Filofax

In this assignment we are going to start working with TypeScript instead of VanillaJS. This allows us to make use of types and other useful features within TypeScript. The objective of the assignment is to create an address book with two types of contacts, individuals or companies. Each contact shares a set of properties, but companies are slightly different in terms of what properties are set.

Template

This assignment comes with a barebone, scaffolded Vite project. The template can be downloaded in the assignment description in Canvas. Initial data can be found within the template in a file called **prepopulation.json** and it includes 8 contacts, which should be used when loading the initial list.

Figma design

The assignment comes with a PDF design file, which shows how the application should look like and behave. The final solution submitted must look almost identical to the Figma design.

TypeScript

The usage of TypeScript in this assignment is mandatory. All submissions which do not make use of TypeScript will not be graded.

Assignment description

In order to complete the assignment, all items on the list below must be completed.

1. (40%) Address book
    a. (5%) A title and subtitle must be present at the top of the page
    b. (35%) Stored contacts
        i. (10%) Stored in localStorage
        ii. (10%) Loaded at the beginning as a generic list of contacts (See Models section below)

iii. (15%) Displayed in the address book (See design file)

2. (60%) Contact card
    a. (30%) All cards should display (applies for both individuals and companies)
        i. (10%) Thumbnail
            1. The thumbnail should be an abbreviation of the contact name, e.g. John Smith would have the abbreviation JS.
        ii. (2.5%) Contact name
        iii. (2.5%) Contact type
        iv. (5%) Four icons: Phone, Email, Message and Calendar
        v. (10%) A small chevron, pointing down, to display detailed information about the contact. When clicked should display the detailed information
    b. (30%) Details
        i. (15%) Individuals (See Models section below)
            1. Phone number
            2. Title
            3. Email address
            4. Address
            5. Website
        ii. (15%) Companies (See Models section below)
            1. Phone number
            2. Industry
            3. Email address
            4. Address
            5. Website
            6. Key contacts (See Models section below)
                a. Name

b. Email address

Models

- Contact<T>
    - Name: string
    - Thumbnail: string
    - Type: ContactType
    - Info: IndividualInfo | CompanyInfo
- IndividualInfo
    - Phone number: string
    - Title: string
    - Email Address: string
    - Address: string
    - Website: string
- CompanyInfo
    - Phone number: string
    - Industry: string
    - Email Address: string
    - Address: string
    - Website: string
    - Key contacts: IndividualInfo[]
- ContactType
    - An enum which can be either an individual or company