E-commerce Application

Overview

This is a full-featured e-commerce web application built with React, Redux Toolkit, React Bootstrap, Formik, and Yup for form validation and state management.

Features

- User Authentication (Login/Register)
- Product Listing with Search and Category Filtering
- Shopping Cart Functionality
- Responsive Design
- State Persistence

Authentication

- User registration and login
- Form validation using Yup
- Redux-based authentication state management

Product Management

- Dynamic product listing
- Search functionality
- Category filtering
- Add to cart feature

Cart Functionality

- Add/Remove products
- Quantity adjustment
- Total price calculation
- Clear cart option

Installation Steps

1. Clone the repository

git clone https://github.com/YomalTJ/E-Commerce-Store.git

2. Install dependencies

npm install

3. Start the development server

npm run dev

Technology Stack

- React
- Redux Toolkit
- React Bootstrap
- Formik
- Yup
- Redux Persist

Configuration

- Authentication state managed in `authSlice.js`
- Product state in `productSlice.js`
- Cart state in `cartSlice.js`

Key Design Decisions

- Used Redux Toolkit for simplified state management
- Implemented form validation with Yup
- Used Redux Persist for maintaining user session and cart state
- Responsive design with React Bootstrap

Available Scripts

- `npm run dev`: Start development server
- `npm run build`: Create production build
- `npm run preview`: Preview production build