**Question 1:**

1. Requirements characteristics
   * Reliability:
     + It was stated very clearly above that there is a problem related to shopping online during the Covid-19 outbreak that needs to be solved , and an application is required to overcome this problem.
     + The project requirements are clear, well-defined and possible with clear requirements that selecting, fitting and purchasing women’s clothing.
     + It can run immediately and user can use while the project finished.

=> This project is highly reliable.

* + Types and number of requirements:
    - There are also both *functional requirements* and *non-functional requirements* in software requirements*.* All of them are defined clearly and not confusing.
    - There are more than 5 requirements that was listed above. It has 3 functional requirements and 2 non-functional requirements.

=> Types and number of requirements defined this project is not too complex for our team and our members can understand the requirements.

* + Frequency of requirement may change:
    - The requirements that were mentioned above is just some features of this Web application.
    - The requirements of customers can continuously change, so some of features can be modified and changed, updated to meet the requirements of customers, users.

=> The requirements may change regularly, and need high demand.

* + Determination of requirements at an early stage
    - Some of requirements was defined above but 5 requirements were mentioned above is not enough to build a completed and detailed system.
    - The organization can be added or removed some of features in the process of project to complete the system.

=> It is well-defined, clear but not enough.

1. Development team
   * Team size:
     + The situation above was mentioned that our team has 9 peoples.
     + It is *6 developers, 2 QA* and a project owner who is me.

=> It is medium scale of team size and enough to build a project that was not too complex.

* + Level of understanding of user requirements by the developers:
    - All of requirements are mentioned clearly above and our members can understand clearly.
    - The organization can provide additional resources and information when needed.

=> Our team can easily to understand and construct a application that meet the requirements.

1. User involvement
   * The situation mentioned “*The organization had contracted with a local company to provide additional resources when needed*.”
   * We have a contact with organization to communicate and give the feedback about the project.
   * Our project about Web abb has many customers to join in and use

=> The user involvement is highly.

* Based on the characteristics mentioned in the context of the software development project, as product owner in this project I suggest that the **Agile/Scrum methodology** is the best approach, method to use in this project. The Agile/Scrum model is iterative and incremental, prioritizing flexibility, collaboration, and customer feedback at every stage of development. It also allows for customers to release the product early and collect feedbacks from users, which gives the development team an opportunity to apply user feedback into future iterations of the product. Agile works best in a cross-functional team of 6 developers and 2 QA working on a project of medium scale. In sum, the Agile/Scrum methodology is suitable for this software development project and will likely result in a high-quality end product.

**Question 2:**

I recommend that the team use **black-box testing and also white-box testing. I choose black box testing because** users would be involved in evaluating the project's flaws and providing feedbacks, particularly regarding the system's usability. Additionally, there is *no mention of the tester's knowledge or experience* in the project description, making black-box testing a suitable option. Furthermore, there is no requirement for the analyzer to have itemized practical information on framework., as detailed technical knowledge of the system is not necessary.

And another testing is white-box testing because team have both developers and testers on your team. This approach allows for collaboration and knowledge sharing between the two groups, and it be enable for developers to identify potential and exact issues and areas for optimization, while testers can provide valuable feedback on user experience and interface. Together, they can ensure the testing from both a functional and technical standpoint, resulting in a more robust and reliable product.

**Question 3:**

* The four test cases or a descriptive narrative for what I expect the testing team to use when testing this product is:
  + The first test case that I wanted when testing this product is : from customer perspective, I want this web application will show 360- degree product views. I want to see in front, beside , behind of this product.
  + The second test cases is that: still from customer perspective, I want high and nice quality product images. It means, when customers zoom on images, it still clear and possible to see detail. It not broken.
  + The third test cases is that: when customers return or exchange products, they must be responded immediately and quickly
  + The fourth test cases is: when I click on product list on web abb, it must be displayed clothing items in groups. It means it must be divided in to small groups such as : size, style, color,..

**Question 4:**

* The four functional requirements of system are:
  + Managers and employees can set the personalized size recommendations based on previous purchases and customer input.
  + Managers can provide feedback on function to update or change requirements.
  + Managers can divide products into many small or categories items groups.

+ Medial records managers are responsible for ensuring that the system conforms to legal requirements on personal Information systems.

* The two non-functional requirements of system are:
  + The system should show images related products that customers picked.
  + The module should be able to handle a growing number of customers on sale day.

**Question 5:**

* The two user stories for this system are:
  + As a manager, I want to set the personalized size recommendations based on previous purchases and customer input so that I can set the update size, or out stock size for products.
  + As a manager, I want to divide products into categories so that I can change or update many new categories of product.

**Question 6:**

For Customers:

Login to buy products in cart

Chat with guiders

Search product

View product list of clothing items

**Customer activity**

Notification

Chat

Search

View product list

Register

Login

**Customer tasks**

Chat with guiders to receive guides about sizes, color about products

Notifications about order

Recommend popular products

Click on product list to view all products

Verify by phone number

Login by phone number and password

**Release 1**

Notifications about new products

Recommend best sale products

Click on each category of product to view related product

Login by facebook, gmail,..

**Release 2**

Chat to ask number of products

Verify by email

**Release 3**

Notification about Sale day, vourcher

**Question 7:**

The three assumptions regarding the flexible return and exchange policies feature are:

* **Goal setting** feature is high impact if wrong, low probability of it being wrong.
  + It is needed for the process of any project.
  + It help manager can view their goals.
* **Feedback** feature is high impact if wrong, high probability of it being wrong.
  + Because this is web add so feedback about return and exchange products is very important for team to develop this app, so if feedback is wrong, it will causes high efficient .
* **Development plans** feature is high impact if wrong, low probability of it being wrong.
  + This feature is update and develop frequently so low probability of it being wrong.
  + This feature is very important for our development plans so high impact if it is wrong
  + If it is wrong, it will directly affect on customer’s experience.