

## Deliverable B: Needs Identification and Problem Statement

### Introduction:

The customer needs a virtual reality program that can have videos of medical operations easily uploaded into the program with the purpose of preparing patients for the actual medical procedure. To solve this problem we will build an interface that the hospital can use with their virtual reality headset to play V.R. procedure simulations in order to prepare the patients. The clients statements have been interpreted into needs and prioritized, and benchmarking has been done to compare other Virtual Reality software to Unity.

### Customer statement and problem interpretation:

Statement	Interpreted
This program is used by both English speakers and French speakers and the patients who have listening problem	Program should be bilingual: English / French.  Program should include text box / subtitles.
This program will be used by patients of all ages	Program should be easy to use.  Different scenes for distinct ages.
Patients may want to skip or replay some parts of the video	A user interface should be included to control the program for both patients and doctors.  Patients should be able to choose their video clip.
Some people can get uncomfortable with virtual reality	Program should include disclaimers.  The patient can quickly exit if needed.

Identifying Priority: 1-least important 5-most important

Needs	Importance
Program is bilingual : English / French	5
Program is easy to use	5
Program includes text box/ subtitles	5
The patient and doctor can control the experience (skip option, pause, rewind/fast forward), patients are able to choose their video clip	4
Program includes disclaimers	2
The patient can quickly exit if uncomfortable	3
Different scenes for different ages	2
Product is low cost	3

#### Problem Statement:

A virtual reality program for patients to easily understand the medical operations and actual procedure with a video that is bilingual, easy to use and include subtitles.

#### Conclusion:

Overall, we will build an interface of a virtual reality program where it will be easy to upload videos for the hospital. The patients will be able to use the VR goggles and have a better experience to understand and prepare for their actual medical procedure. It will also be bilingual (English and French), easy to control for both hospital workers and patients, and include subtitles for patients who have trouble hearing..