To: Dr. Hayes

From: Cole Terrell, Bryce Kushner, Shelby Stocker, and Sam McCauley

Subject: User Stories for Real-time Tele-Medicine in Ophthalmology

Date: 9/20/19

Below are the user stories and acceptance criteria for our project. We compiled these user stories following a meeting with Dr. Higgins and Mr. Vora.

|  |  |  |  |
| --- | --- | --- | --- |
| User Stories | Done Well | Needs Improvement | Failure to complete |
| *As a primary physician in an ophthalmology clinic, I need a digital replacement for the optical portion of the slit lamp, so that I may view a patient’s eyes on a mobile device or through a VR viewer in 4k resolution.* | Stereoscopic image in the desired 4k resolution is streamed from the slit lamp mounted cameras to the primary physician’s viewing device with negligible latency (real-time). | Stereoscopic image in lower than the desired 4k resolution is streamed from the slit lamp mounted cameras to the primary physician’s viewing device. OR non-negligible latency is present with 4k resolution. | No image is streamed from the slit lamp mounted cameras to the primary physician’s viewing device. |
| *As a remote-located ophthalmologist I need a real-time, 4k resolution stream of a patient’s eyes via network connection so that I may provide valuable insight to the primary physician/resident.* | Stereoscopic image in the desired 4k resolution is streamed from the slit lamp mounted cameras to the remote physician’s viewing device via network connection with negligible latency (real-time). | Stereoscopic image in lower than the desired 4k resolution is streamed from the slit lamp mounted cameras to the remote physician’s viewing device via network connection. OR non-negligible latency is present with 4k resolution. | No image is streamed from the slit lamp mounted cameras to the remote physician’s viewing device. |
| *As a primary physician in an ophthalmology clinic, I need to be able to record the streamed image from the slit lamp mounted cameras so that I may review it later or send it to other physicians/students for review/educational purposes.* | Stereoscopic image in the desired 4k resolution is recorded and stored in a portable format for later review. | Stereoscopic image in lower than the desired 4k resolution is recorded and stored in a portable format for later review. | No image is recorded for later use. |