

# The Burrow

The Egg on GitHub

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<https://github.com/LaunchCodeLiftoffProjects/burrow-web-app>

# Description

Burrow is a home information planner that allows users to find home maintenance information in an easy to access application.

Users are able to create their own properties, add different devices by room, and set reminders for when replacements are needed. Burrow makes it easy for users to find replacement information while away from the house or at the store, where the required information might not be as easy to find.



# Features

- **User login:** Users are able to create accounts and log into the application.
- **Create/Edit Property:** Users are able to create a property to track the information.
- **Create/Edit Room:** Users are able to create or edit a room within a house.
- **Create/Edit/Delete Device:** Users are able to create and manage devices within rooms.
- **Create/Edit/Delete Component:** Users are able to create and manage components, such as batteries, light bulbs, and filters. Component information will include the device it is matched to, the type, and installation date for each component.
- **View All:** Users are able to view all components within a house and sort by any column in the table.
- **Notification:** When a component needs to be replaced, a notification will show on the user home page.
- **Search:** Users are able to search using a general keyword search as well as a more specific search that limits the search parameters.



# Planning - User Stories

Users can create an account. Burrow provides a safe login page using hashed passwords that will keep my information safe.

Users can see when to replace a component. Burrow has a convenient sort table to easily see what is needed next.

Users can receive notifications. Burrow has notifications to alert when it is time for a replacement.



# Planning - Database

The **User** repository holds an ID, name, and hashed password. This allows the user to safely create an account, log in, and log out.

Repositories for **Property**, **Room**, **Device** and **Component** store `user_id`, so information is specific to who creates it. These also hold a cascading relationship to each other to ensure all child entities are removed if a parent entity is deleted.

The **Notification** repository directly connects to the `component_id`, so that every component will trigger a notification when a replacement is due. This is calculated by method `needsToBeReplaced`, in which the amount of days between replacement is added to the replaced date.



# Technology Stack

- Language - Java, JavaScript, HTML, CSS
- Framework - Spring, Bootstrap
- Template engine - Thymeleaf
- Database engine - MySQL



# Demo

Register an account

Username

Password

Verify Password

Register

Already registered? [Back to login.](#)

Friendly welcome screen

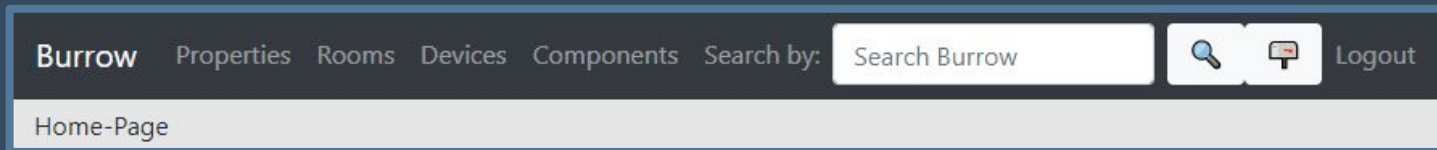
Hello DanHart!

View Properties



# Demo

## Navigation Bar



## Breadcrumbs





# Demo

## Sort Components

### Components

Show  entries

Search:

Component	Qty	Description	Device	Room	Property
<a href="#">Light Bulb</a>	1	LED E26	<a href="#">Lamp</a>	<a href="#">Living Room</a>	<a href="#">Home</a>

Showing 1 to 1 of 1 entries

[Previous](#) [1](#) [Next](#)

Add Components



# Demo

## Search Page

**Search by:**

☒ All ☐ Component ☐ Property ☐ Device ☐ Room

Keyword:

Search



# What I Learned

- The importance of commit and push. Especially when coding as a team. Having a backup when something breaks is priceless.
- How to limit data access based on a user login and making sure the limit covers all aspects of the data creation, editing, and deleting.
- Discussing and filtering ideas so as to avoid scope creep and keep the project manageable within the available resources.



# What's Next

- Extend the search to include the descriptions
- Make the installation and notifications optional as some users will not need or want notifications for some components
- Allow the user to create a csv export of their components
- Add a background image and update colors/look of the application
- Launch the application

