### **Introduction to Programming - T1**

Mandatory Assignment 1 - Initial Project Description and requirement

### **■** Project description

Copenhagen is the city of bikes. There are more bikes than people within the city, thus the market for bikes provides an opportunity. The webpage www.dba.dk allows people to buy & sell things through their platform online. Bikes is one category out of many other. Bikes vitality for Copenhagener's daily life opens up for competition which created the idea for this project - to create a new & well-functioning platform where bikes easily can be sold and bought.

#### **■** Feature-list

One must have an account in order to upload a bike for sale. The project is to create a simple webpage where you can browse bikes as an anonymous user and in order to contact the seller of the bike you will need to create an account. A query will be sent to the seller which will generate a message to their connected e-mail address. The buyer and the seller of the bike will then be able make contact and to set up a meeting and make the affair. The website will include features as below:

### Home, Header & Footer

- Domain name that's easy to read and remember.
- Logo a visual representation of the business that's unique.
- Tagline a concise description of what the business does.
- Top navigation bar clear and easy to read top navigation
- Search bar
- Social Media Link
- Terms and conditions, privacy policy and sitemap
- Customer log-in
- Upload feature users should be able to upload their bikes
- FAQ page frequently asked questions about your products and services.

### **Category Page**

- Product title
- Short description of the bike
- Breadcrumb navigation for all pages
- Show number of products displayed in the page
- Product filtering (category of bikes)
- Sorting function (latest uploaded bike for sale, cheapest, condition)

### **Product Page**

- Product title
- Contact guery button being able to contact sellers of bikes
- Captcha or antispam feature protection for users
- Password protected page in order to contact seller
- Good quality of pictures with zoom in functionality
- Pricing information
- Product description (condition etc.)

### **Ouery Page**

- Customer query-checkout
- Contact information (email, phone name etc.)
- Product summary chosen product / seller to send query to.

**Group-members:** 

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### Class diagram

### **WEBPAGE**

Platform for selling used bikes in Copenhagen

### User Set-up function

- Identification
  - Username
  - Password
- Contact information
  - Name
  - Last name
  - Phone number
  - E-mail address

## Possibility of uploading bikes to the webpage (function) – options for a seller

- description upload
- type of bike
- product's condition (button: perfect/very good/ fatal etc.)
- location
- photo upload
- price

## Products (objects) – what user sees

- ID
- Name
- Type
- Description
- Condition
- Location

## List of bikes for sale

### (Array)

- Photo
- Shortened description
- Price
- Sort by price/category/type/latest etc.
- Location

## Log-in function

- password (query function)
- Login

# Registration completion or success (Function)

pop up window: success/ failed/ why it failed

# Query – being able to contact sellers (function)

- text box
- e-mail box
- Information safety text (function) "I am not a robot"

# Query landing page (query has been sent) – feature

- confirmation/failed text

## E-mail connection, sellers get notified when a buyer query has been sent to their uploaded mail (function)

- User and seller contact each other via email. The first e-mail comes from our system, but then it continues via private emails = generating an e-mail that is supposed to go to the indicated address

## Sort products (functions):

- Location (by postal code like DBA)
- Price
- Latest added bike
- Condition

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