iWash

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Github and link to web-app

https://iwash-cu.herokuapp.com/

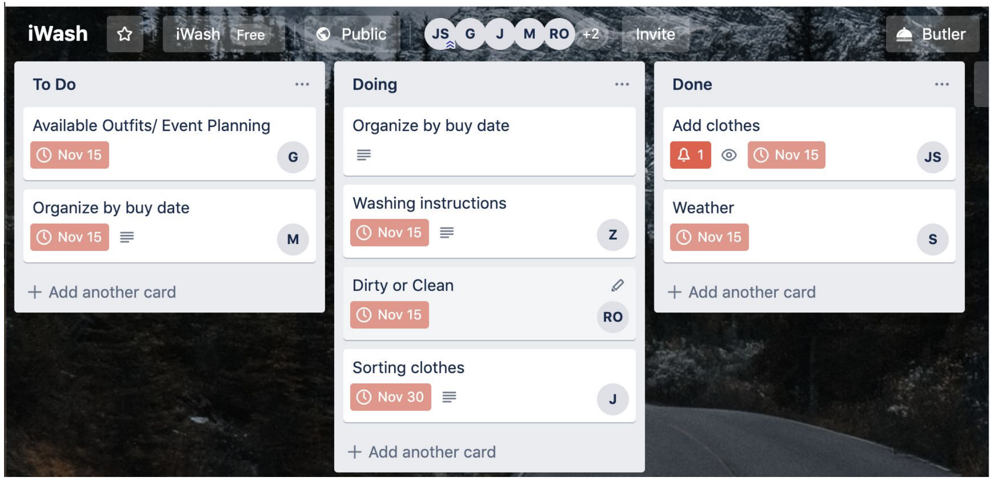
https://github.com/garrettwestCUBoulder/iWash

Project Overview

- Closet organizer
- Digitally upload clothing items
- Save outfits
- Mark them dirty or clean
- Wash instructions
- View clean clothes

Methodology/Tools

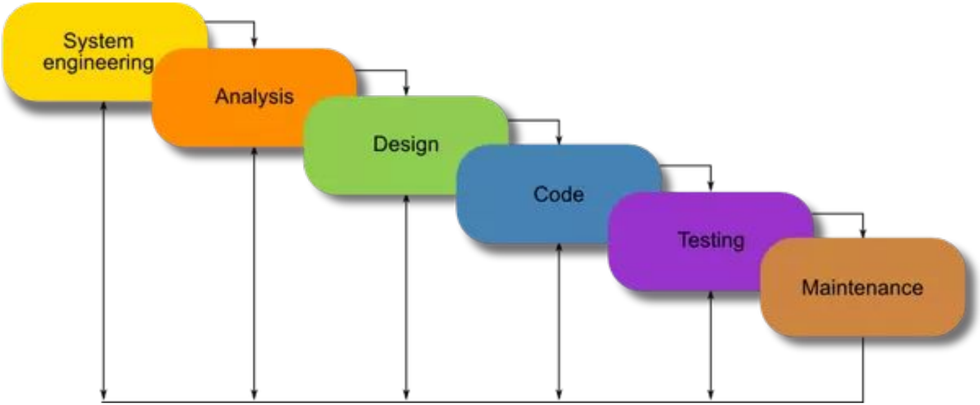
- Methodology:
  - Started as Waterfall
  - Ended up as Agile with continuous refactoring
- Tools:
  - Project tracker: Trello
  - VCS repository: Github
  - Database: MySQL
  - Deployment Environment: Heroku
  - Framework: Node.js



To Do
- Available Outfits/ Event Planning — Nov 15 — G
- Organize by buy date — Nov 15 — M
- + Add another card

Doing
- Organize by buy date
- Washing instructions — Nov 15 — Z
- Dirty or Clean — Nov 15 — RO
- Sorting clothes — Nov 30 — J
- + Add another card

Done
- Add clothes — 1 — Nov 15 — JS
- Weather — Nov 15 — S
- + Add another card



Front End

- Html
- PUG
- Bootstrap
- CSS

Weather API

We tried two different API for weather forecast.

