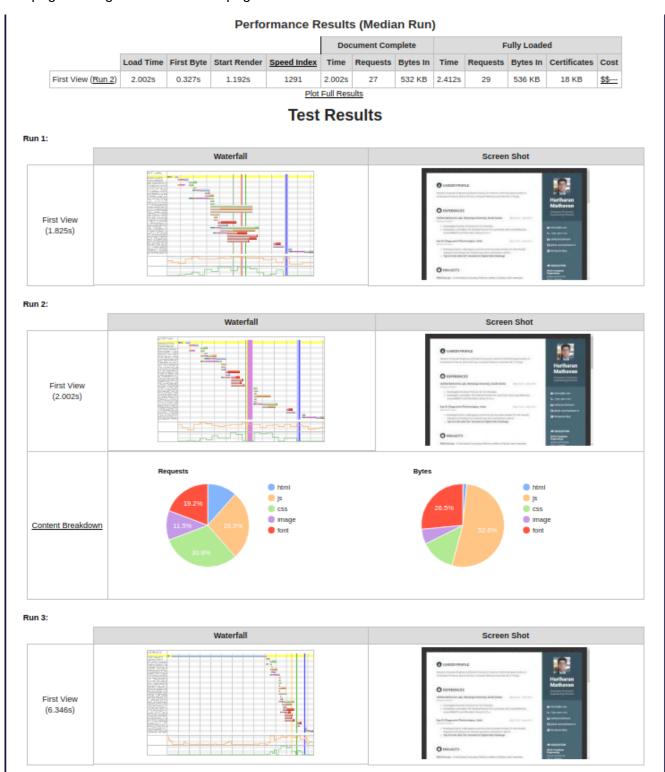
#### Part 1: Website

I had built a website as a part of my HomeWork #2 ( www.hariharanm.com ). I tested it using webpagetest.org 's automatic webpage tester.



It had scored alright on all aspects except browser caching. This means that a person who visits my website repeatedly will have to download almost everything every single time.

## Leverage browser caching of static assets: 39/100

```
FAILED - (No max-age or expires) - http://hariharanm.com/
FAILED - (No max-age or expires) - https://hariharanm.com/assets/images/profile.jpg
FAILED - (No max-age or expires) - https://hariharanm.com/favicon.ico
FAILED - (No max-age or expires) - https://friendlychat-e70c9.firebaseapp.com/scripts/main.js
FAILED - (No max-age or expires) - https://friendlychat-e70c9.firebaseapp.com/ /firebase/init.js
FAILED - (No max-age or expires) - https://hariharanm.com/assets/css/images/bg.png
FAILED - (No max-age or expires) - https://hariharanm.com/assets/plugins/bootstrap/css/bootstrap.min.css
FAILED - (No max-age or expires) - https://hariharanm.com/assets/plugins/font-awesome/fonts/fontawesome-webfont.woff2?v=4.7.0
FAILED - (No max-age or expires) - https://hariharanm.com/assets/js/main.js
FAILED - (No max-age or expires) - https://hariharanm.com/assets/plugins/bootstrap/js/bootstrap.min.js
FAILED - (No max-age or expires) - https://hariharanm.com/assets/plugins/jquery-1.11.3.min.js
FAILED - (No max-age or expires) - https://hariharanm.com/assets/css/styles.css
FAILED - (No max-age or expires) - https://hariharanm.com/assets/plugins/font-awesome/css/font-awesome.css
FAILED - (No max-age or expires) - https://friendlychat-e70c9.firebaseio.com/.ws?v=5
WARNING - (60.0 minutes) - https://friendlychat-e70c9.firebaseapp.com/
WARNING - (60.0 minutes) - https://friendlychat-e70c9.firebaseapp.com/styles/main.css
WARNING - (60.0 minutes) - https://friendlychat-e70c9.firebaseapp.com/images/profile_placeholder.png
WARNING - (24.0 hours) - https://fonts.googleapis.com/css?family=Roboto:400,500,400italic,300italic,300,500italic,700,700italic,900,900italic
WARNING - (24.0 hours) - https://fonts.googleapis.com/icon?family=Material+Icons
WARNING - (24.0 hours) - https://fonts.googleapis.com/css?family=Roboto:regular,bold,italic,thin,light,bolditalic,black,medium&lang=en
```

I also found that I could have compressed my images to save a lot of bandwidth.

