# LoChat

By: Group 102-2
6D1A

# Group 102-2 Members

| Front End: | Backend: | Integration: |
|---|---|---|
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# Overview

LoChat is a social  interaction program that allows you to connect and communicate with people around you in one easy to read and understand application. Focused around simplicity, usability, and security, LoChat provides users with one of the easiest ways to casually chat with those in your area.

# Front End

Technologies Used:

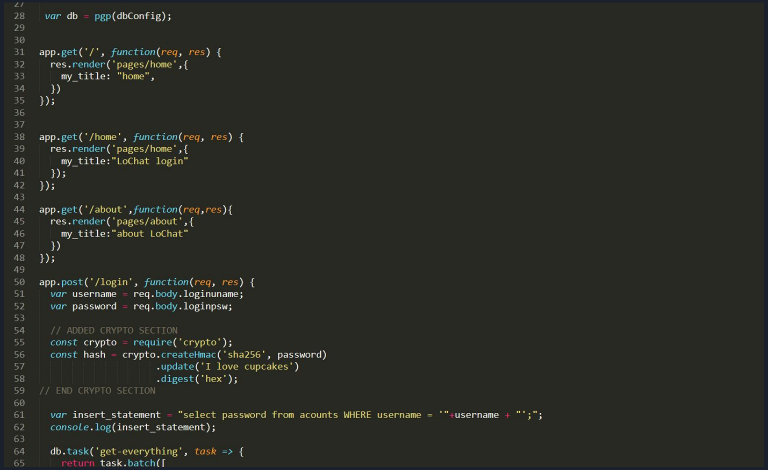
- HTML
- Bootstrap
- CSS
- GIMP (for the basic logo)

Challenges

- Creating Navbar
- Color Scheme across app
- Formatting Bootstrap Cards

# Integration

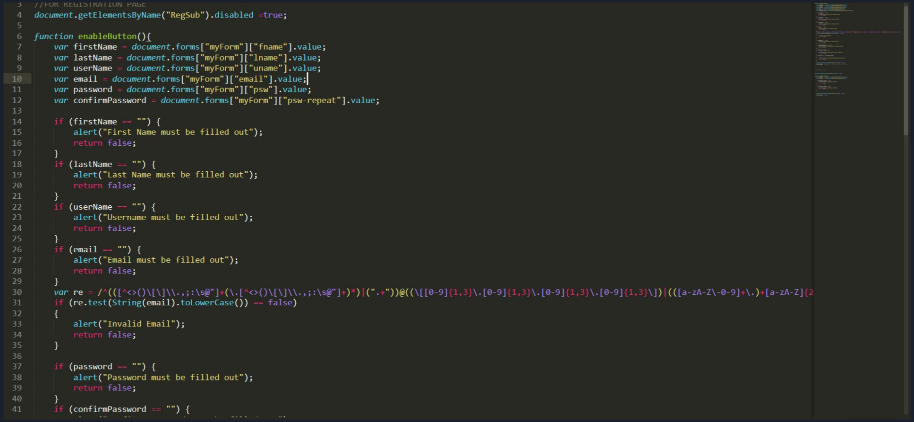
- Technologies used: NodeJS, Express, Signal.io, Postgres, Bootstrap
- Challenges: Signal.io and postgres both use express, issues with ports, hashing did not work with NodeJs



```
 var db = pgp(dbConfig);


app.get('/', function(req, res) {
  res.render('pages/home',{
    my_title: "home",
  })
});


app.get('/home', function(req, res) {
  res.render('pages/home',{
    my_title:"LoChat login"
  });
});

app.get('/about',function(req,res){
  res.render('pages/about',{
    my_title:"about LoChat"
  })
});

app.post('/login', function(req, res) {
  var username = req.body.loginuname;
  var password = req.body.loginpsw;

  // ADDED CRYPTO SECTION
  const crypto = require('crypto');
  const hash = crypto.createHmac('sha256', password)
                     .update('I love cupcakes')
                     .digest('hex');
// END CRYPTO SECTION

  var insert_statement = "select password from acounts WHERE username = '"+username + "';";
  console.log(insert_statement);

  db.task('get-everything', task => {
    return task.batch([
```

# Backend

- Technologies used: JavaScript, SQL database
- Registration validation, password criteria/matching, logging in
- Challenges: pulling values from html form



```
//FOR REGISTRATION PAGE
document.getElementsByName("RegSub").disabled =true;

function enableButton(){
    var firstName = document.forms["myForm"]["fname"].value;
    var lastName = document.forms["myForm"]["lname"].value;
    var userName = document.forms["myForm"]["uname"].value;
    var email = document.forms["myForm"]["email"].value;
    var password = document.forms["myForm"]["psw"].value;
    var confirmPassword = document.forms["myForm"]["psw-repeat"].value;

    if (firstName == "") {
        alert("First Name must be filled out");
        return false;
    }
    if (lastName == "") {
        alert("Last Name must be filled out");
        return false;
    }
    if (userName == "") {
        alert("Username must be filled out");
        return false;
    }
    if (email == "") {
        alert("Email must be filled out");
        return false;
    }
    var re = /^(([^<>()\[\]\\.,;:\s@"]+(\.[^<>()\[\]\\.,;:\s@"]+)*)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-zA-Z]{2
    if (re.test(String(email).toLowerCase()) == false)
    {
        alert("Invalid Email");
        return false;
    }

    if (password == "") {
        alert("Password must be filled out");
        return false;
    }
    if (confirmPassword == "") {
```

# What we learned

- The importance of branches and communication when using Git for version control
  - Some of us used how to push/pull for the first time
- Agile methodology
- Different technologies/languages
- How to run Scrum meetings
- The importance of testing your app
  - How to test(automatically and manually)
- That design plans for a project need to be flexible
  - The location aspect of the app
- Improved Communication and Planning within a group

# Live demo

http://culochat.herokuapp.com