- Open Weather Map-Current weather data
- Dark Sky Weather

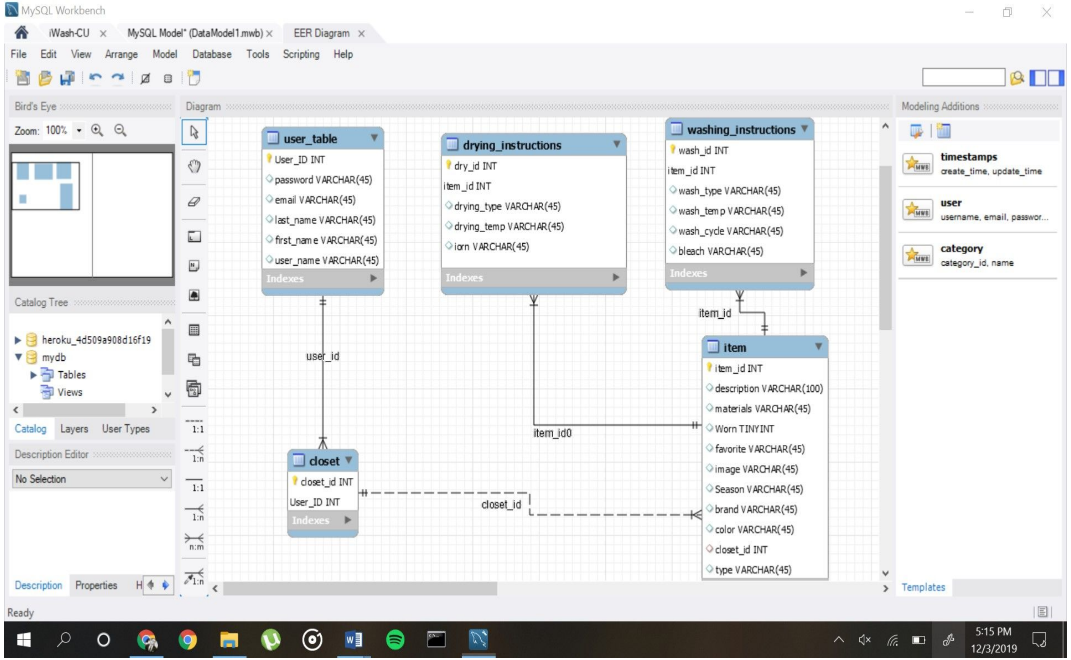
We chose the Dark Sky Weather API because it offers a six day forecast. We believe that a long-term forecast is important to help users arrange their dressing or washing plan.

Open Weather Map

Powered by Dark Sky

Back End

- Started with Microsoft Azure and PostgreSQL
- Service Expired
  - Switched to MySQL
- MySQL database hosted on Heroku
- Used MySQL Workbench to create database
- Room to filter based on more criteria



user_table
- User_ID INT
- password VARCHAR(45)
- email VARCHAR(45)
- last_name VARCHAR(45)
- first_name VARCHAR(45)
- user_name VARCHAR(45)

drying_instructions
- dry_id INT
- item_id INT
- drying_type VARCHAR(45)
- drying_temp VARCHAR(45)
- iorn VARCHAR(45)

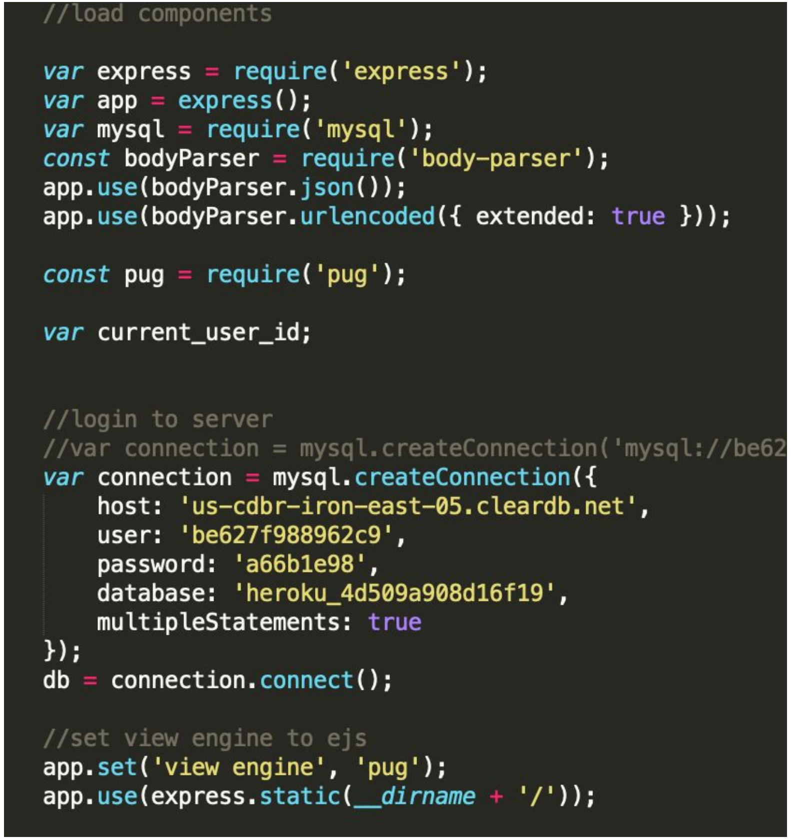
washing_instructions
- wash_id INT
- item_id INT
- wash_type VARCHAR(45)
- wash_temp VARCHAR(45)
- wash_cycle VARCHAR(45)
- bleach VARCHAR(45)

