



# MicroManage

Brooke Stevens, Chad Wireman, Chris Beggs, Ian Sexton, Jacob Carlson, & Rahul Depa

Team Name: Sweet Victory



# What is MicroManage? Who is our user base?

**MicroManage (μ)** is a scheduling service which combines an intuitive and minimalist user interface to a database, allowing users to plan out their days, weeks, months, and years.

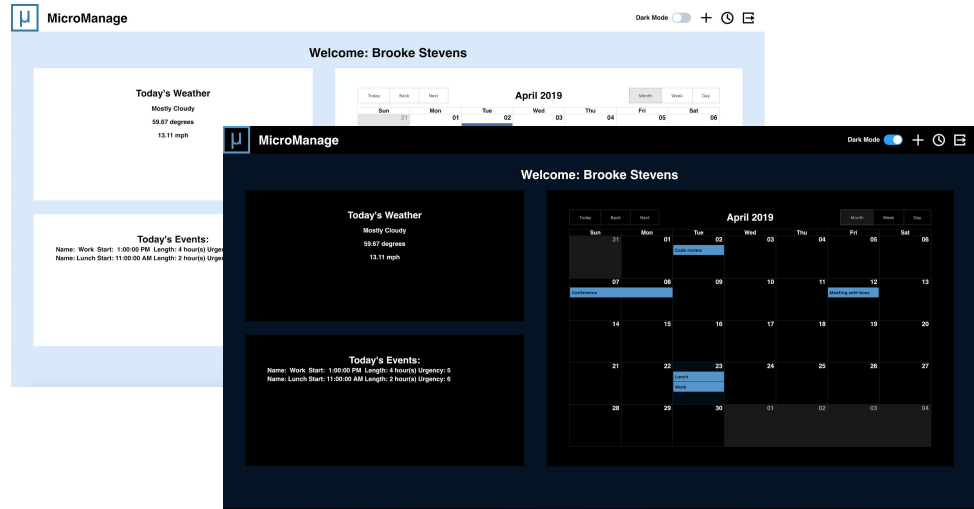
## Features at a Glance:

- Add, edit, and delete events dynamically
- Current weather reports
- Light/Dark Mode

# Design & Creativity + ⌚ 🗒

Focus:

- Clean
- Friendly & Accessible
- Professional
- Unique

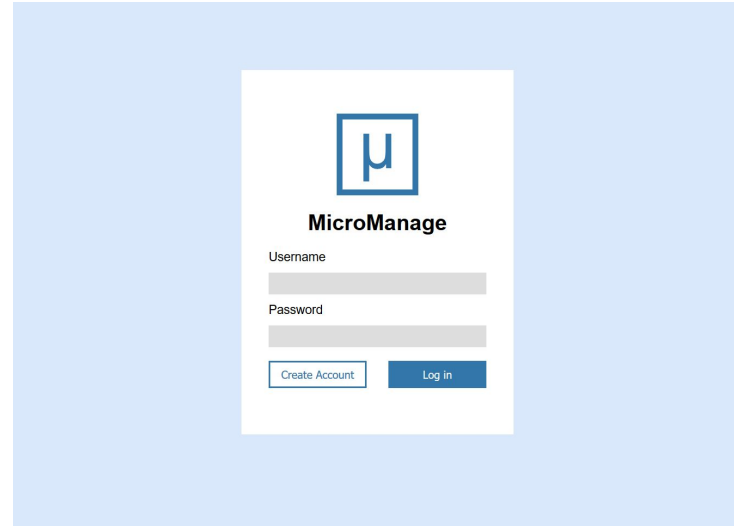




# Front-End Features



- Add, edit, and delete events
- Login and registration page
- Email reminders
- Dark Sky API Panel
- Dark Mode





# Integration Features



- Node.js for server side JS
- Express framework can create
  - Routes
  - REST API
- API's
  - written and executed with Pg-Promise
- Data transfer
  - JSON between API and React.js

