**Question 1:**

**Requirements characteristic:**

Reliability: the requirements are clear and detailed.

How often the requirements can change: cannot change the requirements since customer’s requirements are clear at beginning stage.

Type of requirements:

Functional requirements:

- Creating an account and a family profile

- Search babysitter with options

- Job posting

- Manage parents posting

Non-functional requirements:

- The website must have a 99.7% up-time

Number of requirements is average.

Can the requirements be defined at an early stage: it can be defined by 3 main sections.

This project is a Babysitter application

**Development team:**

Team size: the articles are not mentioned about team size, but the project requirements including the application so team member should in medium range.

**User involvement in the project:**

Since the client (start-up company) wants to develop an application and not need customer’s interaction

**Specify the logic: In this situation,** the topic given that a start-up company wants to develop an application help parents easily to find Babysitters as soon as they want. So, this application should include front-end, back-end, and also a database to store user’s data such as SQL server, Firebase, MongoDB.

- Back-end: this application and website will include 2 rights including:

+ Role parent(user) : login and register to access application, search babysitter through some kinds of options (experience, area, rating,..), publish job-posting.

+ Role Babysitter : login and register, posting their profile, apply job-posting

**According to the situation**, it’s best to implement the Waterfall mindset to build the software, all phases of project ( REQS - DESIGN - CODE - TEST - WORKING SOFTWARE)

Question 2:

4 functional requirements are necessary for babysitters are :

+ Babysitter can posting their shift in order to parent can easily to approach.

+ Babysitter have personal profile include ( experience, availability, area, pay rate background)

+ Babysitter can view job-postings

+ Babysitter can accept or reject job-postings

Question 3:

+ As a babysitter, I want to manage all the babies whose I taking care. So that, I can easy to manage

+ As a babysitter, I want to view newest job-posting. So that, I can accept or reject job-postings from parents.

Question 5:

1. I’m not agree with using LEAN methodology to apply this project Because, I feel that the Waterfall model is the most appropriate approach in this. Since the requirements system is clear and subject cannot change at any time, it is appropriate to deploy the system at early stages.

b. I suggest to Black-box ( Functional and non-functional testing ).