**Theme no. 1**

**Smart Marketing**

**Gherghe Tudor-Alexandru**

**Oloeriu Delia-Ioana**

**Content:**

1. Applicability domains
   1. use-cases (minim 4, maxim 8);
   2. one of the use cases is chosen and the system is defined in detail;
2. System definition:
   1. components that enter the system infrastructure;
   2. protocols used in communication processes;
   3. process automation;
   4. estimated costs;
3. **Applicability domains**
   1. **use-cases**

1. Smart shopping cart

2. Stock management

3. Client app for finding products in the store, getting suggestions, and checking how busy the shop is

4. Smart shelves

* 1. **Smart shopping cart**

The smart shopping cart has a screen that people can connect to their customer app by scanning a QR Code. The shopping cart has a scanner that determines what products you put in and out of it and will also automatically make the payment when exiting the store.

1. **System definition:** 
   1. **components that enter the system infrastructure;**

* a screen for the shopping cart that can connect to the app
* a barcode scanner
* GPS sensor
* Internet connection
* a shopping cart
  1. **protocols used in communication processes;**
* the GPS sensor has a wired connection to the screen
* the barcode scanner has a wired connection to the screen
* the Internet is used to access the cloud for resource management reasons
  1. **process automation;**
* the items introduced in the shopping cart are automatically scanned
* the payment is automatically done once you exit the store
  1. **estimated costs;**
* shopping cart: 150 $
* GPS sensor: 2 $
* barcode scanner: 100 $
* screen: 100 $

Total: 352 $ / shopping cart