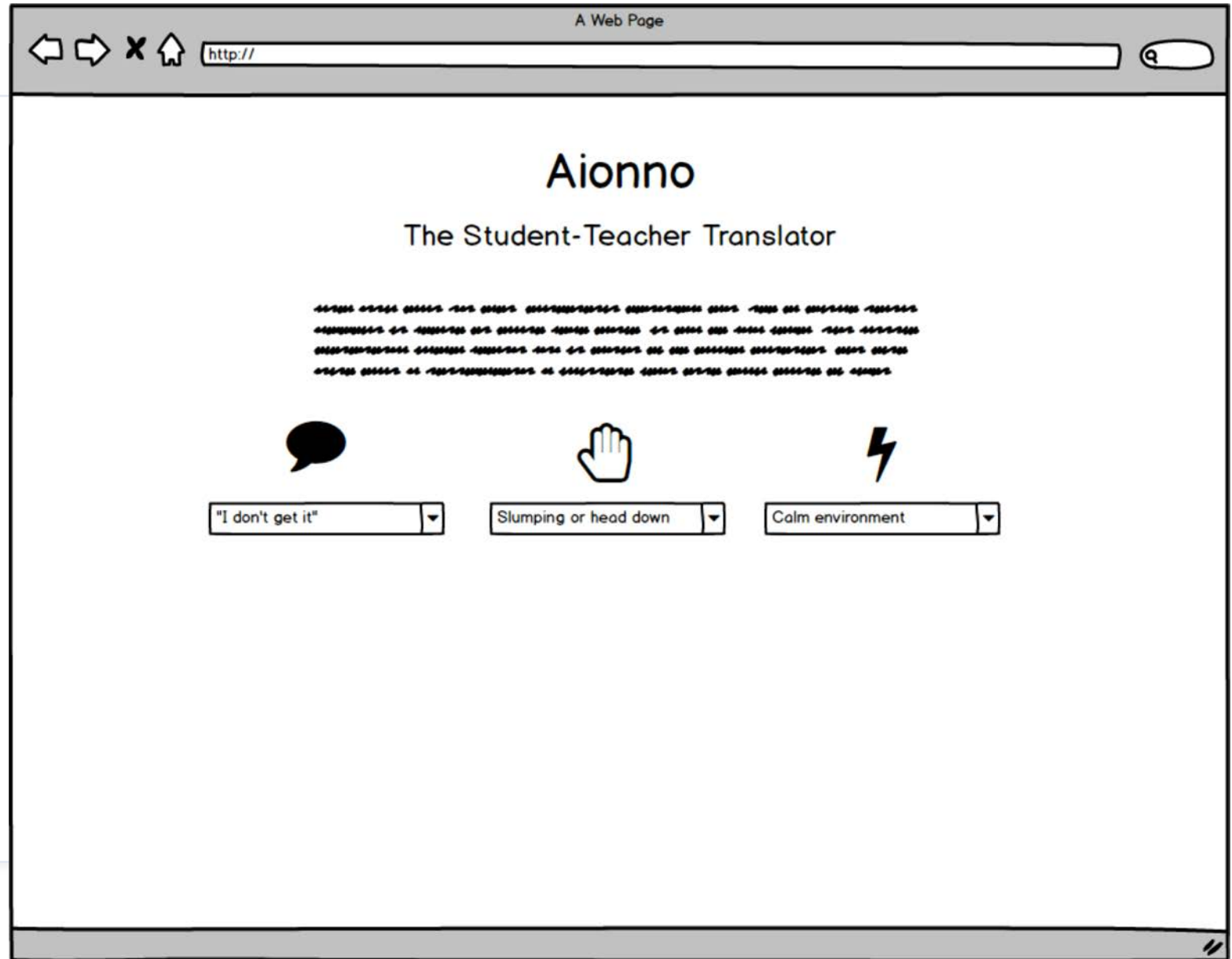
Perform user interviews



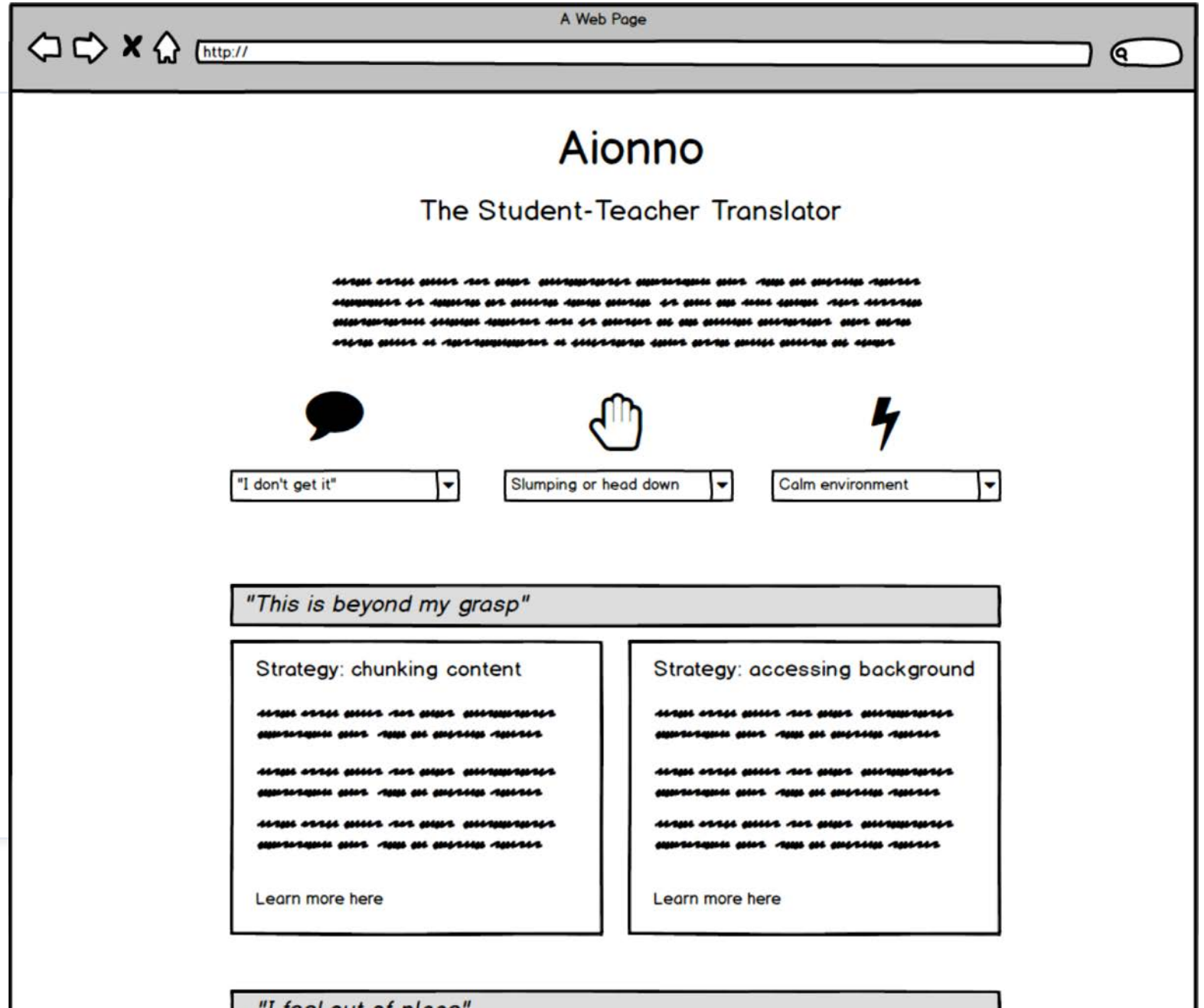
Perform user interviews



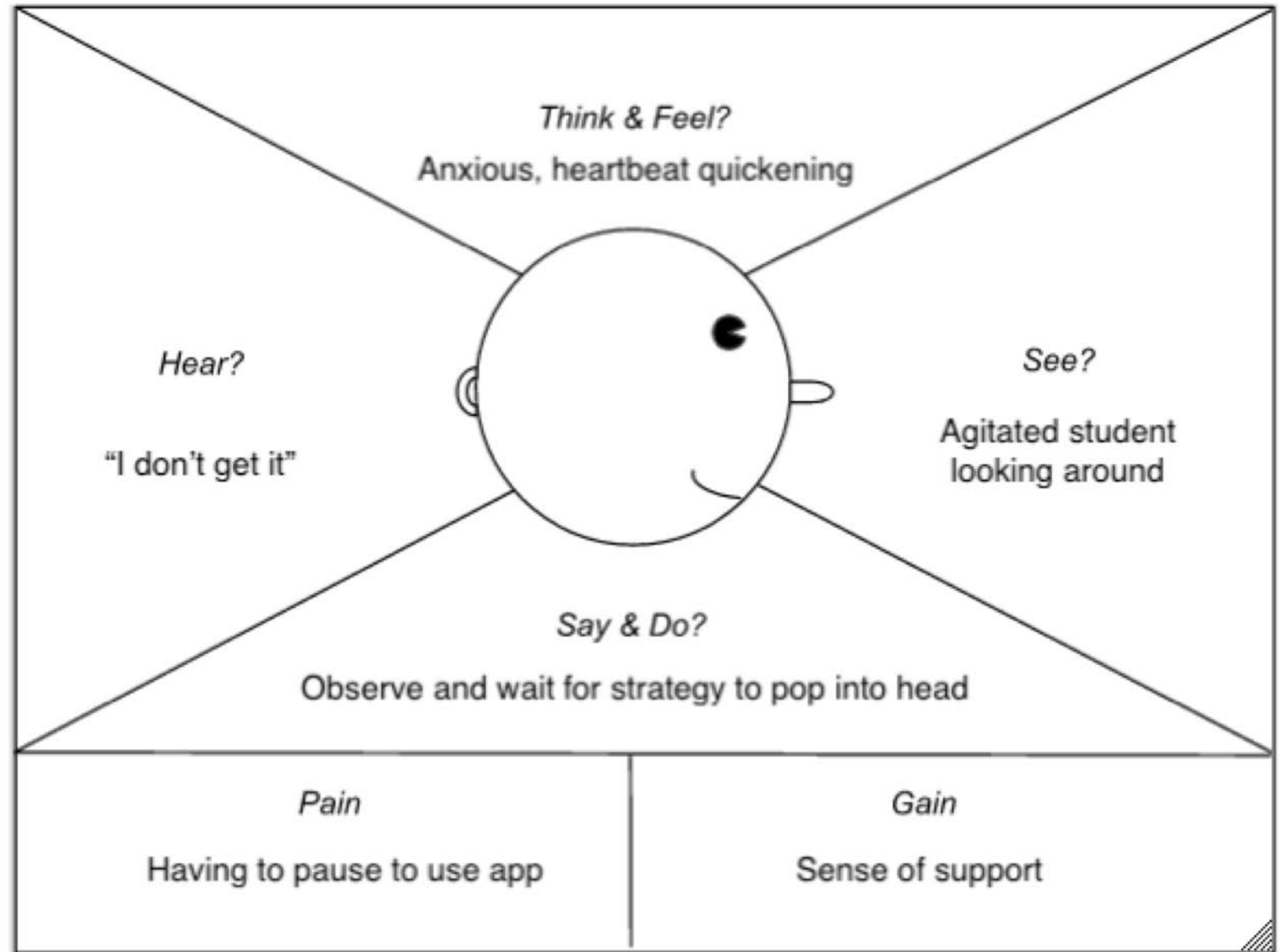
Design prototype



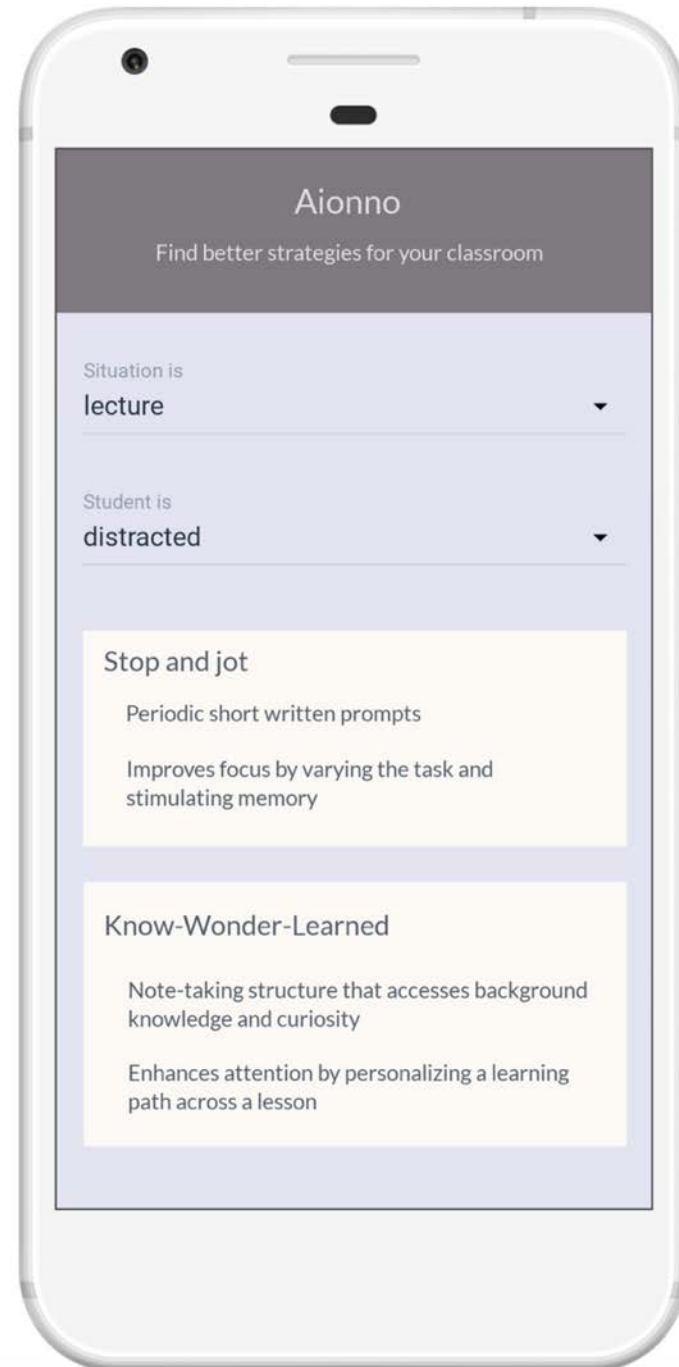
Design prototype



Integrate user feedback



Integrate user feedback



Technologies

Node.js (package manager)

Express.js (server, routing)

Pug (template engine)

Sass (CSS)

Bootstrap 4 (Responsive design)

Back-end development

```
var rawData = [  
  {  
    name: "chunking",  
    studentState: [ "timid", "confused", "anxious" ],  
    situationState: [ "lecture", "guided practice", "assessment" ],  
    description: "breaking concepts down into smaller pieces",  
    ageOfStudent: [ "10-12", "13-15", "16-18" ],  
