

# Human Computer Interaction

## Quiz 2

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Name: Om Ashish Mishra

Registration Number: 16BCE0789

Slot: C2

### Our Project

Vcare Health app for having an interface between the doctor and patient. It is made for a better understanding of the doctors in the locality and how the patients can attend help from them.

My Portion(Doctor partion): (also the modules)

- To make the doctor part for keeping the details of the doctor.
- (To agree with the patient's appointment with the doctor.)
- For asking the previous medical record from the patient.
- Write a prescription to the patient.

Note: The given above are the scenarios of my part of the app. In the test case below I am giving a generalized way of handling the above scenarios and not in specific.

### Test Plan:

- Unit (Module) testing
  - Checking of contains of the doctor list one-by-one and isolate each error sequentially (one after the other).  
Checking for the medical report and other parts.

❖ Integration testing

- The modules are combined to form this portion of the app. Like the doctor list, medical records, the written up prescription by using linking ids of the android studio.  
(Integration plan specifies the order in which to combine modules into partial systems)

#### ❖ System testing

- Running the doctor portion of the app as a whole sub component of the project. (Alpha testing is performed within the development organization, Beta testing is performed by a select group of friendly customers)

#### ❖ Acceptance testing

- Taking various test cases like first checking the doctor field, then checking the list field in one test case , then checking the prescription issued and seeing doctor list in another test case etc.

#### Type of testing's:

##### Functional Testing:

Here, we are going to check the interactive behavior of the app to test the details. Like if we click a button/model whether it will take us to a particular page or is showing an error. We have to check whether the functions in the app are returning their results properly to the user like showing of details going to another page, proper data abstraction is taking place or not etc.

##### Structural Testing:

Here, we check the app follows a simple equivalent structure or not. The flow of the design is checked in this. The flow of the design has to be same in order to make the app our appreciable by the customer. If the layout is different in every page the customer or the user of the app may get dislike towards the making of the app.

### Usability Testing:

The usability case testing shows the following way of testing in which one case is the user tests the details and another is when the admin of the product tasks it. For example in our case since we are testing as the admin we may not find the faults in the app but when it comes to testing from customer or from a person who is not user has different option about the app. (The more you know about experimental design the better your testing will be, but the more you know about users the better the data you can get from any testing.)

### Interfacing Testing:

Interfacing testing is based on first we divide our app into smaller modules that are possible to create and test and then we gradually come it to get back the project we want it to look like. First we divide it our project between 6 members, then we check the sub modules and then we combine them to complete our project. Like my portion is Doctor Part I complete it and then we all through different IDs join them with Patient, Services, Appointments, Prescription and Login parts.

The Best Testing, according to me, is **usability testing** as it covers all the other testing and it also checks and designs according to the customer input and wants. Therefore usability places a very important part here.

Thus we can also check on the Validation of the app by authentication and authorization which will help us to check the details are not hampered by users.

Verification of the flow:

❖ First the doctor page

- A button to go to the list of doctors
  - Name of the Doctor
  - Location of the doctor
- A button to agree to an appointment
  - Accepting the request of patient for meeting
- A button to ask for medical details
  - Receiving the medical records of the patient
- A button to go to write prescription
  - Sending an prescription to the patient

❖ Go back to login page(log out)

Thus this is the flow of the app and is the structural testing behind it.