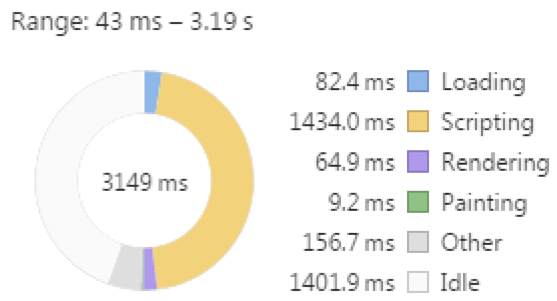
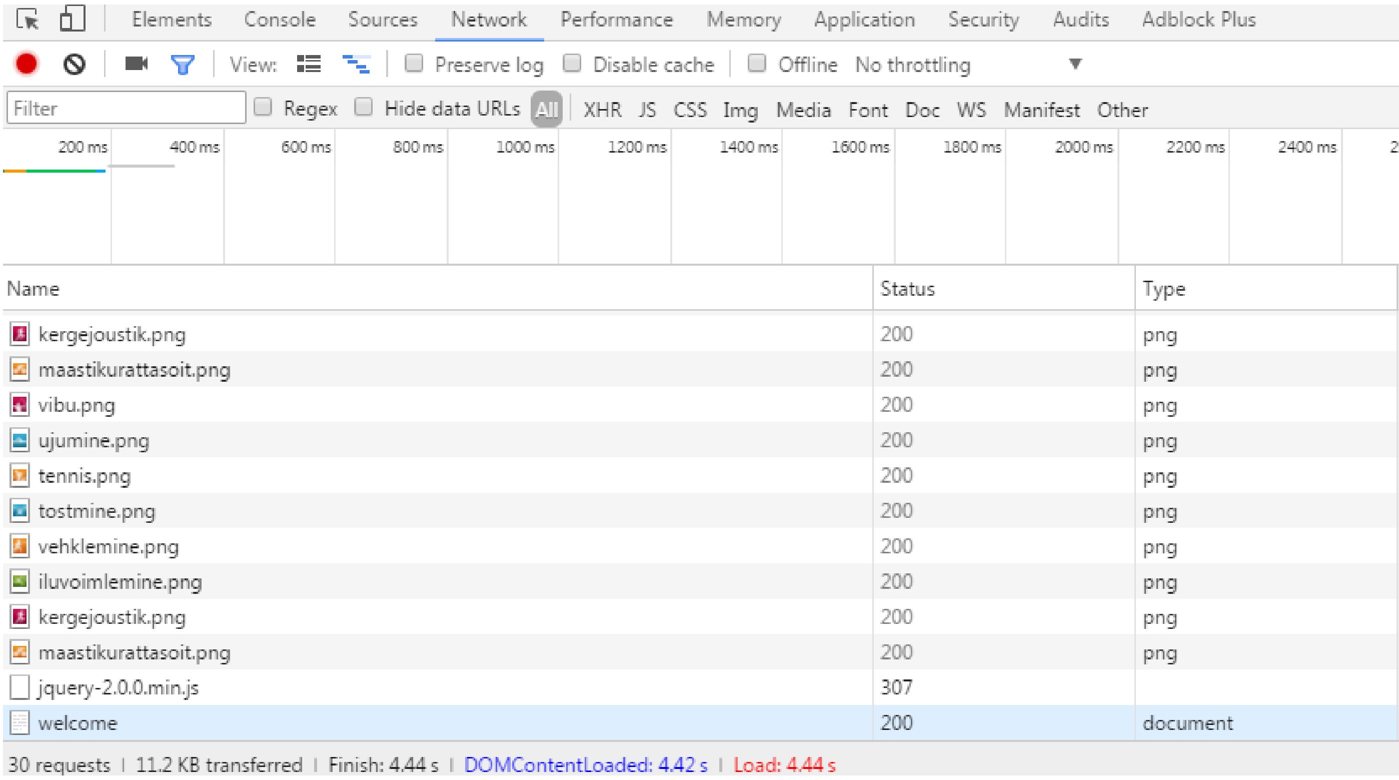
Optimeerimine

