

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green color. They are positioned diagonally, with the blue one partially covering the green one.

Tutor Taker

Team Members: Patrick Faulkner,
Michelle Tran, Kevin Lawton, John
Ortiz, Kai Hueske-VanCeylon



Vision

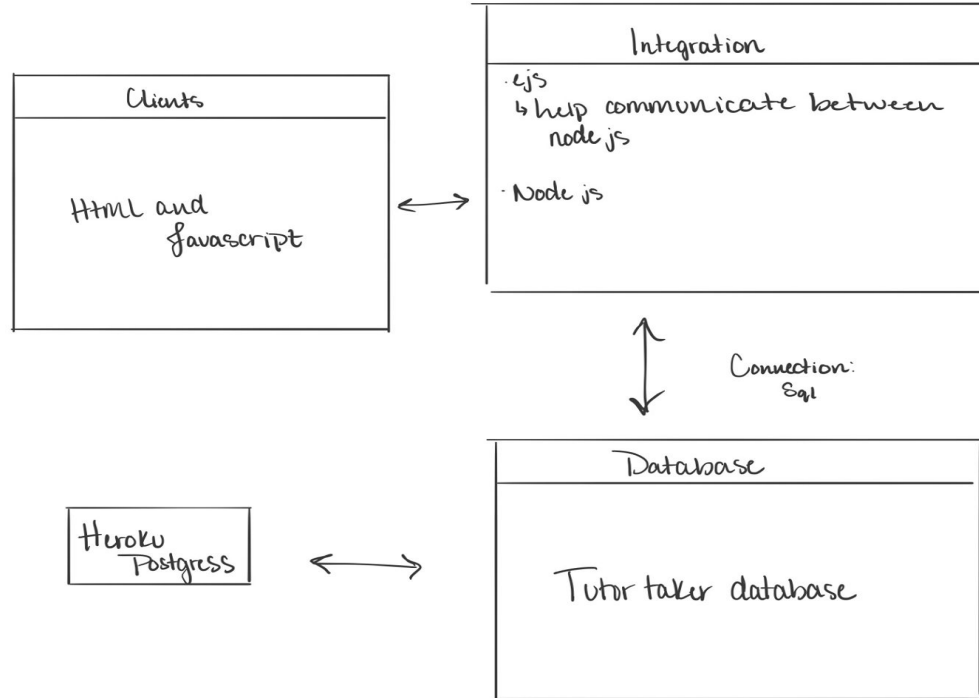
- Easy and useful way to connect students & tutors
 - Built with college students in mind, but open to all
- Venue where:
 - Students can seek academic help
 - Tutors can market themselves & reach an established base of users



Implementation

- Web app
 - Mobile-friendly - Bootstrap
- Users create accounts including:
 - Profile - name, subjects studying, level of schooling
 - Whether user is a tutor, student, or both
- Users can:
 - Search for tutors by major, name, rating
 - Message tutors to set up meetings, etc.
 - Leave feedback & ratings for tutors

Architecture





Heroku

- Platform-as-a-Service (PaaS)
- PostgreSQL addon
- Rating: 5 stars!
 - Great platform with good documentation & excellent potential for integration/extendability



NodeJS Server

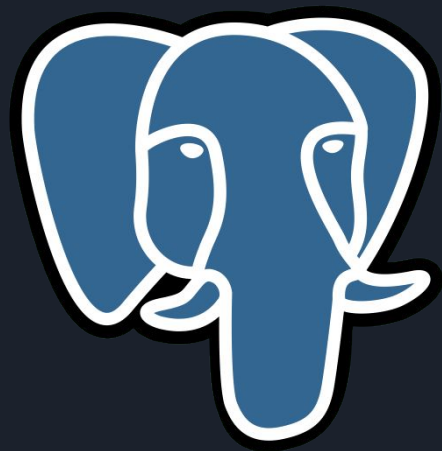
- Interfaced with DB & front-end
- Rendered pages using EJS view engine
- Express server framework with session management
- Rating: 3 (Helpful, but steep learning curving)





PostgreSQL

- Managed tables for users, feedback, and message data
- Rating: 3 stars
 - Solid tool, but others (MySQL) exist with more functionality





Embedded JavaScript (EJS)

- Provided easy extensibility for HTML web pages
- Gives access to `<% %>` tags that allows you to embed JavaScript into HTML
- Rating: 5 stars!

`<%= EJS %>`



Chatkit

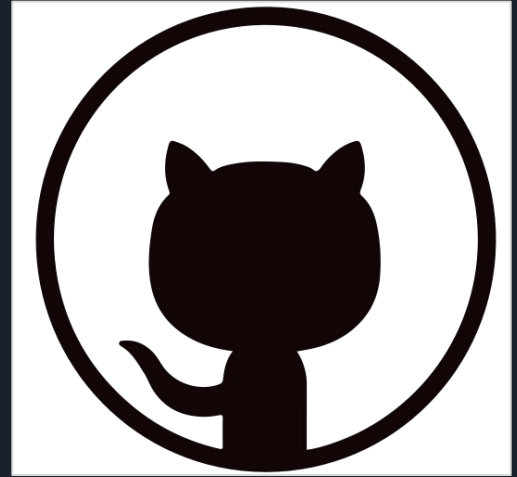
- 3rd-party message storage & management
- Rating: 1
 - Does not work as it's supposed to
 - The tutorials on the website don't really work
 - Difficult to host locally





GitHub

- VCS Repository
- Where we hosted our Kanban
- Rating: 5 stars!





