

Indian Institute of Technology Jodhpur

CSL7090 Software & Data Engineering

Assignment No.1

Due on: 20-08-2022

Instructions:

1. **Attempt the assignment on the google form:** <https://forms.gle/PuGsHupr5czt8Qdj9>
2. No pdf is required.
3. After submitting the form, turn in the assignment on google classroom.
4. **Plagiarized submissions will not be evaluated or awarded with an 'F' grade in the course.**

Please study the below-given link carefully before attempting the assignment.

<https://hillside.net/index.php/a-pattern-language-for-pattern-writing>

<https://www.youtube.com/watch?v=XttquKnTUOs&list=PLdzqwsgWJ4p7QSkw1rFcMCjSjj88EhLnK&index=17>

<https://www.youtube.com/watch?v=gtYYrcgifeM&list=PLdzqwsgWJ4p7QSkw1rFcMCjSjj88EhLnK&index=18>

<https://www.youtube.com/watch?v=jhSRavizK-Y&list=PLdzqwsgWJ4p7QSkw1rFcMCjSjj88EhLnK&index=19>

<https://www.youtube.com/watch?v=qW02Clnosg&list=PLdzqwsgWJ4p7QSkw1rFcMCjSjj88EhLnK&index=23&t=2710s>

<https://www.youtube.com/watch?v=mqEXTalwYp4&list=PLdzqwsgWJ4p7QSkw1rFcMCjSjj88EhLnK&index=24>

Q1. Explain CQRS design patterns with the following subsections. [5 x 2 = 10]

- a) Problem Statement,
- b) Context,
- c) Forces/Constraints and
- d) Solutions - Static & Dynamic schematics,
- e) Consequences.

Q2. Explain Saga design patterns with the following subsections. [5 x 2 = 10]

- a) Problem Statement,
- b) Context,
- c) Forces/Constraints and
- d) Solutions - Static & Dynamic schematics,
- e) Consequences.

Q3. Compare CQRS and Saga design patterns. [10]