

# Hi-fi Prototype milestone

Team EduConnect



Value Proposition:  
Painless class projects

## Team EduConnect

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## Problem

Teachers and students find it time-consuming and difficult to successfully create and complete class projects.

## Solution

A tablet app that streamlines class projects from teacher creation to student submission



# Overview

- Heuristic Evaluation Results
  - results
  - revised design
- Implementation Status
  - current state
  - where we're going
- Demo

# Heuristic Evaluation Results and Our Changes

# Navigation and consistency

## Heuristic Evaluation Feedback:

- Where does 'home' 'nav' 'notifications' take you when in the app?
- What does the home button mean?

## Changes:

- Make sure the navigation button links to the same place
- Clarify the use of it

# Logging in and out

## Heuristic Evaluation Feedback:

- Logging out and changing project -- or for teacher to go from creating to managing.
- There was no log out, or changing from student to teacher.

## Changes:

- Making transitions easier within the app and being consistent about where the 'home' button will lead.
- Creating a log out option.

# Teacher creating a project

## Heuristic Evaluation Feedback:

- How the teacher finalizes the project -- taking away unnecessary clicks and recall
- Consistency in system status messages
- Error prevention in the teacher creating project part (correcting mistakes in previous steps)

## Changes:

- Making the creation project build more on affordances of as regular text editor.



# Prototype Implementation

# Tools Being Used

## Frameworks

### Ruby on Rails

- What we had some experience with
- Auto generate files
- So that everyone in the group could contribute

### Heroku web hosting

- Access anywhere



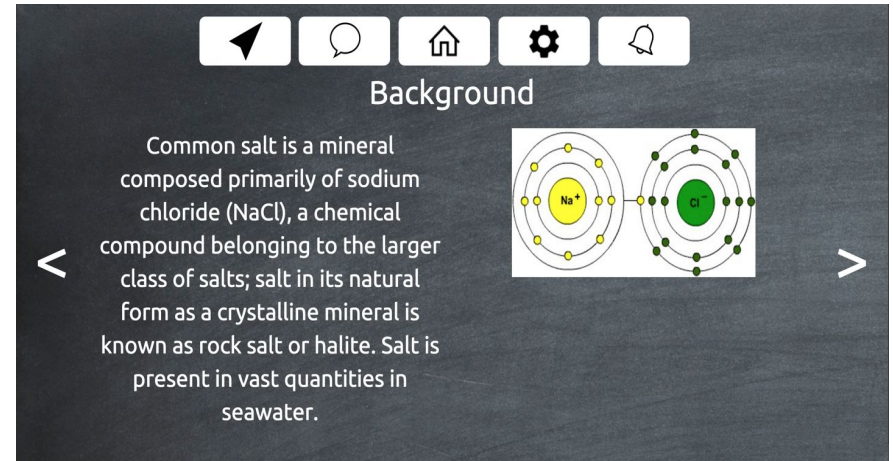
## Technical Tools

HTML/CSS, Javascript, Bootstrap,  
sqlite3, Postgresql

# Implemented Features So Far

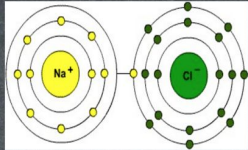
Medium Task: Student completing a project

- Front-end:
  - Responsive HTML/CSS layouts
  - Hard coded data
- Back-end:
  - Database E/R diagram
  - Database schema and tables
  - Database integrity testing



Background

Common salt is a mineral composed primarily of sodium chloride (NaCl), a chemical compound belonging to the larger class of salts; salt in its natural form as a crystalline mineral is known as rock salt or halite. Salt is present in vast quantities in seawater.

