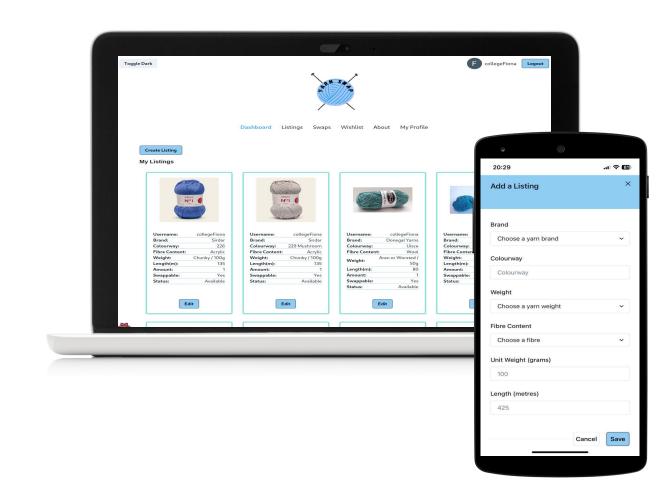


Progressive Web App Community Swap Platform

Created by Fiona Waters Student No: 20095357



Introduction

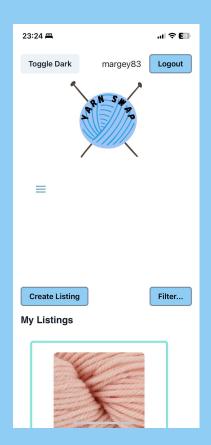
- Progressive Web App Installable.
- Allows community members to exchange/swap yarn.
- Front end React, Vite.js, ChakraUI.
- Back end Golang, Gin.
- Storage Firebase
- Deployed to Red Hat Openshift.

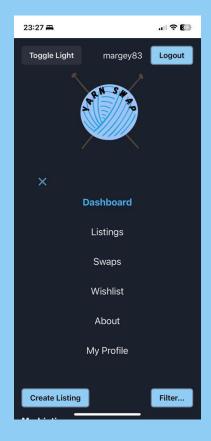


Demonstration

Demonstration - Installed on IPhone - Responsive Design







Background

Problem: Too much yarn, but not the right yarn!

Solution: Yarn Swap

Project Goal: To create a progressive web application with CI/CD Pipeline.



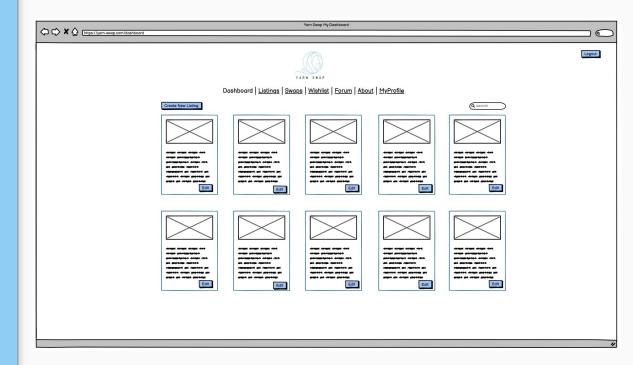
Research & Analysis

- Tools and Technologies
 - React/ChakraUl
 - Golang/Gin
 - Quay/GitHub Actions/Docker/Red Hat OpenShift
 - Firebase
- Market Analysis
- Feature Analysis



Design

- Wireframes using Balsamiq
- Splash of colour
- Logo change









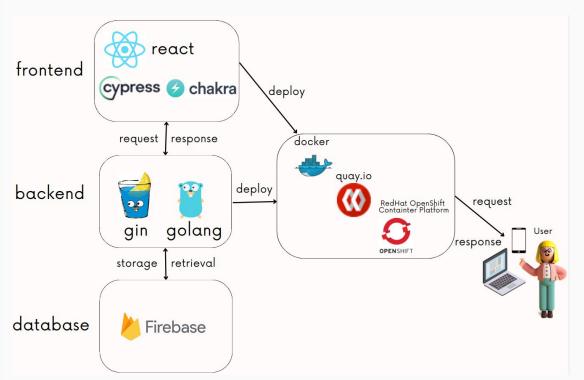
Planning

- Agile Methodology
- Sprints
- Jira



Implementation

System Architecture Diagram





Implementation

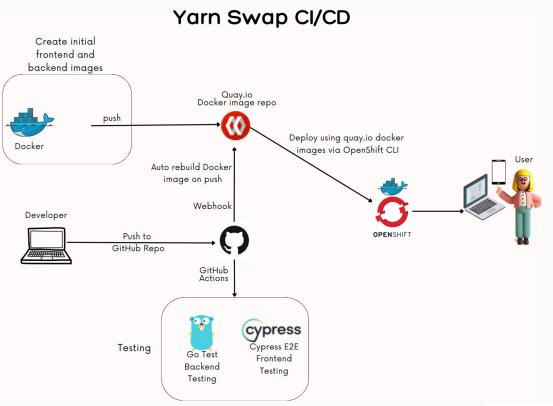
Features

- Register/Login
- CRUD Listings
- Tokens
- Swap, Chat
- Search/Filter
- My Profile
- About Guidelines/FAQs
- Admin



Implementation

CI/CE





Future Features

- Wishlist, Projects
- Forum
- Enhanced User Profile
- Notifications
- Enhanced Token functionality
- User Ratings
- Enhanced PWA



Problems & Solutions

- Testing
 - \circ TDD
- CI/CD Pipeline
 - Alternative Technologies
- Firebase Credentials/OpenShift Cluster
 - Volume



Learning

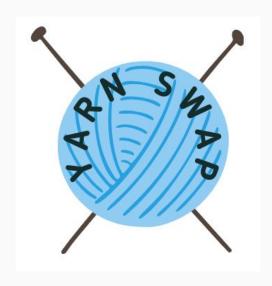
Personal

- Backend Development
- Planning
- Time
- Explanation

Technical

- Webhooks
- GitHub Actions
- React
- Cypress
- Wireframes
- OpenShift Deployment





Thank you for listening...

Questions?

Give it a try

User: bart@simpson.com

Password: password