Public Cloud Cost Visualizer Requirements

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1 Introduction:

The Cloud computing technology is a paradigm that refers to storing, handling and maintaining applications by making use of remote servers and most often, the internet.
The interests of this expanding technology are vast and have attracted an abundance of attention in the past 12 years.
The idea of having access to applications without having to acquire hardware such as personal devices or local servers, together with the flexibility of being able to access your work everywhere and the possibility of recovery in case of an hardware accident, are what make this technology so popular.
However, the practice of cloud computing can seem somewhat intimidating and confusing for individuals with little or even medium knowledge in this subject.
This comes as a result of multiple cloud services offered by different providers each of them having various costs and bundles depending on multiple factors such as the type of subscription, the number of services requested, the memory requirements etc .
With this project we strive to provide a means of visualizing all these options in an user friendly environment , easily customizable and overall efficacious in showing the user what the best options for his specific needs are as well as offering the possibility of in depth inspection of each of the provided alternatives.
The end product should be able to transform the puzzling world of cloud computing into an effortless visual representation accessible to users with various kinds of prior knowledge.

2 Target Users:

The product should be aimed at users inexperienced with cloud computing who only know what it is and that what they would want it for, but also at more advanced users who know exactly what kind of services they are looking for and want to quickly and easily visualize their costs.
To put it in a nutshell, this product is aimed to be moulded in such a way that it could meet the needs of any kind of user interested in cloud computing.

3 Features:

- A responsive environment.
- Easy to use.
- Drag and drop inputs.
- A possibility for advanced options and inputs.
- Clear output representation, with the help of graphs.
- Easy comparisons of the outputs.
- Search functionality.
- Categorical selection.

4 Critical:

The user should be able to offer the least amount of input in order for the application to generate results.
The application should have more advanced functionality that should provide in depth view on an individual provider.
Users should be able to find cloud service offerings and determine their cost over a specified time

period based on a default profile or based on an advanced one. The default profile should be a good profile for the average user.
Users should be able to select offerings by dragging them onto some part of the screen, after which the offering should be included in calculations.
The price approximation should be visualized clearly, including the ability to see the price change over time and the cost difference between different cloud products.

5 Important:

The product should be a web app that also functions offline after it has been downloaded.

6 Useful:

The application doesn't need to have all cloud computing providers, however, the more the better. It should at least have CloudIBn, AWS, Google and Azure as providers.
Users should be able to export generated configurations.

7 Not implemented:

Store profiles for users and let them access these profiles using personal log-in information.
Let users recreate profiles that they made by entering a code or using a small save file stored on their computer.
Show all of the existing providers .

8 Non-functional requirements :

The application should perform well. It should not be slow enough to make users think it has crashed.
Using the application should feel intuitive for new users, regardless of their knowledge on cloud computing.