**Software Architecture**

**2019-20 Semester 2**

**Assignment 1**

**Feb 2, 2020**

**Objective:** To get familiar with the software architecture basics.

**Activity:**

1. Choose an existing software system from your workplace
2. Understand the purpose (goal) of the system & its key requirements
3. Study the architecture and understand the tactics used

**Document** your work in the following format in PPT:

1. Purpose of the system (Goal)
2. Key requirements of the system – functional & non-functional
3. Utility tree of Architecturally Significant Requirements (ASR)
4. Tactics used to achieve the top 3 ASRs. Explain each tactic in detail
5. Software Architecture diagram – Context diagram, Module decomposition diagram, Component & Connection diagram, Deployment diagram
6. Top 3 Key learnings you got by doing this assignment (one slide per participant)

Max 20 slides

Max File size:10 MB

**Due date for submission**: Feb 22, 2020

**Evaluation component Weight:** 5%

**Document format:** PowerPoint slides (PPT)

**Submission:**

* Submit only one file per group in Taxila (eLearn Portal)
* Mention the participant names on first slide
* Every participant should click on the ‘Submit’ button
* Participants who do not discuss with their respective group members, will not get marks
* Participants who do not contribute towards the assignment, will not get marks.
* Participants who do not provide key learnings slide as part of the group submission slide-deck, will not get any marks
* Participants who do not click on Submit button, will not get marks

**Evaluation criteria:**

1. Originality - Explain in your own words, do not copy paste
2. Depth of analysis – Understand the requirements well, analyse the architecture well and understand how the ASRs have been achieved
3. Clear and easy to understand diagrams
4. Brevity of descriptions yet complete & easy to understand