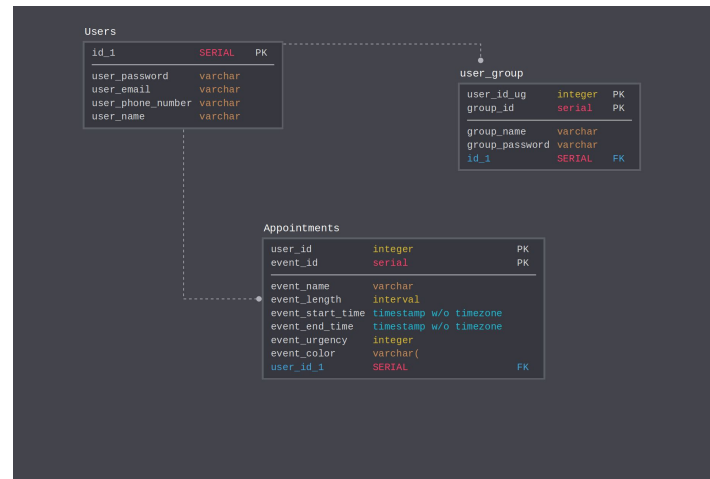
```
task.any(query_two),
task.any('SELECT user.name FROM USERS WHERE id = ${current_user_id}'),
task.any('SELECT user_email FROM USERS WHERE id = ${current_user_id}')
});
}
}
.then(data => {
  //success
  res.send({
    data: data[0],
    todayEvents: data[1],
    name: data[2],
    email: data[3]
  });
  console.log("Sent events, success");
})
.catch(error => {
  //error
  console.log(error);
});
});

//Creating a new User Account
app.post('/api/check-user',(req,res) => {
  //Checks if user name or email is in db
  //Returns true or false
  console.log("Checking email..");
  var name = req.body.Username;
  var email = req.body.Email;
  var password = req.body.Password;
  console.log('Email:' + email );

  var query_statement = 'SELECT EXISTS(SELECT 1 FROM users WHERE user_email = '${email}')';
  var query_statement_two = 'INSERT INTO users(user_name , user_password,
  user_email) VALUES( '${name}', '${password}', '${email}')';
  var query_statement_three = 'SELECT id FROM users WHERE user_email = '${email}';
  db.one(query_statement)
  .then( data => {
    console.log("Database queried successfully in check user...");
    if(!data.exists){
      db.none(query_statement_two)
      .then( () => {
        db.one(query_statement_three)
        .then(data => {
          console.log("New User ID: " + data.id);
          current_user_id = data.id;
```

# Back-end Features

- Linked via primary keys and foreign keys
  - All user appointments in a single table
  - Can uniquely access with their ID numbers
- Unique ID
- Appointments table
  - contains every users events
  - each row contains the unique user ID
  - Similar to user group table.





# Challenges (front-end)

1. Complications with progress bar
2. Express and React both used the same port

Solutions:

1. Replaced progress bar with weather component
2. Proxy requests from 3000 to 3001



## Challenges (integration & back-end)

1. Formatting data passing between database, Express API's, and front end
2. With vanilla Node/Express, changing and saving the js files means you must restart the npm instance

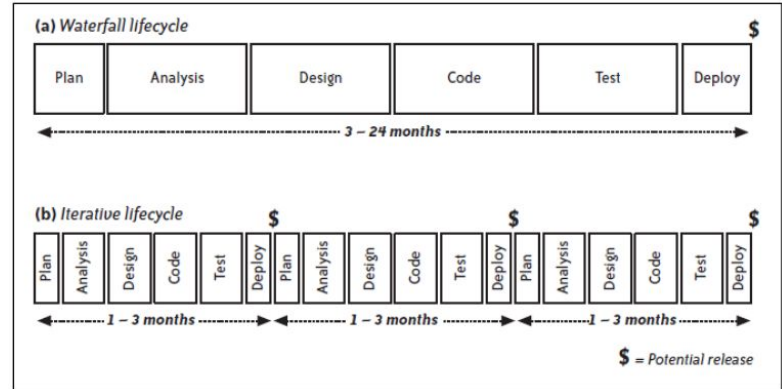
### Solutions:

1. Including functions in the Express Js file that changed the date format so the Js on the front end could read it
2. Used Nodemon, a Node.js package that automatically restarts the server when you save the Js file



# Project Management

- Meetings took place regularly
  - Tuesday and Thursday at 5:00 pm
- Began with waterfall, switched to AGILE
- Communication
  - Slack
  - Trello
  - GitHub





# Software/Tools Used

## Front-End

- **HTML/CSS:** 3/5 - unnecessary work required for simple tasks
- **JavaScript:** 5/5 - easy to use
- **React.js:** 4/5 - good for dynamic sites bad for multi-page sites
- **Express.js:** 4/5 - easy to learn and works well with other Node packages

## Back-End

- **PSQL:** 5/5 - Easy to learn and understand, great for the purposes of our app
- **Pg-Promise:** 4/5 - easy syntax, great documentation
- **Dark Sky API:** 4/5 - easy to use, not accurate
- **Mailjet:** 4/5 - easy to use, promise based



# Live Demo