

Web app for reselling any kind of items (goods, products):

User Interface (UI):

Homepage: Displays available item ads, and the search bar. Links to registration and authorization.

Items: Shows a list of all items ads with their images or based on search results.

Item Info: Provides detailed information about a specific item and an author of the ad.

User info: Displays the information about a user: their name, email, phone number and other ads.

User Registration/Login: Allows users to create accounts and log in to them.

MyProfile: Displays user's personal info if they have an account.

My items: Displays the list of user's ads with items with the delete option and their images and allows user to post new ad

Admin Panel: Shows the list of all users, their status(banned/unbanned), roles (admin or user). and information. User's roles and status can be changed by admins.

Business Logic:

ItemService: For saving, finding and deleting new items and other business operations with items.

ImageService: For saving, finding and deleting new images and other business operations with images.

UserService: For saving, finding, banning and deleting new users and other business operations with users.

UserDetailsService: For retrieving user details during the authorization process.

Data Storage:

Database: Stores items, images, users, and roles.

ItemRepository: Provides CRUD operations for item data.

UserRepository: Provides all user-related data operations.

ImageRepository: Provides CRUD operations for images data.

SecurityConfig:

Authorization: Checks user roles and permissions to restrict access to certain functionalities if users don't have an account.

Error Handling and Logging:

Logging: Records important system events, errors, and debugging information.

Deployment and Infrastructure:

Web Server: Hosts the web application, handles incoming HTTP requests, and serves responses.

Application Server: Executes the Java code and manages application lifecycle.

Database Server: Stores and retrieves data for the application.

Web app for the online forum

User Interface (UI):

Homepage: Displays available posts for discussions where users can leave comments. The search bar for a specific post. Links to registration and authorization.

Post info: Provides detailed information about a specific post, date of posting and an author. Comments will be displayed here with links to authors.

User info: Displays the information about a user: their name, email, phone number and posts.

User Registration/Login: Allows users to create accounts and log in to them.

MyProfile: Displays user's personal info if they have an account. Log out option

Admin Panel: Shows the list of all users, their status(banned/unbanned), roles (admin or user). and information. User's roles and status can be changed by admins.

Business Logic:

PostService: For saving, finding and deleting new posts and other business operations with posts.

CommentService: For saving, finding and deleting new comments and other business operations with comments.

UserService: For saving, finding, banning and deleting new users and other business operations with users.

UserDetailsService: For retrieving user details during the authorization process.

Data Storage:

Database: Stores the data of posts, comments and users.

PostRepository: Provides CRUD operations for the post data.

UserRepository: Provides all user-related data operations.

CommentRepository: Provides CRUD operations for messages data.

SecurityConfig:

Authorization: Checks user roles and permissions to restrict access to certain functionalities if they are not signed up.

Error Handling and Logging:

Logging: Records important system events, errors, and debugging information.

Deployment and Infrastructure:

Web Server: Hosts the web application, handles incoming HTTP requests, and provides responses.

Application Server: Executes the Java code and manages application lifecycle.

Database Server: Stores and retrieves data for the application.

