Project Report – Vegetable Shop Website

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We developed a website for a vegetable shop, inspired by a real business managed by a relative of Tali. This gave us an opportunity to translate a real-world shop into a simple digital experience. The site lets users browse vegetables (and some fruits), open related Wikipedia pages for more information, and add items to a personal shopping cart. Our goal was to demonstrate clear, basic e-commerce functionality.

This was our first end-to-end website, which made the project both challenging and rewarding. We learned how to turn an idea into a functional product, write organized and maintainable code, and connect all parts so everything works together. We also practiced teamwork—setting expectations, hearing different opinions, and collaborating effectively.

We used **Visual Studio Code** as our development environment, which helped us manage the code efficiently.

For testing, we added various fruits and vegetables to the cart and submitted an order.

Regarding deployment: we **do not** feel safe launching the site publicly yet, because it is **not secure**.

We chose **TypeScript** (which Tali uses at work) for its structure and developer experience. It helped us manage data, build components (e.g., buttons, the cart), and keep the code organized.

We used **MockAPI**, a hosted service that provides a server-like REST API with simple built-in storage, to replace a custom backend during development.

How we used MockAPI

- **Resource:** `products` with fields: `id`, `name`, `imageUrl`, `price`, `link`, `category` (`fruit|vegetable`).
- **Angular integration (ProductService):**
  - `load()` → `GET /products`, then split results into fruits and vegetables on the client.
  - `addProduct()` → `POST /products`, updates the grid immediately.
  - `deleteProduct()` → `DELETE /products/{id}`.

- **Images:** If `imageUrl` is missing or invalid, we generate a dynamic image URL (via **loremflickr** seeded by name/category), with a **Picsum** fallback.
- **UI:** Fruits/vegetables grids with quantity controls and add-to-cart.

During development, we used **ChatGPT** for guidance when we were stuck or needed small examples. It served as a reference, but the final code was written by us through learning and experimentation.

Future improvements :

- **Search & filters** by categories (e.g., type, color, nutrition).
- **Reviews & recommendations** for items, including seasonal suggestions.
- **Richer visual design** (icons, colors, layouts) for a more professional look.
- **Admin & customer login** (admin: manage orders, content, promotions; customers: browse and order).

Conclusion: Building the site was very interesting. We faced many challenges and overcame them, learned new tools, and enjoyed the process.