## Matthew Zeman 355 Project 2

- 1) Grey Paper
  - a) Setting up mongodb and using mongoose for schemas
    - i) Challenge I needed a way to have a set schema for each form being uploaded, then I learned about mongoose

```
//connect to mongodb with mongoose
mongoose.connect('mongodb://localhost:27017/login-app')
```

- b) Keeping the user logged in with cookies
  - i) Challenge figuring out how to set up browser cookies and match them to log in the user and keep them logged in

```
//To login users
app.post('/api/login', async(req, res) => {
    const {username, password} = req.body
    const user = await User.findOne({username}).lean()
    if(!user){
        return res.json({ status: 'error', error: 'Invalid username/password'})
    //means username and password combo is successful
    if(await bcrypt.compare(password, user.password)){
        const userId = user._id
        const num = Math.floor(Math.random() * 999999999)
        await User.updateOne(
            { _id: userId },
                $set: { ID: num}
        res.cookie('ID', num)
        return res.json({ status: 'ok', data: "good"})
    res.json({ status: 'error', error: 'Invalid username/password'})
```

- c) Set up image storage in mongodb
  - Challenge figuring out how image storage worked because we have to somehow save it in a location that's not the database

d) Have individual pages and links for every item

ii)

ii)

 i) Challenge - wasn't sure how im able to make individual pages for one static page

```
app.get('/item/:itemId', async (req, res) => {
    const name = await getJustUserNameFromCookie(req);

const itemId = req.params.itemId;
    const item = await Recipe.findOne({ _id: itemId }).lean();
    const steps = item.steps.split('<br>').filter(step => step.trim() !== '');

res.render('items', {user: name, item: item, steps: steps});

});

app.get('/edit/:itemId', checkUser, checkIfCurrentUser, async (req, res) => {
    const name = await getJustUserNameFromCookie(req);

const itemId = req.params.itemId;
    const item = await Recipe.findOne({ _id: itemId }).lean();
    const steps = item.steps.split('<br>').filter(step => step.trim() !== '');

res.render('edit', {user: name, item: item, steps: steps});

});
```

- e) Editing and deleting Recipes
  - i) Challenge The user not only had to be logged in, but they had to own the recipe they are trying to edit

```
async function checkIfCurrentUser(req, res, next) {
    try {
        let myCookieValue = req.cookies.ID;
        let user = await User.findOne({ ID: myCookieValue }).lean();
        let recipes = await Recipe.find({ username: user.username }).lea
        const itemId = req.params.itemId;
        let itemFound = false;
        for (let recipe of recipes) {
            if (itemId === recipe._id.toHexString()) {
                itemFound = true;
                break;
        if (itemFound) {
            next();
        } else {
            next();
            res.redirect("/myRecipes")
    } catch (error) {
        console.error(error);
        res.status(500).send("Internal Server Error");
```

f) Using ejs rendering every recipe depending on meal type

ii)

ii)

i) Challenge - Using ejs javascript in the HTML format

- g) Getting ejs information into javascript
  - i) Challenge This one took me a little bit, I'm not allowed to use ejs format in javascript so getting the information in their to manipulate it took a little figuring out

h) Changing images in index page

ii)

 i) Challenge - problem here was to have two images on top of each other but also keep the rest of the page looking the same

- i) When uploading and removing steps from the recipe, it has step numbers that are dynamic
  - i) Challenge The problem here was every time you deleted a recipe it wouldn't change the step it was, so I had to go through every step and change it

```
function deleteStep(clickedID){
    var div = document.getElementById('list' + clickedID);

    div.remove();

    // Update the numbering of the remaining elements
    var stepLists = document.querySelectorAll('.stepList');

    for (var i = 0; i < stepLists.length; i++) {
        var stepText = stepLists[i].querySelector('.stepText p');
        var deleteButton = stepLists[i].querySelector('.deleteButton button');
        var newIndex = i + 1;

        stepText.textContent = newIndex + ") " + stepText.textContent.split(') ')[1];

        // Update IDs
        stepLists[i].id = 'list' + newIndex;
        stepText.parentNode.id = 'step' + newIndex;
        deleteButton.parentNode.id = 'list' + newIndex;

        // Update onclick attribute
        deleteButton.setAttribute("onclick", "deleteStep('" + newIndex + "')");
    }
}</pre>
```

- When on your profile page, you can search for the recipe by name
  - i) Challenge figuring out how to change the page to only show what you want it to show

```
function Search() {
   // Declare variables
   var input, filter, ul, li, div, i;
   input = document.getElementById("mySearch");
   filter = input.value.toUpperCase();
   ul = document.getElementById("myMenu");
   li = ul.getElementsByTagName("li");
   let searchLength = document.getElementById("searchLength");
   let num = 0
   for (i = 0; i < li.length; i++) {
     div = li[i].getElementsByTagName("div")[0];
     if (div.innerHTML.toUpperCase().indexOf(filter) > -1) {
       li[i].style.display = "";
       num++
     } else {
       li[i].style.display = "none";
 searchLength.innerText = num
```

ii)