item
- item_id INT
- description VARCHAR(100)
- materials VARCHAR(45)
- Worn TINYINT
- favorite VARCHAR(45)
- image VARCHAR(45)
- Season VARCHAR(45)
- brand VARCHAR(45)
- color VARCHAR(45)
- closet_id INT
- type VARCHAR(45)

closet
- closet_id INT
- User_ID INT

Integration Layer

- Node.js main tool
    - Express framework
- Queries MySQL database
- Sends data to pug front-end
- Post and Get method included for:
    - Add/Delete item
    - View Closet
    - Available Loads
    - Login/Registration
    - Image upload and display



```
//load components

var express = require('express');
var app = express();
var mysql = require('mysql');
const bodyParser = require('body-parser');
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: true }));

const pug = require('pug');

var current_user_id;


//login to server
//var connection = mysql.createConnection('mysql://be62
var connection = mysql.createConnection({
    host: 'us-cdbr-iron-east-05.cleardb.net',
    user: 'be627f988962c9',
    password: 'a66b1e98',
    database: 'heroku_4d509a908d16f19',
    multipleStatements: true
});
db = connection.connect();

//set view engine to ejs
app.set('view engine', 'pug');
app.use(express.static(__dirname + '/'));
```

Cloud Deployment

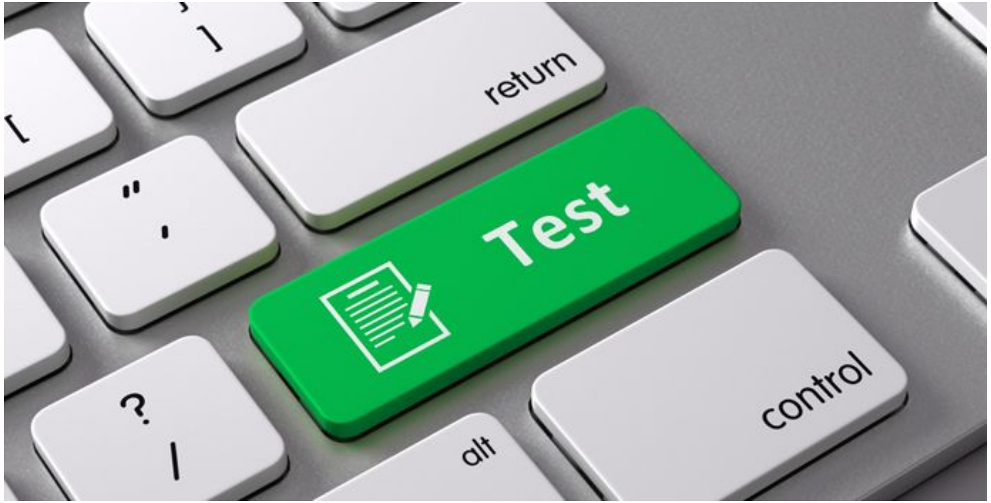
- Used Heroku
- Build using Nodejs

Challenges:

- Started with AZURE Subscription expired
- Less instructions on the internet in comparison to heroku
- Deploying html and pug requires different buildpacks
- Had to have the right modules downloaded
- Connecting to database was difficult due to not setting user and password for ClearDB