Slack

- Primary form of communication
- Allowed to share code snippets
- Rating: 5 stars!





Project Management

- Agile methodology
 - Week-long sprints, weekly scrums & mid-sprint meetings (12pm Mon-Wed in Gemmill Library)
 - Rating: 4 stars!
- Kanban project management tool
 - Board for each section of project as well as overall project
 - Rating: 4 stars!

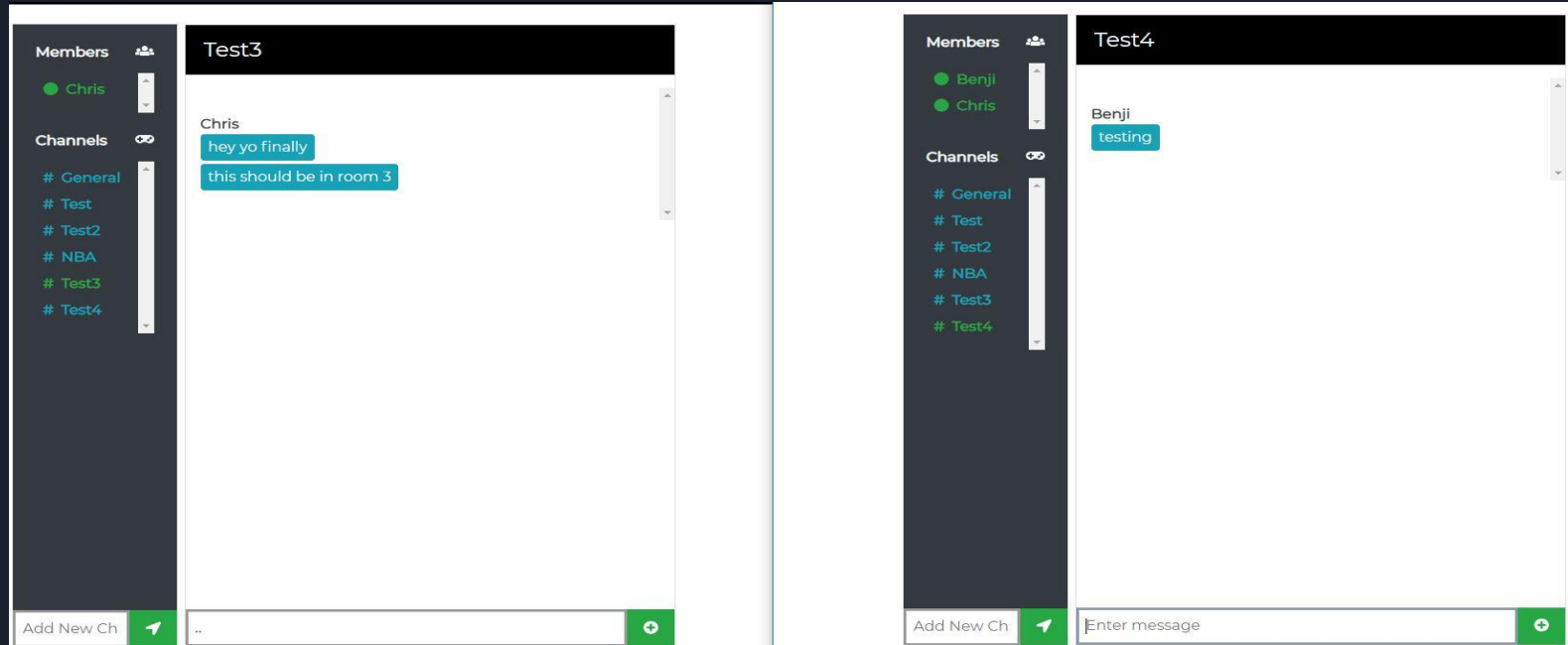


Challenges

- Difficult to make initial plan
 - Didn't understand tools available to us, therefore couldn't make a coherent model of software stack until midway through semester
 - Overcame by intense self-teaching
- Had to essentially create a separate individual messaging website and merge it with our tutor filter
- NodeJS
 - Issue sourcing files after started to implement
 - Issue use `res.render` and `res.redirect` in same `get/post` request

Chat Functionality --- Currently Implementing

- Will create rooms when student chooses tutor or vice versa
- Rooms will be named after the student's and tutor's first names
- Incorporate push notifications





Demo

- About page
- Register
 - Student
- Login
 - Student
 - Wrong password
- View tutor search
 - Filters
- Leave feedback
- Edit profile