

## **Project Proposal**

Project Title: Portable Devices Purchase Helper

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### **Overview**

This project aims to build a purchase guiding system that helps potential customers search, compare and choose a most fit portable device.

In modern days, people spend more and more time on their portable devices than a PC. The market share of portable devices is growing fast, and so many companies have participated in this area by launching their creative products. These devices have different target customers and emphasis on certain parameters. Therefore, it may be an issue for customers who don't have much knowledge on electronic devices but want to purchase one that meets their needs. Our app is developed to resolve such difficulty by providing a clear and simple interface. All users need to do is to input their demands and the app will give a list of devices and intuitive comparisons among them, so that users can weight their options upon our results.

The app is designed for mobile platform because its purpose is to give users an intuitive comparison among several devices on technical parameters while they are at a shop browsing devices, or simply because it's easier to use than opening a browser on a PC.

## Functional Properties

1. Search function
  - 1.1 Sort by various criteria such as price
2. Comparison
3. Display results containing pros/cons

When users open our app, an interface with buttons of above functionalities will show up.

If users choose search function, they will be asked to input one or more basic demands or preferences. Then a list of devices that meet the criteria will be outputted. Users can further sort the results in certain order by using drop-box implemented. The order can be ascending or descending based on price, one of the parameter, etc.

At this point, users will be looking at several choices that are almost equally good and want to obtain a full comparison among them. This app allows them to add candidate devices to a compare list. Once a compare list has been constructed, a comparison can be conducted by simply touch on the compare button. A full detailed compare summary will be exhibited to users.

The full detailed comparison will contain all rows where each row is one of the parameter. Users can configure to show only a subset of all parameters that interests them. Beyond that, pros and cons among devices will also be highlighted so that users can have a very intuitive feeling for candidate devices and make their final decisions with ease.

## Non-functional Properties

1. A User Agreement
2. A guide for how to use this app

A user agreement will include information such as intellectual properties, exception clauses, etc. It is necessary because all resources and information are obtained from online public sources, by agreeing to such an agreement can make sure there will not be any legal disputes.

A simple guide will be provided to show users how to use this app after the agreement. Users who need this app to weigh their choices are also probably not very proficient in using apps. A simple guide can help them have an idea of all functionalities of this app in a short time without exploring by themselves.