Testing

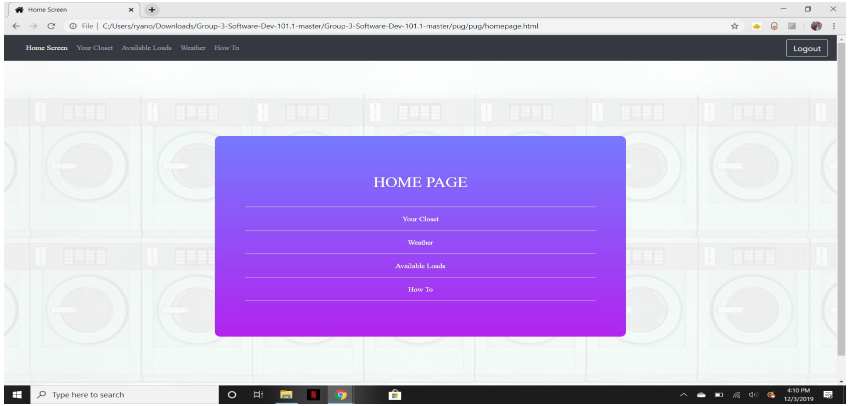
- Most testing was done as a group
- If we wanted to implement a new fix we rebuilt the app
- Should have tested individually
- Created later complications due to synchronization errors



Challenges

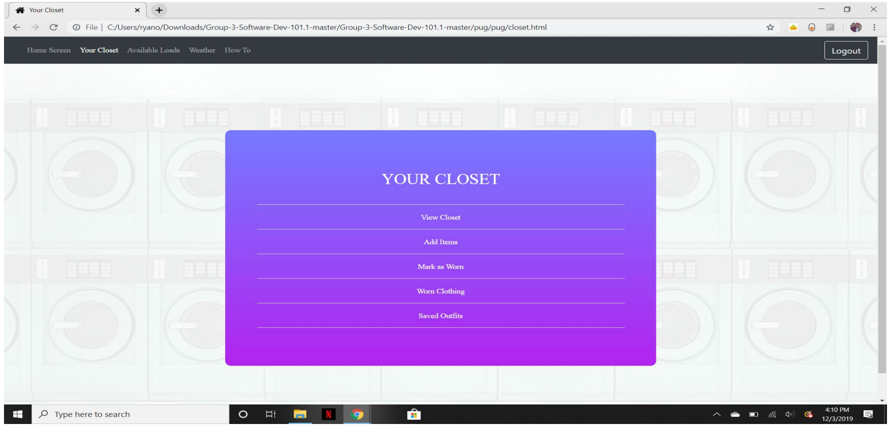
- Challenges
  - More difficult to schedule meeting times
  - Harder to get everyone on the same page
  - Often not enough work to keep everyone involved
  - Finding information on AZURE
  - Postgres to Mysql
  - Image upload
- How we overcame
  - Partner programming
  - Lot’s of communication
  - Meetings at least once a week

Demo


Home Screen
File | C:/Users/ryano/Downloads/Group-3-Software-Dev-101.1-master/Group-3-Software-Dev-101.1-master/pug/pug/homepage.html
Home Screen
Your Closet
Available Loads
Weather
How To
Logout
Type here to search
4:10 PM
12/3/2019

HOME PAGE

- Your Closet
- Weather
- Available Loads
- How To


Your Closet
File | C:/Users/ryano/Downloads/Group-3-Software-Dev-101.1-master/Group-3-Software-Dev-101.1-master/pug/pug/closet.html
Home Screen
Your Closet
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How To
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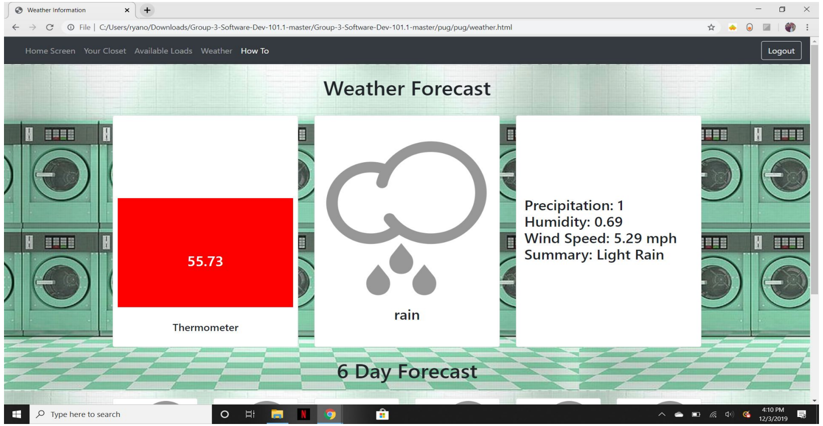
YOUR CLOSET

- View Closet
- Add Items
- Mark as Worn
- Worn Clothing
- Saved Outfits


Weather Information
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Weather Forecast

55.73

Thermometer

rain

Precipitation: 1
Humidity: 0.69
Wind Speed: 5.29 mph
Summary: Light Rain

6 Day Forecast