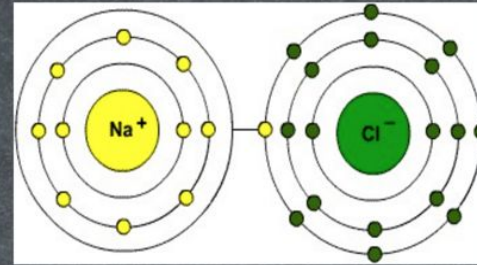


# Front-end

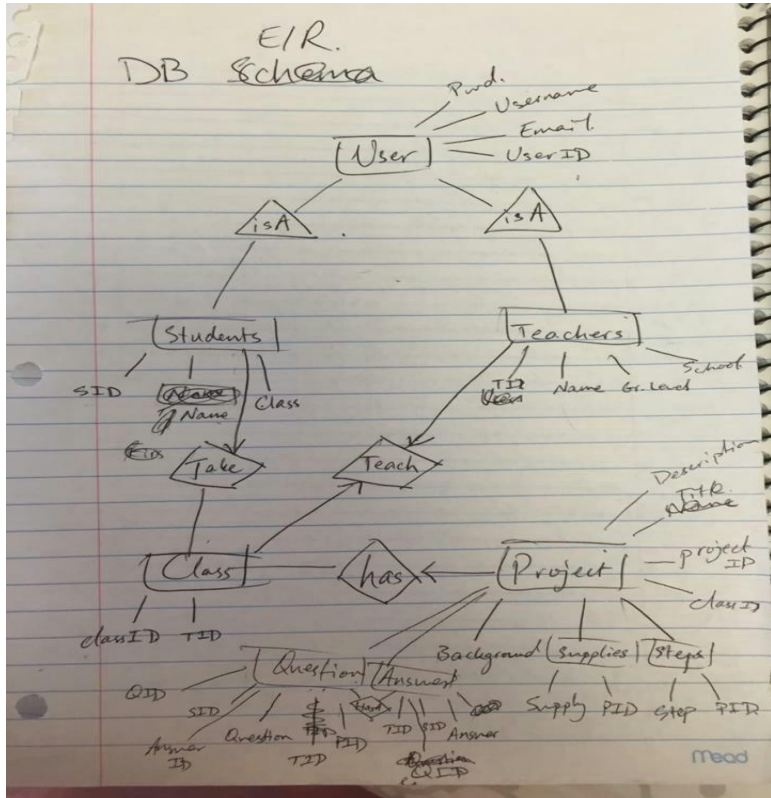


## Background

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# Back-end



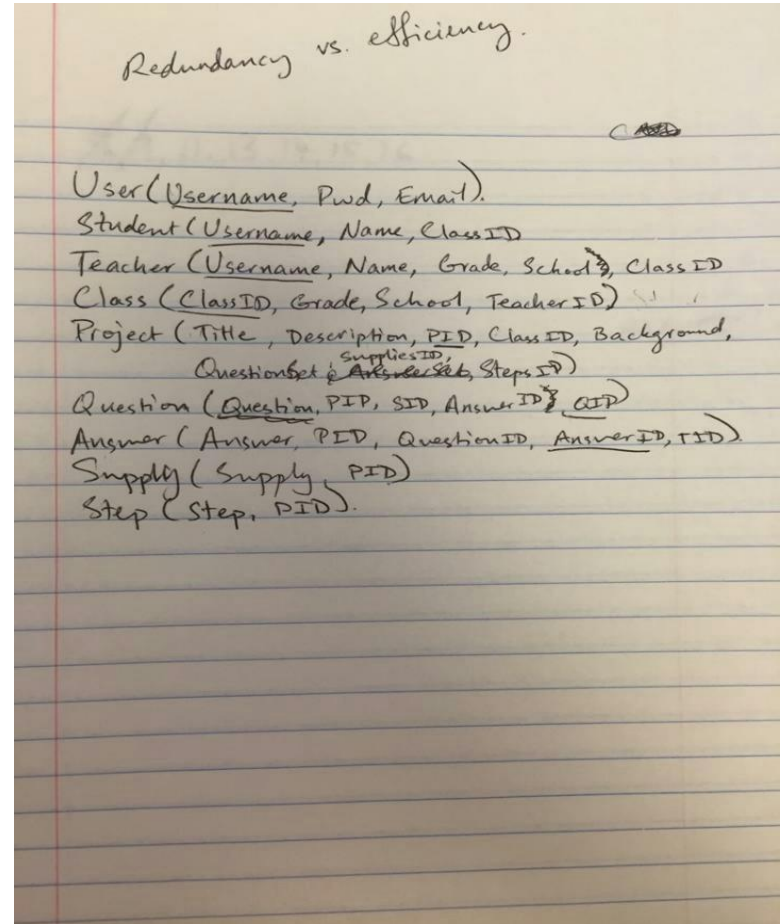
## Entity-Relation (E/R) Diagram

- Shows hierarchy of “objects”
- Helped us envision schema

# Back-end

## Schema

- What goes in what table
- What variables to keep track of
- Redundancy vs. efficiency



# Unimplemented Features we Plan to Finish

- HTML/CSS Layouts
  - Navigation
  - Q/A Forum
  - Log in/log out pages
- Back-end
  - Dynamically populated data from database

# Wizard of Oz Techniques

- Many, many divs
- Using an application controller to standardize certain parts of the layout
- Responsive design
  - Scale down by 50%



# Hard Coded Data

- Static project data in HTML pages
- Fixed projects in database
  - Mainly used for testing
  - To be changed once task 1 (teacher creation) implemented

# Issues and Questions

- Front-end
  - How to custom design text and integrate graphic design?
  - How to make a page output depend on user's step?
- Back-end
  - How to get data from HTML page and put it in the database?
  - How to dynamically populate HTML page with data from database?
  - How to handle incomplete data entry (task 1)?

Demo

# Summary

- We have been building a mobile web-app that is more suitable for our team to implement given our limited experience with iOS and web app dev.
- Implemented task 2
  - HTML files with hard coded data that link to each other
  - Database created and tested
- Looking forward
  - Task 1 & Task 3
  - Dynamic generation of data