Project Title: A Gesture-based Tool for Sterile Browsing of Radiology Image Project Design Phase-I - Solution Fit Template

Surgeons, Doctors and Patients

Multiple hands detected within same frames Wearable devices can be used to detect hand gestures

Connectivity issues between devices Voice commands can be used to manipulate radiology

Inconsistency in focus and concentration of surgeon images

Availability of devices Manually manipulating radiology images



Monitoring patients scan images Background noise When the customer is not aware or unclear about the

Restricting the operations performed on images Difficulty in maintaining sterility gestures provided as an input in an effective manner

Maintaining sterility Inability to handle various images by manual in order to get the desired accuracy

key press



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **3. TRIGGERS TR**  What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efﬁcient solution in the news.  The need to switch between patient and device is not required  Ease of equipment interaction during surgery | **10. YOUR SOLUTION SL**  If you are working on an existing business, write down your current solution ﬁrst, ﬁll in the canvas, and check how much it ﬁts reality.  If you are working on a new business proposition, then keep it blank until you ﬁll in the canvas and come up with a solution that ﬁts within customer limitations, solves a problem and matches customer behaviour.  To make use of hand gestures to manipulate radiology images  To maintain sterility during surgery  To make simple UI that manipulates the scan using hand gestures | 1. **CHANNELS of BEHAVIOUR CH**    1. **ONLINE**   What kind of actions do customers take online? Extract online channels from #7  Perform various image manipulation operations on the scan  during surgery and training periods   * 1. **OFFLINE**   What kind of actions do customers take ofﬂine? Extract ofﬂine channels from #7 and use them for customer development.  Perform image manipulation techniques on already available scans in database to train the AI model |  |
| **4. EMOTIONS: BEFORE / AFTER EM**  How do customers feel when they face a problem or a job and afterwards?  i.e. lost, insecure > conﬁdent, in control - use it in your communication strategy & design.  **Before:** To move away from patients and towards the devices  for manipulating the scans  **After:** Easy to focus and concentrate on the surgery without  the need to switch between patients and device for  manipulating the scans |