Maintenance Plan

Requirements

Our project is a web application and only basic hosting capabilities are required at the moment. We chose to use Dreamhost because it was the cheapest option and offered the specs and requirements we were looking for. The cost for Dreamhost is $6.95 a month.

Cost to host site

Cost per month	Duration	Total
$ 6.95	x 12	$ 83.4

As the web app begins to attract users, we will upgrade to move the calculations from Javascript to a server. If we are satisfied so far with Dreamhost, they offer a great solution for $279 per month that comes with a 12-core Xeon processor with 16 GB of RAM with a 240 GB SSD (or 2TB HDD) and no bandwidth limit.

Server cost

Cost per month	Duration	Total
$ 279	x 12	$ 3,348

Something else we are looking to develop if our initial website is a success is a mobile app. One of the reasons we initially wanted to develop this project and include the Bernoulli's equation calculations was because currently there is no easy or user-friendly way for any student with a macbook to run the necessary software to calculate Bernoulli's equation on their computer. The software that exists is heavily biased toward Windows users and does not have a stable Mac version.

We would start by developing an android app, since it has a one-time developer fee, and use the profit to pay for an Apple Developer Membership. Developing an app would continue to increase usability for students, including those with macbooks. One membership for the Apple Developer Program allows you to be able to create an app for any Apple device, including iPhone, iPad, Mac, Apple Watch, Apple TV, and iMessage.

Mobile App Development Costs

Item/summary	Cost	Duration	Total
Google Developer Account	$25 flat fee	—	$0
Apple Developer Program Membership	$99 per year	x 1	$99
Total			**$99**

We aim to promote our new apps to college students by contacting student organizations at each college. By using our status as college students to help get our message across on a more relatable level, we can try to spread it by word of

mouth at each campus. By doing this we minimize any incurred costs trying to promote our product, although it would end up taking up personal time. Later down the road, we could hire someone as a promotional product representative. According to ZipRecruiter, the average product sales representative makes $56, 328 a year. However, the rate in the Greater Kansas City area is $53, 906 a year.

We also will need to factor in the cost to maintain the site and any updates that need to occur. For this we will need to hire a developer. The median salary of a software developer in 2017 according to U.S. News is $101,790. However, in the Kansas City area, salaries are much lower than the national average. For example, Garmin pays about $81,000 for a software engineer annually, and Cerner about $76,000 (Glassdoor). Since we are located near Kansas City we should be able to hire and pay a developer around $78,000 for the first year and be competitive with other top Kansas City company's offers.
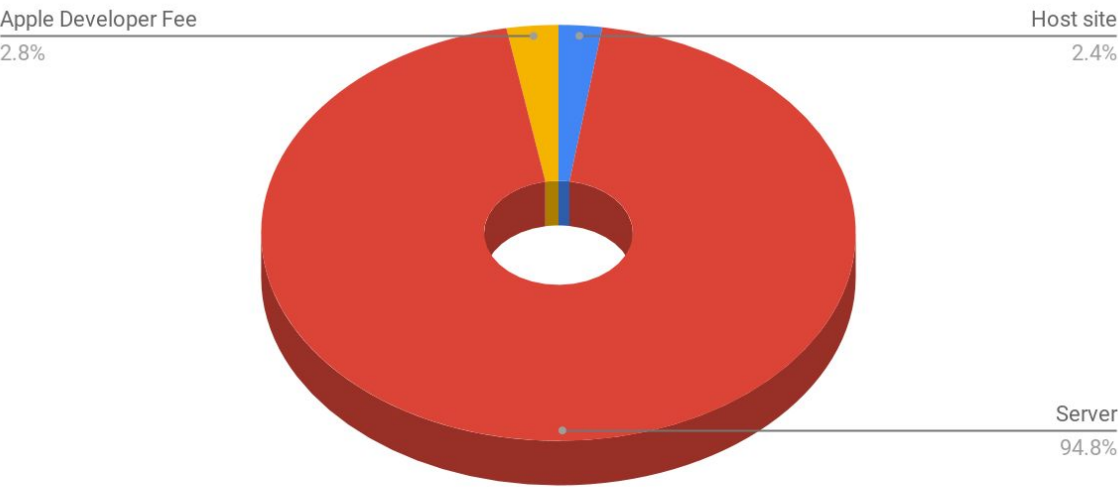
Total Labor Costs

Employee	*Salary*	*Total*
Product Representative	$53, 906	$53, 906
Software Developer	$78, 000	$78, 000
Total		**$131 ,906**

This makes labour our largest expense by far, however with a full time developer and product representative, we would be able to vastly expand our features and stability while promoting the product to students everywhere.
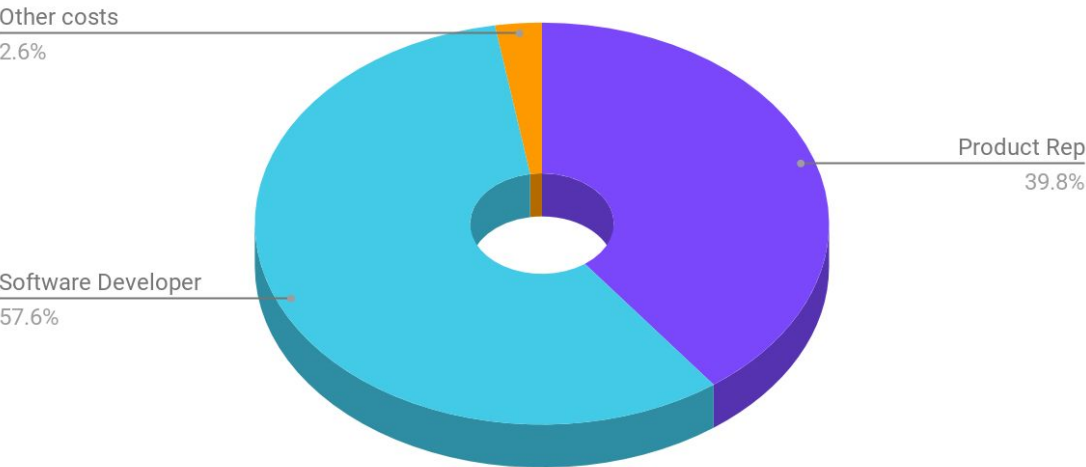
Grand Total Cost (for the first year)

Item	Cost	Amount/ duration	Total
Host site with Dreamhost	$ 6.95 per month	x 12 months	$83.40
Dreamhost server	$ 279 per month	x 12 months	$3,348
Google Developer Account	$25 flat fee	—	$0
Apple Developer Program Membership	$99 per year	x 1 year	$99
Product Representative	$53,906 annual salary	x 1 year	$53,906
Software Developer	$78,000 annual salary	x 1 year	$78,000
Grand Total			$135,436.40

Non-labor cost breakdown

Apple Developer Fee
2.8%

Host site
2.4%

Server
94.8%

Total cost breakdown

Other costs
2.6%

Product Rep
39.8%

Software Developer
57.6%

https://money.usnews.com/careers/best-jobs/software-developer/salary

https://www.glassdoor.com/Salaries/kansas-city-software-engineer-salary-SRCH_IL.0,11_IM437_KO12,29.htm

https://www.dreamhost.com/hosting/shared/

https://www.ziprecruiter.com/Salaries/Promotional-Products-Sales-Rep-Salary