

Create a web app that displays a list of products and their associated views. The app should have a main page that lists all products and a single-page view for each individual product. The single-page view should allow users to “like” a product.

The app should have the following **three** main components:

- **A database** to store product information and “likes” in a single table.
  - A SQL RDBMS is preferred - SQL Server, MySQL, SQLite, etc.
  - The schema should include a title, description, product image (e.g. URL), price and number of likes.
  - Populate the table with a minimum of 10 example items. Include a SQL script to create the database/table as well as populate it with the example items.
- **A backend API** that supports CRUD interactions.
  - The API should support GET requests for product list and single-page views.
  - It should also support PUT/POST/PATCH requests for adding likes.
    - **OPTIONAL:** Likes can also be removed with another POST/PATCH or DELETE request.
- **A frontend client** written in a modern frontend JavaScript framework
  - Framework should ideally be Vue, but React and Angular are acceptable.
  - Required views:
    - **Main Page View:** a scrollable page that lists all available products. Each item should display with the product image, item title, and price.
      - **OPTIONAL:** Implement infinite scroll or pagination.
    - **Single-page View:** a page with complete details for a single product. Include product image, title, description, price and number of “likes”. A button should also be placed on the page to increment “likes” by one for each individual user.
      - **OPTIONAL:** Add a back button or breadcrumbs to return back to the main page view.
      - **OPTIONAL:** Add a button to remove a “like”, i.e. if a user likes a product, but decides to remove that like, allow them to press an “unlike” button. Or to press the same button again to “unlike”

You have 3 days to complete as much of the assignment as possible. Please share your code through a service such as Github, Bitbucket, or similar.