# Use gzip compression for transferring compressable responses: 81/100

272.2 KB total in compressible text, target size = 222.7 KB - potential savings = 49.5 KB

FAILED - (60.7 KB, compressed = 11.2 KB - savings of 49.5 KB) - https://code.getmdl.io/1.1.3/material.min.js

## Compress Images: 86/100

23.2 KB total in images, target size = 20.2 KB - potential savings = 3.0 KB

WARNING - (11.2 KB, compressed = 8.1 KB - savings of 3.0 KB) - https://hariharanm.com/assets/images/profile.jpg

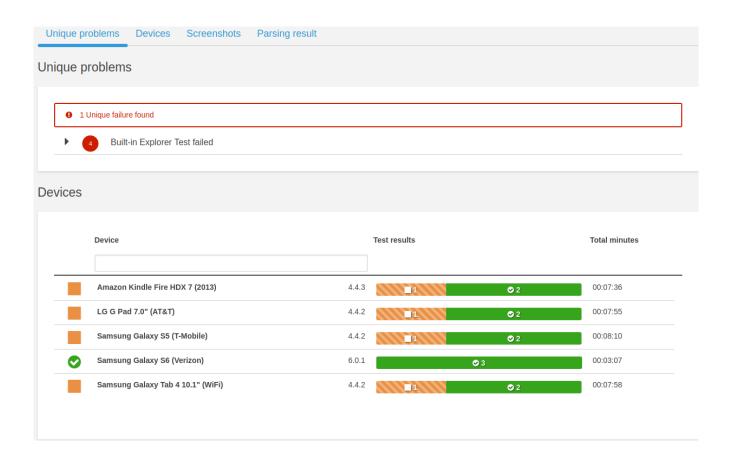
## Use Progressive JPEGs: 0/100

0.0 KB of a possible 11.2 KB (0%) were from progressive JPEG images

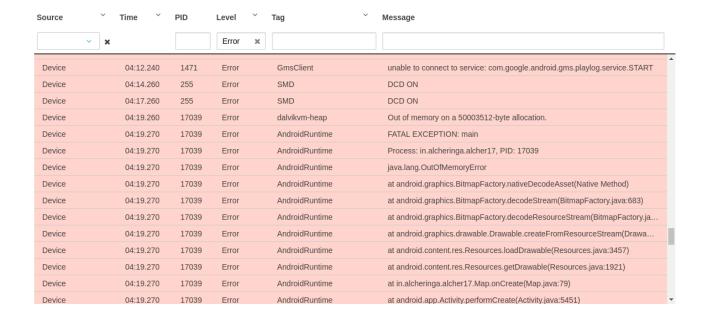
FAILED (11.2 KB) - https://hariharanm.com/assets/images/profile.jpg

### Part 2: Android App

I decided to use an app that I had built almost a year ago ( It is also on the play store <a href="https://play.google.com/store/apps/details?id=in.alcheringa.alcher17">https://play.google.com/store/apps/details?id=in.alcheringa.alcher17</a> ). This app is mostly static but contains a lot of images and animations. I decided to test whether the app can run properly on the top devices being used today.



It failed the Built-in File Explorer test for almost all the cases. So I decided to look into the logs to find out what the problem was.



This says that I had a problem with the drawable. After watching the video, I found that the issue was with the resolution of an image I had used for a map. The image was just too huge and when it was zoomed it gave an **OutOfMemoryError**.