Week 2 Seminar

# Task 1.1

Considering a taxi booking system:

**Who needs this system:**

* Individuals with transport issues
* Individuals who want to earn an income

**What problems will it solve?**

* The need to use a particular type of vehicle (e.g.: for long-distance trips, off-road travel, etc.). Certain people may not have the appropriate vehicle for such activities.
* The need to use a vehicle temporarily (key users include tourists)
* The need for more storage space to optimize transport
* Provide convenient transport options
* Provide the opportunity for individuals to earn an income

**What functionalities will it offer?**

* User register
* Passengers can book different types of vehicles (e.g.: sedans, SUVs, etc.)
* Passengers can share their pick-up and drop-off locations with their designated driver.
* Passengers can track their designated driver.
* Passengers can call their designated driver
* Drivers can call their designated passenger

**What should the system do to enable its functionality?**

* Make use of GPS
* Provide a list of cars with prices and vehicle details
* Provide a call button that directly contacts the designated driver

**What data are to be used in the system?**

* General user information
  + Name
  + Contact number
  + Email
  + Permanent address
  + Emergency contact
* Passenger-specific information
  + Pick-up location
  + Drop-off location
  + Time of pick-up
  + Reviews/rating
  + Vehicle requirement
* Driver information
  + Vehicle model
  + Police report
  + Bank details
  + Track record
  + Languages
  + Date of birth
  + Vehicle insurance
  + Vehicle registration
  + Vehicle number plate
  + Driver’s license
  + Current location
  + Driver image

**Who are the stakeholders**

* Passengers – containing
* Drivers - system
* Admins - sys
* System technicians
* System developers
* Competitors
* Hackers
* Promoters/marketers
* Investors
* Banks
* Regulators – e.g.:

# Task 1.2

The software system should have a registration functionality.

**Why is a registration function needed**?

* Allows the system to determine whether a user is a traveler or a driver
* Allows the system to collect important information about the user

**What other functionalities will the registration enable?**

* Allows the system to identify users to others on the platform when necessary
  + Inform travelers of their designated driver’s vehicle number, vehicle type and license numbers
  + Inform drivers of their designated travelers name
* Permanent address collection

Consider security aspects as well (safeguarding user information such as personal details/locations info)