

## **Project 1: Building a webshop (e-commerce website) using HTML, CSS and Bootstrap framework**

The website should enable customers to shop online: browsing through a list of products, viewing product details and selecting desired products to buy.

### **Functional requirements:**

- Users can see a list of all products that are offered (15-20 products, for illustration).
- Users can browse products using at least two different product categories. Examples of possible product categories are:
  - Consumer type: men, women, children;
  - Product size: S, M, L, XL;
  - Brand: Company A, Company B.
- Users can see more details (e.g., full product description) for a specific product in the list.
- Users can select and put a desired product in the shopping basket either from the list of products or from the product detail page.
- Users can see the content of their basket.
- Users can remove a product from their basket.
- Users can see on the home page the latest offers like new products or discounts.
- Users can use the website without registration, but they can register if they wish.
- If a user is registered, his/her name should be visible on the home and basket pages.

### **Non-functional requirements:**

- The website should be responsive, i.e., adjusting and adapting to any device screen size, whether it is a desktop, a laptop, a tablet, or a mobile phone.

### **Project activities**

1. Site definition and planning.
  - Decide which type of product you want to sell (clothes, electronics, furniture, etc.)
2. Information architecture
  - Define product taxonomies you want to use.
  - Organize the site content into taxonomies and hierarchies of information.
  - Research and design the core site navigation concepts.
  - Collect product information and images.
3. Site design
  - Make the site wireframe – draw diagrams that show the site structure and rough outlines of pages with a list of core navigation links.
  - Define which HTML elements and Bootstrap components to use.
4. Site construction
  - Create the site file structure and organize image files.
  - Create HTML documents, CSS rules and JavaScript scripts.

### **Project results to submit:**

- **Project document in PDF** format explaining the information architecture and the site design (use wireframing). It should have between two and five pages of text excluding diagrams and images, A4 format, font 12 size.
- **Link to your Git project** containing the website source code runnable by LiveServer. The link should be entered in the assignment submission online form in LearnIT. It could be also provided in the PDF document. Your Git project can be stored in ITU Git enterprise server (<https://github.itu.dk/>) or any other publicly accessible web-based Git hosting service (GitHub, GitLab, etc.)