**Ride and Go Assignment: Task Instructions**

Create a document that contains the following:

1. **Business Case (10pts)**
   1. What does it cost to make this app?

Make a list of cost-factors for developing this app. Try to make (‘best effort’) estimates for the actual costs of each factor. You may work with a range, like minimum and maximum – to capture the uncertainty of your estimates.

* 1. What are the revenues of this app?

How does this app bring in money? Does it lead to more sales? Does it enable the replacement of other (existing) systems/personnel?

1. **Technical Feasibility / Risks (10 pts)**
   1. Which technical infrastructure will be needed in order to realize this system?

Consider: which computers, sensors, network, ….

* 1. Will the system require any completely new technology – either software or hardware? Will this be a risk to the success of the system?
  2. Can you think of any other technical risks to the development of the system?

1. **Stakeholders (10 pts)**
   1. Describe the stakeholders of this system (describe at least 5, and at most 7 stakeholders)
   2. For each stakeholder, describe one or more of his interest (‘stake’) in the system.
   3. Are there any legal regulations that apply to this app?
2. **Forces and Drivers (10 pts)**
   1. Describe at least 7 forces that apply to the design of this system.
   2. Which of these forces do you think are *architectural drivers?* Explain why.
3. **Requirements (10 pts)**

Create a requirements for this system. Do this as ‘lightweight’ as possible.  
Your Requirement Document shall have the following:

* The document shall have information regarding authors, date and version
* Requirements shall be numbered
* The document shall include 10 functional requirements
* The document shall identify at least 5 quality requirements on the system.

1. **Use case diagram (10 pts)**

Create a use case diagram for this system.

The use case diagram should present the main interactions between the system and the users. The use case diagram should explicitly mention any external systems that are involved in this system.

1. **Subsystems (10 pts)**
   1. Can you identify which subsystems will be needed in this system?
   2. Give a concise description of the main responsibility of each subsystem.  
      Hint: avoid enumerating detailed functionality.