Mohammad Ali Jinnah University

Chartered by Government of Sindh - Recognized by HEC

Assignment 3

Subject: Software Requirement Engineering

Section: CM

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Assignment 3

External Quality Attributes

i. Availability

1. The POS system will be available almost 12 hours a day all week except Friday.
2. The system will be available from 10am to 12 pm then 4pm to 10pm

ii. Integrity

1. The system has security so no one can access the system from outside.
2. The system will notify if something suspicious happens

i. Performance

1. The system can handle almost 1000 transaction in 1 min which is made at any time and it is optimize to do it better
2. The system will always work better it will also have its backup if server get down it immediately notify admin so that they can make it smooth again.

ii. Reliability

1. If more than the limit of transaction is made the system has to bring that data to store it to a database and delete from it run time database to perform well.
2. The optimization is made by different processes to make it more reliable.

iii. Security

1. A lot of attempt to access system will block that user for almost 24 hours and notify the admin too.
2. All transaction detail is secure and other method of payment are linked by banking API's

Internal Quality Attributes

i.   Efficiency

1. EFF1: The system will be more efficient because of the reason that it optimizes itself.
2. EFF2: Because the system can perform 1000 transaction in 1 min it means it is more efficient.

ii.   Portability

1. POR1: The system can be optimizing by changing the code 10% so it can work on android too.
2. POR2: The system code is done in good practice so it is more easy to do changes

iii.   Reusability

1. RES1: Some of the functions that are made in the system can be useable in some modules
2. RES2: Some of the project modules can be use in similar systems.

iv.   Scalability

1. SCA1: The system memory can store up to 1tb of data without crashing then when it is at the range of 1tb it stores it to an empty database of 1tb and clean it to work again.
2. SCA2: The system can be easily used in 3 to 4 branch.

v.   Verifiability

1. VER1: The quality assurance team should check the capability of the system that it should not lag or crash on 1000 transaction in 1 min
2. VER2:The system should not become slow after getting a lot of data and should also has no bugs which cause problem in the system.