

# Sneekr

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# Description

Sneekr is an ecommerce app devoted exclusively to footwear, and enables users to browse from a selection of sandals, shoes, boots and more to find and buy the best fit.



# Features

- List of available products
- Shopping cart that allows users to store and modify their selection
- Checkout form
- Order lookup
- User accounts
- Wish lists



# Planning - User Stories

1. A user can visit the site, view available footwear, and then place any products of interest into a dynamic shopping cart.
2. Checkout process allows a user to finalize their order with their shipping information, and upon successful completion will give the user a confirmation with an order number
3. Should the need arise, the user can then return to the site and look up their order with its identifying number.



# Planning - Database

- We used an in-memory SQL database
- Only needed a basic table for products
- Decided early on that we would not store a given shopping cart in the DB
- More complex join tables required for relating orders with the products they contain, and user accounts with their given roles



# Technology Stack

- Java, Spring Boot,
- JavaScript,
- HTML, CSS,
- Angular, TypeScript,
- H2 Database, JPA
- Bootstrap,
- Spring Security, JWT Tokens



# Demo



# What I Learned

- Basics of REST API endpoints
- Additional Angular functionality
- How to connect a frontend framework (Angular) with backend endpoints (Java MVC, Spring Boot)
- Utilizing session information to control the instantiation of models, in this case the shopping cart
- Styling with Bootstrap and CSS
- Utilizing Spring Security Framework and JWT Tokens for user authorization and authentication.





# What's Next

- Input validation
- Product search
- Further utilization of Bootstrap to style UI
- Learn about pagination
  - Ideally users will need a way to access more products than will fit on one page
- Additional Account-based Privileges
  - Ex: Only merchant accounts can post new products for sale; only admin accounts can approve new postings
    - Will provide further meaning to user accounts
    - Good opportunity to utilize Spring Boot and Angular in greater depth to implement new user interfaces and infrastructure for submitting and approving product postings
- Add mock payment processing beyond simple text form entry
  - Payment at the heart of commerce
  - Opportunity to explore payment processing API and general implementation

