**SWE201c**

**Question 1:**

1. Requirement characteristics
   * Reliability:
     + It was very clear about the issue that needs to be solved and solution to solve of that application
     + The project requirements are well-defined, but also can be changed in processing of development.

* ***The reliability of these requirement rate from MEDIUM.***
  + Types and number of requirements:
    - Requirements mention both *functional requirements* and *non-functional requirements*.
    - Context mentioned that, at the beginning, application includes about **5** requirements.
    - They are well-defined.
* ***Types and number of requirements are not so complex for our team.***
  + Frequency of requests may change:
    - Requirements which were listed above may be change in future to meet with customer’s demand, they are just beginning features of this application.
    - There will be more features in future to finish the project.
* ***Request may change regularly.***
  + Determination of requirements at an early stage
    - Although there are **5** requirements at early stage, they are NOT enough for a completed system.
    - In process of developing, features can be added or deleted or adjusted.
* ***Define requirements at early stage, BUT NOT enough.***

1. Development team
   * Team size:
     + In this circumstance, the project includes **9** members:

**1** *product owner* -me

**6** *developers*

**2** *QA*

* ***9 - an AVERAGE size of team to build a not so complex system.***
  + Level of understanding of user requirements by the developers:
    - Team can be provided additional information and resource when needed.
    - Furthermore, early requirements are defined clearly, so team can be easily to understand.
* ***Developers can understand what customer needs easily.***

1. User involvement in the project
   * *“The organization had contracted with a local company to provide additional resources when needed.”.*
   * In development process, team will get additional resources. It is customer’s work to support and provide more information. So that progress of this project can be handled.

* ***User involves to this project highly***

**Conclusion:**

* The **Agile/Scrum** methodology is the most effective way to apply, according to the features described in the context of the software development project. At every level of development, the Agile/Scrum approach prioritizes flexibility, teamwork, and customer feedback in a progressive and iterative manner. As a result, the development team has the chance to incorporate user feedback into subsequent revisions of the product. It also permits customers to release the product early and collect user feedback. By focusing on the needs of the consumer, it is certain that the finished product will satisfy those needs. Overall, this software development project is a good fit for the Agile/Scrum process and is expected to produce a high-quality final product.

**Question 2:**

* Due to the involvement of users in identifying project defects and providing feedback, especially related to the system's usability, I recommend that the team should use **black-box testing**. The project description also lacks the tester's expertise and experience. Furthermore, for black-box testing, the analyzer doesn't necessarily need to be a specialist and isn't required to possess in-depth practical knowledge of the framework.

**Question 3:**

About my understanding about this question, 4 test case or descriptive narrative I expect the testing team to use are:

* Test case 1: Testing 360-degree Product View with some random product.
* Test case 2: Testing random clothing items on diverse body types and size.
* Test case 3: Testing whether system can recommend size by input measurements of customer.
* Test case 4: Testing high-quality product image by checking random image of random product.

**Question 4:**

* The 4 *functional requirements* of system are:
  + **360-Degree Product Views** which allows customers to see a garment from different angles.
  + **Size Guides and Recommendations** which provides detailed size guides that help customers choose right size based on their body measurements.
  + **Multiple Model Representation** which displays clothing on models with diverse body types and size to help customers see how clothing might fit them.
  + **High-Quality Product Images** which can show different perspectives, close-ups of fabric textures, specific product features can give shoppers a clearer idea of how the clothing will look in person.
* The 2 *recommended* *non-functional requirements* of system are:
  + **Availability:** The system should be accessible 99.99% of the time.
  + **Response Time:** System should response lower than 3-second timeframe to user actions.

**Question 5:**

* The two user stories:
  + As a buyer, I want to see all different angles of specific clothing so that I can make my own decision to buy it or not.
  + As a buyer, I want to view specific clothing on models with diverse body types and sizes so that I can see whether it might fit me.

**Question 6:** Story map for customer’s screen

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Activities** | | | | | | |
| Product Viewing | | Product Buying | | | Shopping cart | |
| **Tasks** | | | | | | |
| View Product |  | Checking Product Info | | Pay | Add to cart | View cart |
| **MVP** | | | | | | |
| View Product’s details |  | Checking size, color | Check total money | | Add to cart | View number of products |
| View feedback about product |  |  | Pay with cash | | Delete cart | View name, category of products |
| View rating |  |  |  | | Adjust cart |  |
| **Release #1** | | | | | | |
| View 360-Degree Product View |  |  | Pay with credit card | |  | View whether cart existing or not(maybe product deleted by shop) |
| View product with Multiple Model Representation |  |  | Pay with Paypal | |  |  |

**Question 7:**

As my understanding about this question, the three assumptions regarding the **Flexible Return and Exchange Policies** features are:

* **Exchange ill-fitting items being error** feature is high impact if wrong, low probability of it being wrong.

+ We may get error in shipment process, and this will make customer lose their trust with shop. So that if not deal with this error soon, shop will lose more customers in future.

* **Chat system lost** feature is low impact if wrong, low probability of it being wrong.

**+** Lost connection with customer when they got problem with clothing can lead to misunderstanding between shop and buyer.It may occur when network or chat system get problems.

* **Spelling error** feature is low impact if wrong, high probability of it being wrong.

+ In Exchange Policies, this risk can be easily met. Maybe this problem occurs suddenly by carelessness of writer but this not make large impact.

End.