**ECPI University**

**Cloud Solution:**

**“The Mobile-Cloud Ecosystem”**

**Lab 4**

**CIS 142**

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**Introduction**

“Mobi-Ready is a cloud hosted tool that allows developers, designers and marketers to test website performance on mobile devices.” This is a good site to develop a mobile friendly web application: benchmark score; technical detail, results, recommendations, visual of your site on multiple devices. In this lab, I have decided to test multiple sites that I expect to receive a good benchmark score, like *facebook.com*. Random blog from Mcafee that is using relatively new development: *https://www.skyhighnetworks.com/cloud-security-blog/top-10-cloud-collaboration-tools/.* Lastly, I want to test a very poor rated site with old web development style: http://www.gatesnfences.com/. My goal in this report to test each website and recognize the advantage of each site as a universal web platform, able to host its contents on a mobile platform.

**Facebook.com**

Facebook, surprisingly scored only a 3.58/5 on the Alexa Benchmark. This means that there are still some improvements that Facebook can make on a mobile platform. The page was weighted at 16KB, which is lower than expected. This is a good thing because the content is not heavy. 4 Major fails including ETag Support, 7 Minor fails which only include CSS and imaging. The recommendations provided by Mobi includes fixing the ETag support. Going into the recommendation support, Mobi suggest using caching to support faster page load time. Even though this is a good recommendation for sites in general, Facebook book only has minimum of 16KB of data to load, which is not that much on entry to the site. Maybe the internal Facebook, once logged in, is different from the welcome site. Looking at the visuals for the site, we see that Facebook displays pretty well on most devices except for the low-tier phone, which is not reasonably used anyway. I would say that Facebook is still a well-developed mobile platform.

[**https://www.skyhighnetworks.com/cloud-security-blog/top-10-cloud-collaboration-tools/**](https://www.skyhighnetworks.com/cloud-security-blog/top-10-cloud-collaboration-tools/)

This result was pretty interesting, the site scored 0.57/5 by the Alexa benchmark. The score claims that there are significant test failures that will directly impact the user. The page was weighted to be 15,424 KB, which is about 15MB. This is extremely large on the mobile platform. Most likely, this is due to the high-resolution pictures used on the site. Major Failures include: DOM too large, ETag Support, DNS Lookup & Caching. The suggestions for the Major fail only let the developer know how to consider the DOM object size when developing. Even with the major performance fails, the visual site on the vast devices do not look that bad.

[**http://www.gatesnfences.com/**](http://www.gatesnfences.com/)

This site surprisingly scored higher than the blog post, at 2.18/5. The test claims that there is room for improvements and failures were detected. The page took up 378KB of content, which is still acceptable level. The biggest Major fail of the site was Viewport Meta. Going into the suggestions, viewport meta tag is responsible to rendering different viewport sizes of the application. This makes sense because going into the visual, we see that the site does not retain its original content when changing screen sizes on different devices. We can clearly see that this site was not intended to be viewed from a mobile platform.

**Conclusion**

Overall, I think that Mobi is an interesting tool to consider for developing web - mobile applications. It includes visual & backend testing, content failures results. I think this a good tool to keep in mind when developing a mobile applications but not necessarily needed. I think some of the results displayed by Mobi can be over-looked but also, I would say that it includes some helpful tips on where to look for design and development flaws.

**References**

**(1)** Jamsa, K. (2013). *Cloud Computing: SaaS, PaaS, IaaS, Virtualization, Business Models, Mobile, Security, and More*. Burlington, MA.: Jones & Bartlett Learning.