    strategyType: [ "cognitive" ],  
    strategySubtype: [ "organization/restructuring" ],  
    contentArea: ["mathematics", "natural sciences", "English", "social sciences", "history", "writing",  
    "reading", "foreign language" ],  
    implementationDifficulty: 6,  
    urlToResources: [ "https://www.facinghistory.org/resource-library/teaching-strategies/chunking" ],  
  },  
  {  
    name: "non-verbal signals",  
    studentState: [ "hyperactive", "angry" ],  
    situationState: [ "guided practice", "independent work", "transition", "group work" ],  
    description: "using gestures or space to focus the group and establish control",  
    ageOfStudent: [ "10-12", "13-15" ],  
    strategyType: [ "socio-emotional" ],  
    strategySubtype: [ "cognitive regulation" ],  
    contentArea: ["mathematics", "natural sciences", "social sciences", "English", "history", "writing",  
    "reading", "foreign language" ],  
    implementationDifficulty: 2,  
    urlToResources: [ "https://teacher-blog.education.com/using-attention-signals-in-the-classroom-  
    1cb638930d3e" ],  
  },  
]
```

Back-end development

```
// use pug view engine  
app.set('views', path.join(__dirname, 'views'));  
app.set('view engine', 'pug');  
  
// set up routes and routers  
app.use('/static', express.static(path.join(__dirname, 'public')));  
app.use('/home', home);  
app.use('/about', about);  
app.use('/', home);
```

Front-end development

localhost:3030/home#

Aionno

Find better classroom strat

Student is Situation is

anxious



lecture



Strategy list here:

localhost:3030 says

timid

OK

Front-end development

```
$primary-text-color: white;  
$secondary-text-color: white;  
$p-text-color: #175869;  
$background-color: #9FD5E3;  
$alert-color: #8DE7FD;  
  
$primary-font: 'Raleway', Arial;  
$secondary-font: 'Open Sans', sans-serif;
```

Deploy app

Aionno

Find better classroom strategies

Discover [Contribute](#) [About](#)

Student is

angry

Situation is

any

Name: non-verbal signals

Description: using gestures or space to focus the group and establish control

Name: affirmation

Description: establishing identity and worth

Age of student

- 10-12
- 13-15
- 16-18

Content area

- Mathematics