



# Box Project

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Team Repo: <https://github.com/LaunchCodeLiftoffProjects/jane-group2>

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# Purpose



## Problem

- ❖ How much time have you spent looking for your belongings from a previous move, or in your storage?
- ❖ How often have you put something of yours away and forgotten where it is?

## Solution

- ❖ With Box Project/Piece of Mind that's all taken care of
- ❖ Upon creating an account with us, you can add boxes in our app and update the contents
- ❖ We keep track of everything that's in your boxes for you so you can stay nice and organized
- ❖ We automatically color-code your boxes and generate QR codes for you to print out



# Tech Stack: Core

## React

We wanted to take a step beyond using a template engine by creating a full-stack application.

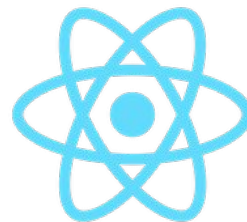
React was our go-to pick as the most widely used front-end. It's easy to learn and work with.

## Java & Spring Boot

Java was utilized for backend with Spring Boot.

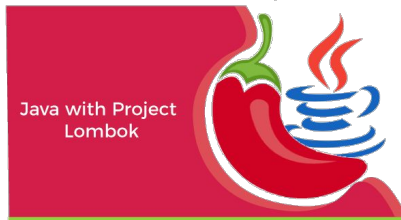
## MySQL

While there are many DB solutions, we went with MySQL for its straightforwardness.



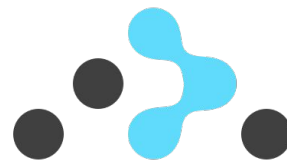


# Tech Stack: Libraries



## React Router

We wanted our pages to feel quick and responsive even when navigating between different parts of our app. React Router enabled us to do so without compromising in that regard.



# REACT ROUTER

## Bootstrap

It saved us a lot of time with streamlining the styling of our application.

The built-in components look great out-of-the-box and allowed us to focus on what's important.

## Lombok

A useful library for Java that reduces the need for boilerplate code through auto-generation.

# Features

- ❖ Users
- ❖ Box/Item/Category CRUD
- ❖ Search
- ❖ QR Codes With Print Option
- ❖ Color Coded Boxes

**PIECE OF MIND** Login Register

### Login

Username

Password

Don't already have an account? [Register](#)

[Back to home page](#)

**PIECE OF MIND** dhga What's In The Boxes? Logout

garage

### Items

Name	Quantity
tools	x1
sled	x1
bike	x1

**PIECE OF MIND** dhga What's In The Boxes? Logout

### Search Results

We found 1 matches for 'sled'

garage

**PIECE OF MIND** dhga What's In The Boxes? Logout

### Categories

kitchen

bathroom

gym

garage

living room

basement

play room

office

bed room

pet room

dining room

attic



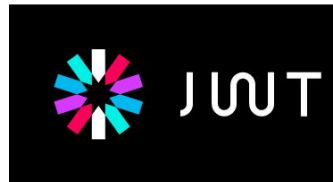
# Users

## Summary

- ❖ Users are able to register an account and login to our app
- ❖ Users cannot visit certain pages without being authorized
- ❖ Users are persisted in our database, and own the boxes they created

## What I Used

- ❖ Spring Security
- ❖ JSON Web Token
- ❖ Formik
- ❖ Form Validation w/ Yup



**FORMIK**

# Box/Item/Category CRUD

## Summary

- ❖ Users can add, display, edit, and delete boxes
- ❖ Users can filter and display boxes by category
- ❖ Users can add and remove items from boxes

## What I Used

- ❖ Spring REST API
- ❖ Hibernate
- ❖ MySQL

Create  
Read  
Update  
Delete



# Search



## Summary

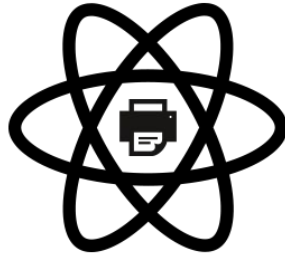
- ❖ Users can find their belongings quickly
- ❖ Assists in figuring out which boxes to organize
- ❖ Saves time when unloading boxes

## What I Used

- ❖ Pattern Matching



# QR Codes

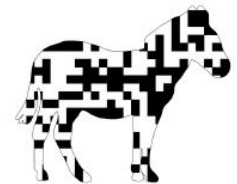
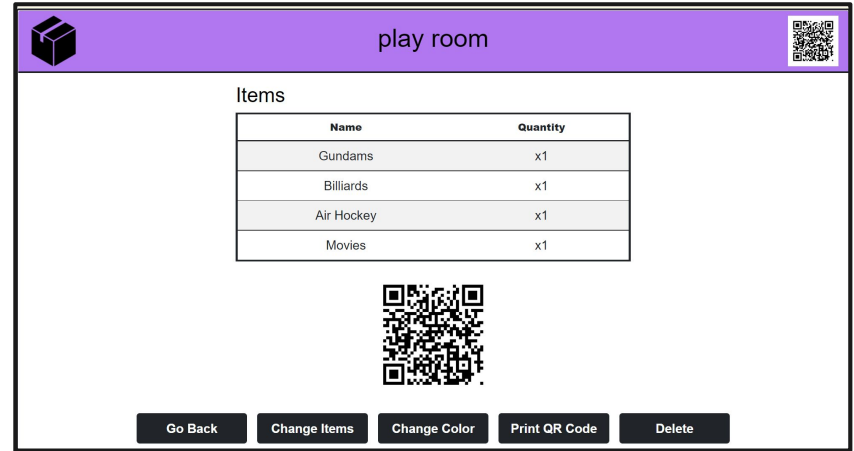


## Summary

- ❖ Users can print QR code for labeling
- ❖ Assists in viewing what is inside boxes

## What I Used

- ❖ React To Print
- ❖ ZXing



ZXING















# Color-coded Boxes

## Summary

- ❖ Users can randomize the colors of their boxes
- ❖ Assists in distinguishing boxes from each other
- ❖ Visually pleasing for users

## What I Used

- ❖ Random Number Generation

 kitchen	 living room	 bed room
 bathroom	 basement	 pet room
 gym	 play room	 dining room
 garage	 office	 attic



**Demo**

# What I Learned

- ❖ Agile & Scrum
- ❖ React
- ❖ React Libraries (Router, Formik, RXJS)
- ❖ Building a Full-Stack Application
- ❖ Spring Security & JSON Web Token



## What's Next

- ❖ Mobile application
- ❖ UX/UI improvements
- ❖ User profiles
- ❖ View box contents through a app or webpage upon scanning QR Code
- ❖ More form validation
- ❖ More details on box-display route to better help users find what they need

