

# Criterion A - Planning

## Problem Statement

The problem is choosing computer parts for the VR system and not knowing whether it would be compatible or not.

Word Count: 20

## Description of Scenario

Mod Yensuang is a student in International School Bangkok and he leads the Virtual Reality Department. When building a new Virtual Reality system, both of them find it a hassle to go research on how “future proof” are the systems and research every part of the system including CPU, GPU, and RAM. Mr. Yensuang finds it better if there’s an all in one program for them as it will reduce the amount of hassle needed to research. For example, Mr. Yensuang stated in my initial interview with him when I asked whether it is to have a program that checks how future proof the systems are without researching it, he said: “It would save us a lot of time and be very convenient”<sup>1</sup>.

Word Count: 123

## The rationale for the Proposed Product

I decided to write a program using a programming language, rather than a website because the solution to this IA is that the program can be run in multiple systems for easier accessibility and just a quick, simple and no hassle program generally. In the program, it will have a user-friendly GUI and it will let the user input their initial choices with the suggested choices available in the program and the program will filter out computer parts depending on the budget they chose in the initial choices. Mr. Yensuang stated that it would be less of a hassle wanted a program that checks out if the proposed VR system is “bang for the buck” and lasts for a long time<sup>2</sup> when he stated it at the end of the interview<sup>3</sup> the language program that I will be using is Java, because

- I'm familiar with it
- It runs on many platforms
- It is an open-sourced language program
- It has a good development environment

Word: 142

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<sup>1</sup> Mod Yensuang, interview by author, Bangkok, November 19, 2019, Question 3, Appendix 1

<sup>2</sup> Mod Yensuang, interview by author, Bangkok, November 19, 2019, Question 4, Appendix 1

<sup>3</sup> Mod Yensuang, interview by author, Bangkok, November 19, 2019, Question 4 Appendix 1

# Prototype of the product:

Information Specifications Extra-Details

Fill out the initial information:

+ Information for each part  
← why is Intel better than AMD or vice versa?

CPU  Intel  AMD

CPU Cooler  Stock  Heatsink  Water-cooled

GPU  NVIDIA  AMD

Storage  M.2  SSD  Hard Drive

Budget  Low-End  Medium-End  High-End

Next button...

Information Specifications Extra-Details

Components: Selection: Like the drop down menu here, since there are more options.

CPU Choose A CPU

CPU Cooler Choose a CPU Cooler

GPU Choose a GPU

Motherboard Choose a motherboard

Storage <sup>Information of each component.</sup> Choose a storage

Case <sup>Info</sup> Choose a Case

Power Supply Choose a Power Supply

Save Cancel

Save and continue to next...

Benchmarks?

Cost of CPU:

Cost of CPU Cooler:

Cost of GPU:

Cost of Motherboard:

Cost of Storage:

Cost of Case:

Cost of Power Supply

Total:

Add part name

Add button to change part... (go back).

Export to file...

## Success criteria for product:

### A) What the program will do

- The user will create a list of system components and the program will review how “future proof” it is, is it VR compatible, an estimated amount of wattage needed and the budget of the system

### B) User-friendly features

- Recommendation button in the Initial Choices tab
- Each choice will have a short explanation on why it is better than the other
- Straightforward program

### C) Error/exception handling

- If the user leaves out a choice in the Information tab or the Specifications tab, the program will give out an error.

## Pictures of the interviews:

