**July 21st 2018-07-19 CS264SS**

**Agile Software Development**

Please answer the following questions regarding the Agile Software Development Methodology and remember write the answers **in your own words** supported by citations from your references (in the reference section). Type your answers in this document as you will be asked to submit this to Moodle. Please use at least two diagrams (Agile, Waterfall model) to help illustrate your answers to the questions below.

1. Briefly describe what is meant by the Agile Development Methodology. In you answer, include short descriptions of the following: (max 400 words)
2. The Agile Processes

The Agile Processes are all the different methodologies of Agile development.

1. Scrum and Scrum Master

Scrum is an Agile methodology. Scrum is made up of three different categories: Roles, Artefacts, and Time Boxes. The roles are ScrumMaster, Product Owner and the team. ScrumMaster manages the whole scrum process and ensures smooth and efficient operation. The Product Owner is who makes the requirements, ex: customer. The Team is the group of people that do the actual development. Time Boxes

1. Sprints

Sprints are development cycles where assigned work must be completed. Sprints have variable time periods that are decided on by the Scrum master. There are periodic meetings to discuss sprint progress. At the end of a sprint work is reviewed and assessed.

1. In your own words, try to explain how the Agile Development Methodology is different to the traditional Waterfall model of software engineering. Identify **a least three differences** between them. (max 250 words)
   * 1. Waterfall gets its objective from a customer at the beginning of the process and follows through whereas the Agile method has the customer be more involved with input and comments
     2. As a result of more user involvement the Agile method produces more user-focused applications.
     3. Progress in the Agile development cycle is more incremental while the Waterfall method’s progress is measured according to the entire scope of the project.

**Reference Section:**

You must include 8 references here in support of your answer. The reference styles will be the latest version of the guidelines. You may use on youtube video and a maximum of two websites as your references. The remaining five references will be review papers and journal articles or books.

Lotz, M. (2017, August 14). Waterfall vs. Agile: Which Methodology is Right for Your Project? Retrieved from <https://www.seguetech.com/waterfall-vs-agile-methodology/>