A Midsummer's Night Team PRESENTS:

Study Buddies

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What is Study Buddies?

- A website geared towards student engagement

- Fosters creativity, collaboration, and maximal learning

- Currently focuses on CSCI students

How does it work?

- Users will register an account with a valid email address

- Specify classes they are in and would like help in

- Once logged in they are redirected to the home page

- The homepage contains interactive components to post an inquiry for help

Course Select   Select... ∨   **Location**   Select... ∨   **Description**   Enter text   Submit

Course ▲	Location ▼▲	Contact Information	Message
CSCI_2270	CSEL	foobar@gmail.com	I need help with red / black trees!
CSCI_2270	MATH	ParisMassiveBook@gmail.com	Lets figure out what pointers are!
CSCI_2270	MATH	beerIsGod@gmail.com	Hash Tables?
CSCI_2270	MATH	hello@gmail.com	lets get this bread
CSCI_2400	DLC	JuicyJay@superstar.com	Bomb Lab
CSCI_2400	DLC	JamisonRugbyMan@gmail.com	Working through greedy Algorithms
CSCI_2400	CSEL	JulianBobillian@gmail.com	Looking for study group for midterm
CSCI_2400	DLC	prettyPrincessPari94@gmail.com	Working on this weeks reading quiz! Get at me.
CSCI_2400	CSEL	dirtyThirty@gmail.com	Bomb Lab: Extra Credit

Project Management Methods Used

- Agile-ish Method- constant dialogue through GroupMe
- Group code review and offering help/advice
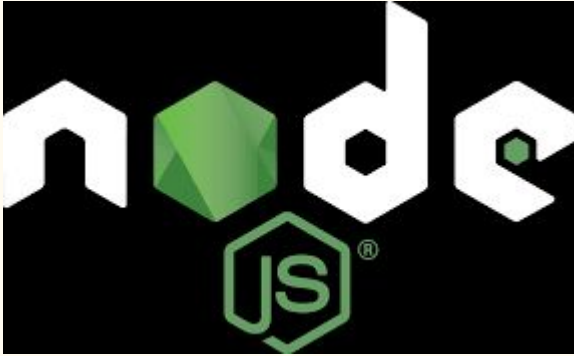- Not solely agile due to continuous learning curve

Development

Tools Utilized

- React - front-end
- CSS - front-end
- Node.js/Express - back-end
- Postgresql - database
- Trello - project management
- Groupme - group communication
- Github- VCS Repository
- Mocha - testing
- Local host - deployment

Tool Name: Node.js

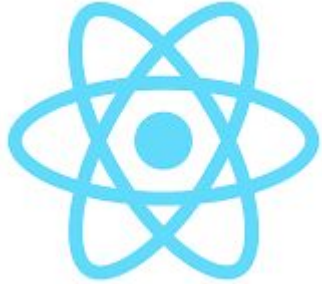Purpose: Runs the back end, used mainly on the server side

Group Rating: ★★★★

Pros:

- Relatively easy to implement
- Offers many support libraries/dependencies
- HTTP Requests were easy to implement
- Communicating with our db was simple

Cons:

- Large learning curve

Tool Name: React

Purpose: Used to design the user interface, written in javascript

Group Rating: ★★★★

Pros:

- Component based (large projects)
- Many resources for learning
- npm has endless open source resources

Cons:

- Large learning curve
- Memory management difficult for beginners

Tool Name: Heroku

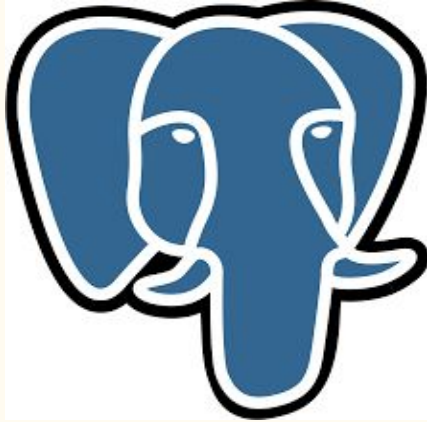

Purpose: Deployment

Group Rating: ★★★★★

Pros:

- Easy to use
- Accessible by people outside of the team

Cons:

- Doesn't allow for multiple servers to be hosted on the same dyno without the paid plan
- Servers go to sleep when not in use without paid plan

Tool Name: Postgresql

Purpose: Allowed us to have a database of user information and user's post information.

Group Rating: ★★★★★

Pros:

- Easily communicate with our application to form a database

Cons:

- Some group members were not able to get PGadmin running

Tool Name: Local Host

Purpose:

Hosted our API server and Front-end server during development.

Group Rating: ★★★★★

Pros:

- Great for troubleshooting during development
- "Nodemon" allowed for real time updates while coding (restarted the server each save)
- "Concurrently" allowed us to launch both our servers simultaneously

Cons:

- It's hosted...locally
- Can hide bugs that will be exposed if deployed

Tool Name: GroupMe

Purpose: Used to communicate with other group members.

Group Rating: ★★★

Pros:

- Effective tool for communication
- Real-time notifications
- Search function

Cons:

- Limited file sharing
- No screen sharing
- No video / voice chat

Tool Name: GitHub

Purpose: Allowed to share the files with other team members

Group Rating: ★★★★

Pros:

- Easy to import team's updates/files when not with the team
- Command line utility made for efficient version control

Cons:

- Would sometimes require some group members to force commits, causing the previous commit history to disappear

Tool Name: Trello

Logo:

Purpose: Project management tool

Group Rating: ★★

Pros:

- Effective tool

Cons:

- We did not utilize trello due to continuous development, testing and linking to other components
- Our knowledge gaps disabled the modularization of tasks that Trello is designed for

Tool Name: Mocha

Purpose: Automated testing software

Group Rating: ★★★

Pros:

- Tests javascript components

Cons:

- Hard to learn
- Documentation online not very conclusive

Future Plans:

- Validating using @colorado.edu e-mail addresses only
- Add and delete user classes
- Messaging system
- Extend past Computer Science department
  - Make other departments like Engineering, Business, Architecture, Arts & Sciences, etc.
- "Socialize" our application, adding profile, forums (similar to piazza), etc.

Lessons Learned

DEMO:

https://study-buddies-app.herokuapp.com/