

Homework #1

The software development methodology we are studying in class is called Agile UP (Agile Unified Process) and is a simplification and combination of the Rational Unified Process (RUP) and Agile process. There are other Processes and methodologies that we will not cover but are often used.

(15 points) Q1. What is software process? Please provide a list of five software processes with a **brief** description. (Maximum one paragraph for each process)

(15 points) Q2. What is a software development methodology? What is/are the difference(s) between software process and software development methodology?

(10 points) Q3. Please provide a list of five different Agile methods with a **brief** description. (Maximum one paragraph for each methodology).

(10 points) Q4. A good software development methodology is associated with number of benefits. Please list five benefits.

(10 points) Q5. Please provide a **brief** comparison between processes that you listed in Q1.

(10 points) Q6. Please provide a **brief** comparison between methodologies that you listed in Q3. Which one you think is a best fit for our class project and why?

(30 points) Q7. Do following for the Car Rental System (CRS) given in eLearning.

- a. Identify and formulate requirements and constraints
- b. Provide priority weights for the requirement according to the nature of the car rental business.