**Introduction to Programming - T1**

Mandatory Assignment 1 - Initial Project Description and requirement

1. **A short description of the project itself**

Copenhagen is the city of bikes. There are more bikes than people within the city**[[1]](#footnote-1)**, 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. The website will be available for the whole population in Denmark, but the main market is Copenhagen due to the large use of bikes.

1. **A feature-list of the project**

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 as well. The buyer and the seller of the bike will then be able to set up a meeting and make the affair. The website will include features as below:

**Page Header**

* 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.

**Features (to be continued)**

* Upload feature – users should be able to upload their bikes
* Contact form – being able to contact sellers of bikes
* Captcha or antispam feature – protection for users
* Password protected page – in order to contact seller
* Top navigation bar – clear and easy to read top navigation
* Breadcrumb navigation - for all pages
* Main feature – products (bikes for sale)
* FAQ page - frequently asked questions about your products and services.
* Categories – Men´s bikes, Ladies bikes, Children bikes etc.
* Sorting function (latest uploaded bike vs. cheapest)

1. **An initial class diagram of the entire project.**

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

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 e-mail. The first e-mail comes from our system, but then it continues via private e-mails = generating an e-mail that is supposed to go to the indicated address  
- e-mail notification

Products (objects) – what user sees

- Name

- Type

- Description  
- Size   
- Condition

- Location  
- Photo upload – files management

Sort products (functions):

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

List of bikes for sale

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

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

Query landing page (query has been sent) – feature   
- confirmation/failed text

Query – being able to contact sellers (function)  
- text box   
- e-mail box  
- Information safety text (function) “I am not a robot”

Registration completion or success (Function)   
- pop up window: success/ failed/ why it failed

Log-in function   
- password (query function)   
- Login

1. https://www.bikecitizens.net/copenhagen-is-home-of-more-bikes-than-people/ [↑](#footnote-ref-1)