CPSC 481 – Fall 2019 University of Calgary

**Task Centered Design Walkthrough Template**

**Modify the design to suit your report formatting style if needed. Add as many pages as you need (you probably will need few pages for each task).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description of task step | Does user have training or knowledge to do this step? | Is it believable that they would do it? | are they motivated? | Comments (including possible solutions) |
| **Login Screen Task**  The login in task would have user's login in by scanning their doctor’s ID | Yes | **Yes** | **Yes** | This function is designed intuitively with instructions on the screen any user would be able to do so. In addition, users must use this function if they wish to gain access into the system. |
| **Scanning patient ID**  Gaining access to a patient’s information will require users to go into the cARe icon and select the scan patient option. Once clicked, the screen displays a frame which has instructions to scan the patient’s ID (which are their hospital wrist bands). Users can also choose to input the user ID using the HoloLens keyboard. Once inputted, all patient information will be displayed until a new patient is scanned or the user gestures the clear function. | Yes | **Yes** | **Yes** | They would have similar knowledge because the system is like scanning and typing on a phone. We believe that they would use it and are motivated to do so because otherwise there would be no use for the system, and they would not be able to gain access to the patient’s information through the system. |
| **Viewing Patient History** Once patient ID has been scanned a patient ID card would be displayed in the top right-hand corner. In its smaller form it would display essential information such as name, date of birth, age, reason for staying, date of admission. The user can then drag the ID card to the center of the screen where it would then expand and show everything including their medical history, such as previous visits, allergies, and other health problems. The user can the drag the ID card back into the corner to minimize the ID card. | Potentially | **Yes** | **Yes** | It is possible after one tutorial that users would understand how to do it. This is because a swiping function is similar to organizing a tablet. User would use this function because it is the only way to gain access to patient medical history. |
| **Vitals task**  For this task, a user will need to click on the heart symbol on the right-hand side. Once clicked, the screen would display all vitals (heart rate, temperature, respiration, blood pressure, and blood oxygen level) anchored to the patient. The user with a hand swipe to move the displays to the left-hand side. The user can select the different vitals to view previous readings. | Potentially | **Yes** | **Yes** | The used may intuitively know that the heart sign is for vital, however the swiping motion would have to be taught at least once. In addition, they would use this function because it is the only way to view vitals. |
| **3D Surgery**  This task allows users to simulate a surgery using AR technology, to gain access they would use the care menu and click 3D surgery. | **No** | **Potentially** | **No** | We believe that this function is less likely to be used, and difficult to use. Therefore, we believe it to be out of our scope. |
| **Security**  This task allows users to verify if certain individuals have clearance to be in certain areas. | **Potentially** | **Potentially** | **Potentially** | This function would be nice to have however not many doctors would have a use for it. Security guard would need it more. Therefore, we believe it to be out of our scope. |
| **Diagnostic Test Results**  This task allows users to check different test results and imaging such as blood tests, X-rays, and MRIs. The users would need to click the test result icon (which is the stethoscope). After a menu bar would appear on screen where they may select which test, they would like to view. After, they click a test it will open a secondary menu that would show all their tests, old and new. Only available tests are shown. Once they click on the desired test it would appear in the view. Users can have only one set of results displaying at a time. In the test images, the users may add circles indicating an area of concern. They can declare the level of concern by adding a yellow/moderate circle or a red/severe circle. It can also have a description attached to it. To do so they must drag and drop a circle and a keyboard will popup so the user can type their notes. User has the option to cancel typing the note. There will also be a back button on the left-hand side where users can click to exit the test result display. | Potentially | **Yes** | Potentially | It is possible after one tutorial that users would understand how to do it. This is because all functions are simple, however the addition of the circles aren’t completely intuitive until shown. User would use this function because it is the only way to gain access to any imaging and test results in the system. |
| **Add Notes**  This task would allow users to add notes correlated to the patient currently being viewed. To use notes they must go into Notes (which is the pencil icon) then select the notepad icon. In addition, there can be multiple notes and users can add notes too. | Yes | **Yes** | **Yes** | This function is similar to adding notes for many common UI’s so it’s likely users would have experience. It is similar to writing on a notepad, and users would use this function when needing to write any sorts of notes. |
| **To-Do List**  This task would allow users to add elements into a to-do list that is correlated to the patient currently being viewed. If a patient is not being viewed, the to-do list is associated to the user. To use the to-do list they must go into Notes (which is the pencil icon) then select the check box icon. In addition, in to-do list there can be multiple tasks and the user may add more tasks by clicking the plus icon. | Yes | **Yes** | **Yes** | Yes, the user would have knowledge of using this task because it is similar to adding notes or making a checklist. It is easy for the user to tell which tasks have been completed, since filled in means done and empty box shows it's not finished yet. We believe they would use and are motivated to use it because it allows users to be organized and it is the only way to create a checklist in our system. |
| **Visual Notifications**  On the top left-hand corner notifications will be displayed then gradually disappear. There is max two notifications on the screen at a time. Unless the user toggles the view notification switch on the top left corner which would then display all notifications with a similar layout as a phone notifications center. Both notifications are translucent. | Yes | **Yes** | **Yes** | Users would know how to use this because it is similar to a phone application layout and there is a title that indicates what the toggle switch does. As well as users would use this because it is the only way to get notifications in the system and view older ones. |