

Project Design Phase-I – Problem Solution Fit

PROJECT TITLE : A Gesture-based Tool for Sterile Browsing of Radiology Images

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Our customers are Doctors especially Surgeons.	6. CUSTOMER CONSTRAINTS CC The things which prevents customer from taking any actions are, First of all they are all medical professionals and they lack engineering skills so they tend to think this is the best they got and they have to bear with it. Secondly, they think it requires higher cost but in reality it is cheaper	5. AVAILABLE SOLUTIONS AS The Surgeon will employ another person like his assistant to to change the pictures while he is performing Surgery	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P Surgeons are using their hands to browse through the radiology images such as MRI or videos. This led to problems like risk of infection, not being able to concentrate or time consuming	9. PROBLEM ROOT CAUSE RC This problem exists because of the problems of the doctors weren't heard much by the society	7. BEHAVIOUR BE The Surgeons will sometimes employ his assistant to adjust the radiology images. The surgeon will give him command to operate while he is performing a surgery, which is not efficient	
	Focus on J&P, tap into BE, understand RC	Focus on J&P, tap into BE, understand RC	Focus on J&P, tap into BE, understand RC	

IDENTIFY STRONG TR & EM	3. TRIGGERS TR Seeing how much less it costs and Knowing how much time and effort it saves while performing a lifesaving act will triggers the customers	10. OUR SOLUTION SL Our solution is to design a gesture based tool for browsing. The surgeon only has to show his hand gestures and the machine will detect the hand gestures and change the images accordingly.	8. CHANNELS of BEHAVIOUR CH 8.1 ONLINE They post it on online forums for solutions or they create a thread on social medias like reddit or quora or twitter. 8.2 OFFLINE They express their frustrations to other people	IDENTIFY STRONG TR & EM
	4. EMOTIONS: BEFORE / AFTER EM 4.3 BEFORE Frustration, Angry, worried about the patient. 4.3 AFTER Feeling satisfaction, Getting full concentration on the job			