**Question 1:**

In this circumstance, I recommend using Agile methodology for some following reasons:

* *In terms of requirements characteristics:*

+ Reliability: The requirements are defined quite clearly but they are not enough and still have some missing points that need to discover later in the development process. So, when applying Agile, after each sprint, the requirements will be more detailed thanks to the collaboration between customers and development team.

+ How often the requirements can change: As mentioned above, the requirements are not 100% clear, fixed and still missing in some points. It is the reason why we are not sure that the requirements will remain unchanged throughout the development process. With the help of the organization, using Agile is a good option because one of the principles of Agile is "Welcome changes", so we can adapt easily with changes in user requirements.

+ Can the requirements be defined at an early stage: the requirements are defined quite clear, but still have some vague points needed to be discovered by the collaboration between the team and customer.

* *In terms of development team:*

+ Team size: From this situation, our team includes 6 developers and 2 QA. Thus, it is very suitable to apply Agile methods because the number of members for a team working in Agile methods is quite small. And the appropriate number of members for Agile method is between 3 and 9 members, so 8 members in this case (6 developers and 2 QA) will help the team operate in the most effective way.

+  Level of understanding of user requirements by the developers: From this circumstance, our developers are expected to have a quite good understanding of requirements. This makes the development process become easier. And with the help of customer to clarify the requirements and their needs, after each sprint, customer requirements become clearer and more detailed, developers' understanding of the requirements improves.

* *In terms of user involvement in the project:*

+ In this case, the organization is expected to contact with our company to provide additional resources. It is a good condition to choose Agile because in Agile, the customer participation will be throughout the product development process, helping to provide feedbacks as well as additional resources to help to improve the quality of product.

* Because of the reasons mentioned above, I suggest using Agile methodology for the above situation.

**Question 2:**

* The list of 4 functional requirements that I want to apply the given project:

+ Managers could provide feedback on employee performance and employee could give feedback on their performance.

+ Managers and employees could create development plans based on areas for improvement identified through performance monitoring.

+ Managers could assess employee competencies, such as technical skills, communicational skills, or leadership abilities.

+ Managers and employees could set performance goals and track progress.

* The list of 2 non-functional requirements that I want to apply the given project:

+ The system should maintain employee privacy by ensuring that only authorized individuals can access employee performance data.

+ The module should be able to handle a growing number of users and tasks without degrading performance or reliability.

**Question 3:**

* The list of 2 user stories based on my answer in question 2:

+ As a manager, I want to performance goals and track my progress so that I can create a detailed plan and schedule to achieve my goals.

+ As a manager, I want to provide feedback on employee performance so that I can help them to improve the quality of their work.

**Question 5:**

* The list of 3 assumptions regarding the competency assessment feature:

+ High impact if wrong, high probability of providing feedback to employee by manager being wrong. (1)

+ High impact if wrong, low probability of setting performance goals and tracking progress being wrong. (2)

+ High impact if wrong, low probability of creating development plans based on areas for improvement identified through performance monitoring. (3)

Explain:

(1): This is because managers could not to assess the performance of employee exactly 100% remotely, due to the surrounding impact, like the noisy of background. And if it happens, the performance of the work will be impact greatly and even can damage to development cost.

(2): This is because nowadays, the technology is becoming modern than ever before, so tracking progress and setting goals are easy task for computer. But if it happens, the impact of it will be huge because we keep tracks wrongly and so can not create a right plan to work towards.

(3): This is because as mentioned above, the current technology is extremely good, that’s why it enables us to create development plans easily. But if the development plans are created wrongly, it will have a negative impact for the whole development process.

**Question 6:**

As we know, functional testing is a type of testing that aims to check whether the features of the product match the customer's expectations. It involves black box testing and has nothing to do with the source code inside. In contrast, non-functional testing is a type of testing that checks aspects such as performance, reliability, security, usability, and so on. Non-functional testing improves the user experience.

From the characteristics of functional testing and non functional testing, in this case, I suggest using functional testing for the team because of two main reasons:

+ Functional testing helps to check whether the product's features meet the needs of the user or not. And if something goes wrong, they will be fixed quickly to avoid huge damage later.

+ Because defects are detected and fixed early, functional testing not only helps companies reduce the time it takes to fix bugs, but also saves money in the long run.

**Question 4:**

Story map for the employee’s screen in mobile app:

**Set goals and track progress**

**Create development plans**

**Give feedback to their performance**

**RELEASE 3**

**Sort goals by the importance ascendingly / descendingly**

**RELEASE 2**

**RELEASE 1**

**Create sub plans (plan B) for unexpected situations**

**View update history**

**Save in private archive**

**Export to PDF**

**Filter feedback based on day, month, year**

**Assess communicational skills**

**Assess technical skills**

**Visualize the progress using charts**

**View all goals**

**Update development plans**

**Use graphic tools to visualize the plans**

**View feedback history**

**Keep track of the progress**

**Write feedback based on performance monthly, annually**

**Set goals by week/month/year**

**Assess leadership skills**