

WRAAM

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Description

WRAAM (Work Request and Asset Manager) allows administrator created users to view, create, and edit the status of work requests. Designed for a small education or business campus, it also allows for linking work requests to buildings and filtering through work requests.



Features

- Save and Edit Work Requests
- Search Work Requests
- User login
- Add Users
- View Buildings



Planning - User Stories

- User should be able to create and edit the status of work requests so that other users can view what work needs to be done and get updated information.
- Users will be able to view all work requests and filter them to find the work request that they are looking for.
- Users can login once an administrator has created an account for them. Nothing should be accessible without first logging in.
- Administrators should be able to add new users as more employees are hired, this way they have control over who can access the information. This means that a user should also be able to change their password, since the original will be initialized by the administrator. Later adding a delete user, or deactivate user, option would be helpful.
- Users will be able to view the list of buildings that are in the database, these buildings cannot be edited by users. Only an administrator can add new buildings.



Planning - Database

There are only 3 tables in use at this point in project development.

There is a building table that hold data that an administrator adds in the “Add Building” feature.

There is a work request table, which has a foreign key in each row when a work request is added. This is because a work request needs to be attributed to a building.

There is a user table. This holds usernames and hashed passwords for both admins and users, with a column identifying users and admins.



Technology Stack

- Java 8
- Spring Boot
- Thymeleaf
- MySQL
- Bootstrap
- Javascript



Demo



What I Learned

- I used javascript in this project which I had no experience with before, it was a great learning experience.
- Creating users that could be identified as normal users or admins was a great way to learn more about how the authentication and sessions worked behind the scenes.
- Using different tools to allow for interesting features was complicated but helpful. An example of this is using Select2 and javascript to search in a dropdown menu.



What's Next

- My next steps if working on this project in the future would be to add a dashboard for the user. At first this would be a set dashboard with graphs already decided. Next would be making these graphs adaptable for the users desires.

