Feed the Pets

CSCI 3308 Final Presentation



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Background

Feed the Pets is a database application that allows users to register a pet, keep track of his or her dietary scheduling, and receive notifications.

Tools Overview

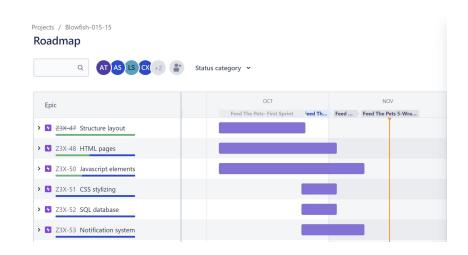
- Features:
 - User registration / login
 - Feeding notifications
 - Organization calendar / history
 - Pet /user profile page
- Tools
 - o Jira, Github, PostgreSQL, VS Code, Docker, NodeJS, Google Calendar API
- Methodologies
 - Agile, Peer Code Reviews, Pair Programming,

Application Tools - Jira Software



- Used as a Project Tracker (Agile)
- Team organization software
 - What was completed
 - What needed to be done
 - Who was completing what task
 - Roadmap (project calendar)



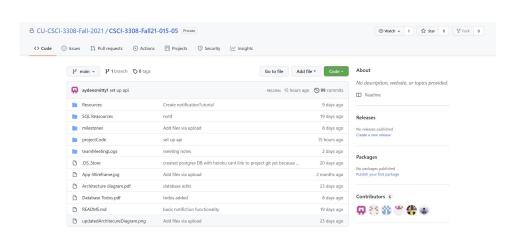


Application Tools - Github



- VCS Repository (Peer code review)
- Used to store project updates
- Includes all of the team's commits
 - Milestones
 - Code
 - Resources





Application Tools - PostgreSQL



- Database management system
- User data
- Pets data
- Linked with familyID



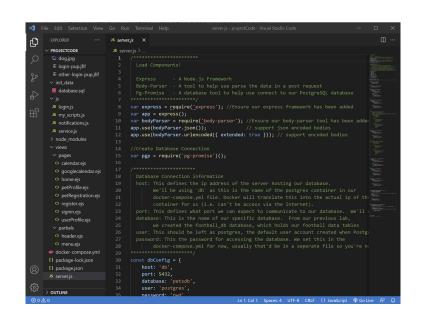
Application Tools - VS Code



- Coding environment (Pair programming)
- Used to create the application
 - o HTML, CSS, ejs, docker, database



Visual Studio Code

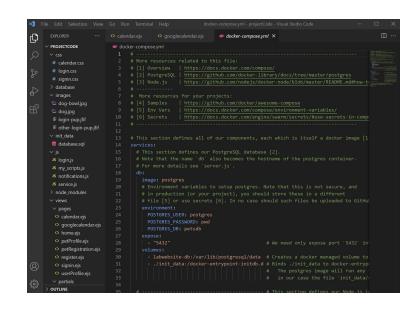


Application Tools - Docker



- Deployment environment
- Stores the SQL database





Application Tools - Node JS



- Framework
- Stores the SQL database and connect the backend to frontend

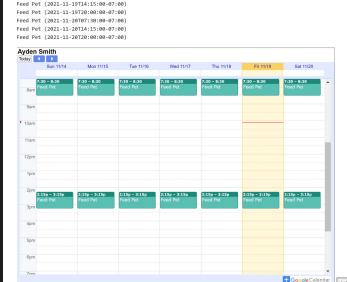


Application Tools - Google Calendar API

Sign Out
Upcoming events:



```
var authorizeButton = document.getElementById('authorize button');
var signoutButton = document.getElementById('signout_button');
function handleClientLoad() (
  apiKey: API KEY.
  discoveryDocs: DISCOVERY DOCS.
  scope: SCOPES
   gapi.auth2.getAuthInstance().isSignedIn.listen(updateSigninStatus);
  updateSigninStatus(gapi.auth2.getAuthInstance().isSignedIn.get());
  signoutButton.onclick = handleSignoutClick;
```

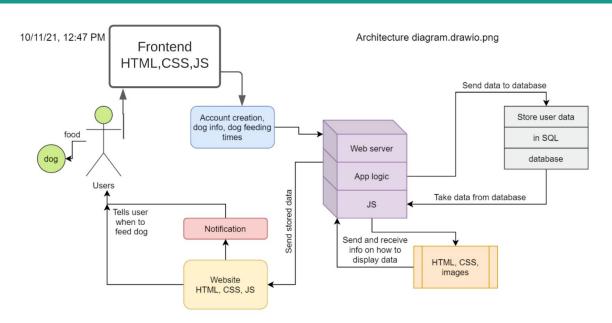


User Authentication

```
app.post('/register/create_account', function(req, res) {
    //Params taken from fourm
   var FirstName = reg.body.firstName;
   var Email = req.body.Email;
   var familyID = req.body.familyID;
   var password = req.body.password;
   //PostgreSOL insert with params from fourm
   var insert = "INSERT INTO users(familyID, familyName, email,pass,numPets) VALUES
   ('"+familyID+"', 'JohnsFamily', '"+Email+"', '"+password+"', 3);"
   //On successful insert take to homepage and store email cred
   db.any(insert)
    .then(function (rows) {
       login = EnteredEmail
       res.render('pages/home',{
            my_title: "Pet Feeder",
    .catch(function (err) {
       console.log('error', err);
       res.render('pages/Home', {
           my_title: 'Pet Feeder',
```

```
app.post('/signup/logintoaccount', function(req, res) {
   var EnteredEmail = req.body.Email;
   var EnteredPassword = reg.body.psw;
   // Ouery to find the correct password for entered email
   var query = "SELECT pass FROM users WHERE email = '" + EnteredEmail + "';";
   // Executes query
   db.any(query)
       .then(function(rows) {
           var TruePass = rows[0].pass
           if (EnteredPassword == TruePass) {
               login = EnteredEmail
               res.render('pages/Home', {
                   my_title: 'Pet Feeder','
           //Else render the signin page so user can try again
           else {
               res.render('pages/signin', {
                   my_title: 'Pet Feeder',
       .catch(function(err) {
           console.log('error', err);
           res.render('pages/signin', {
               my_title: 'Pet Feeder',
```

Architecture Diagram



Challenges

- 1) We had some trouble integrating the postgreSQL database with the frontend
- 2) Implementing the Google Calendar API was a challenge
 - a) Internal website URL wasn't working, had to implement API using quickstart JS
- 3) Making sure login and user info is secure/web security threats
- 4) Implementing push notifications proved to be much harder than initially expected and we ended up having to settle for local notifications for the time being.
 - Resolved the challenges with google calendar API by doing the quickstart JS demo and it appears in our web app now. This enables the user to add notifications instead of using push notifications and is more convenient. We were able to get our database working and registration with user input working

Demo

http://localhost:3001/

In Case of Emergency: https://vimeo.com/647818382/5410b04385

Questions?