Scenario Testing -Stage 2

CPSC 481 Fall 2020 Team E



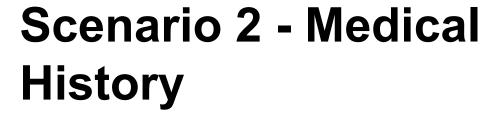
Tasks

Must-Haves	Should-Haves	Nice-to-Haves
Vital Signs: Display a patient's current body temperature, pulse rate, respiration rate, and blood pressure	Add notes: Add notes about a patient with regard to their progress, prognosis, treatment, etc.	Security Clearance: View if a certain person has security clearance on a specific medical unit.
Medical History: Can put up the patient's medical history. Example: medication, allergy, surgeries, etc.	To Do List: Nurses and doctors can create a to-do list or treatment plan for a specific patient	Get Visual Notifications: Get notifications from patients that ask for assistance or to-do reminders.
Check Diagnostics test Results: Doctors and nurses can view recent and pass diagnostic test results, for example view the images like x-rays, CT scans, etc.		Surgery 3D Visualizations: Display images of organs through skin and tissue mid-surgery.

Scenario 1 - Vital Signs

Suppose that you had special glasses and when you looked at a patient it showed you their vitals (e.g. current body temperature, pulse rate, respiration rate, and blood pressure). You can interact with the holograms, using tap gestures similar to a tablet. How would you feel about this?

More general: You are working at the Emergency Department, that's short staffed and admitted more patients than your team can handle. Suppose that you had special glasses and when you looked down the hall of all your patients, their basic information and vitals would be displayed beside each room, without having to walk to each room. You can interact with the holograms, using tap gestures similar to a tablet. How would you feel about this?



Suppose that you had special glasses and when you looked at a patient, all their medical history would be displayed and sorted based on the history type (e.g. allergies, illnesses, surgeries, immunizations). You can interact with the holograms, using tap gestures similar to a tablet. How would you feel about this?

Scenario 3 - Check Diagnostic Test Results

Suppose a doctor enters the patient's room, and when they look at the patient while wearing AR glasses they see a heads up display where they can use their hands to click on the holographic button. Once clicked they can view the patient's diagnostic results, where they can pull up the patients x-rays and CT scans, etc. The doctor then zooms into the diagnostic to get a better understanding.

Scenario 4 - Add notes

Suppose you were working a 24-hour long shift and taking care of dozens of patients. Instead of charting handwritten notes for each patient, you have AR glasses that display patient notes on your vision has the option to transcribe your audio notes into digital text notes. These text notes then would be attached to the patient's digital chart. These digital charts also include any notes made by your family physician and other specialists.

Scenario 5 - To Do List

Suppose a doctor or nurse needs to give the patient certain medication over a period of time. They view the patient with their AR glasses and adds a virtual note that displays the necessary tasks to be done when checking up on a patient.. Later in the day a nurse enters the room and sees that there is a virtual note saying give certain dose of medication.

How would you feel about having access to a product that performs this?

Scenario 6 - Security Clearance

Suppose your unit just had an outbreak of COVID-19 and management has restricted access to your unit. There are no visitors allowed and only authorized hospital employees are allowed in. Suppose you had AR glasses that would scan any hospital employee's ID that would display their information and if they had clearance to visit the unit.

Scenario 7 - Get Visual Notifications

When doing a scheduled round of patient check ups, you finish checking up on a patient but then shortly after they press the assistance button on their bed. Since you recently checked up on them, you don't expect them to require assistance at the moment so you don't see their room light switch on.

Suppose that you were wearing AR glasses that would display a notification on your vision to make you aware that the patient requires your assistance.

Scenario 8 - Surgery 3D Visualization

In a surgical procedure where you have a limited view/image of what the problem area is (injury, blockage, more medical problems); imagine that you have a pair of AR glasses that help you visualize the problem area as a 3D hologram. You are able to interact with the model by rotating it to view it from a different angle. You can zoom in on the model and/or take it apart into different pieces to see more details about the model.