Algseis enne optimeerimist

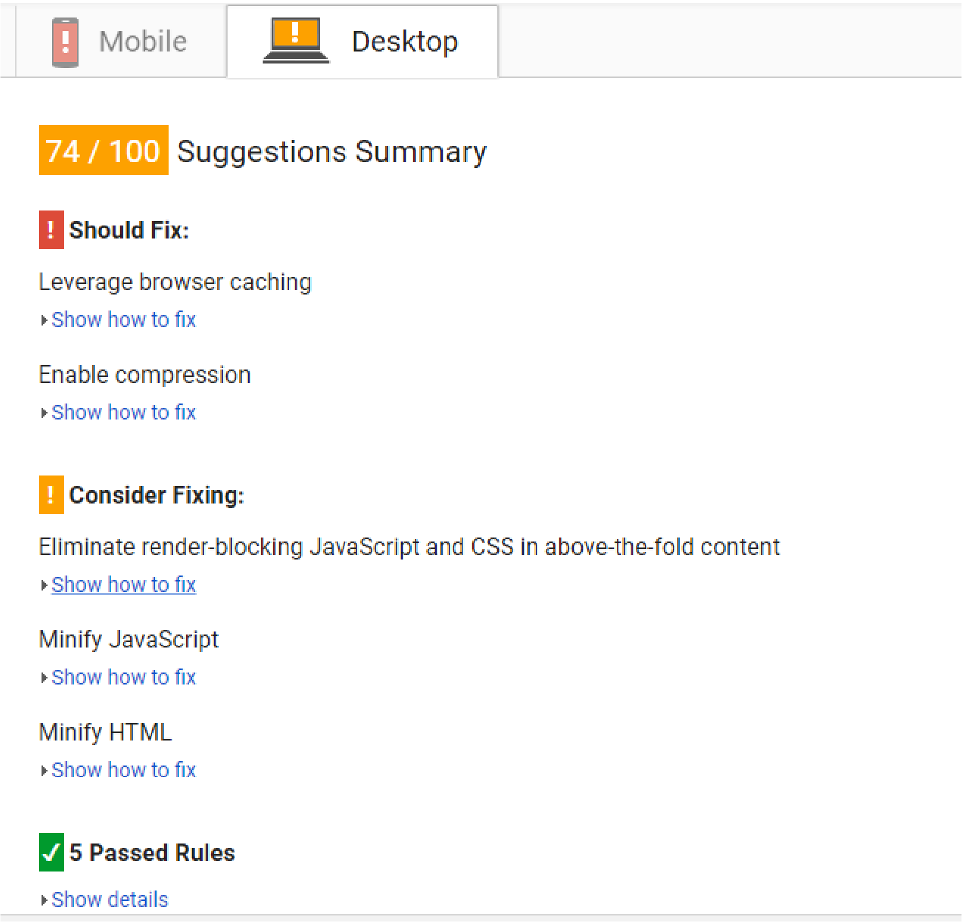

Range: 43 ms – 3.19 s

82.4 ms	🟦	Loading
1434.0 ms	🟨	Scripting
64.9 ms	🟪	Rendering
9.2 ms	🟩	Painting
156.7 ms	▨	Other
1401.9 ms	□	Idle



Name	Status	Type
kergejoustik.png	200	png
maastikurattasoit.png	200	png
vibu.png	200	png
ujumine.png	200	png
tennis.png	200	png
tostmine.png	200	png
vehklemine.png	200	png
iluvoimlemine.png	200	png
kergejoustik.png	200	png
maastikurattasoit.png	200	png
jquery-2.0.0.min.js	307	
welcome	200	document

30 requests | 11.2 KB transferred | Finish: 4.44 s | DOMContentLoaded: 4.42 s | Load: 4.44 s



74 / 100 Suggestions Summary

! Should Fix:

Leverage browser caching
▸ Show how to fix

Enable compression
▸ Show how to fix

! Consider Fixing:

Eliminate render-blocking JavaScript and CSS in above-the-fold content
▸ Show how to fix

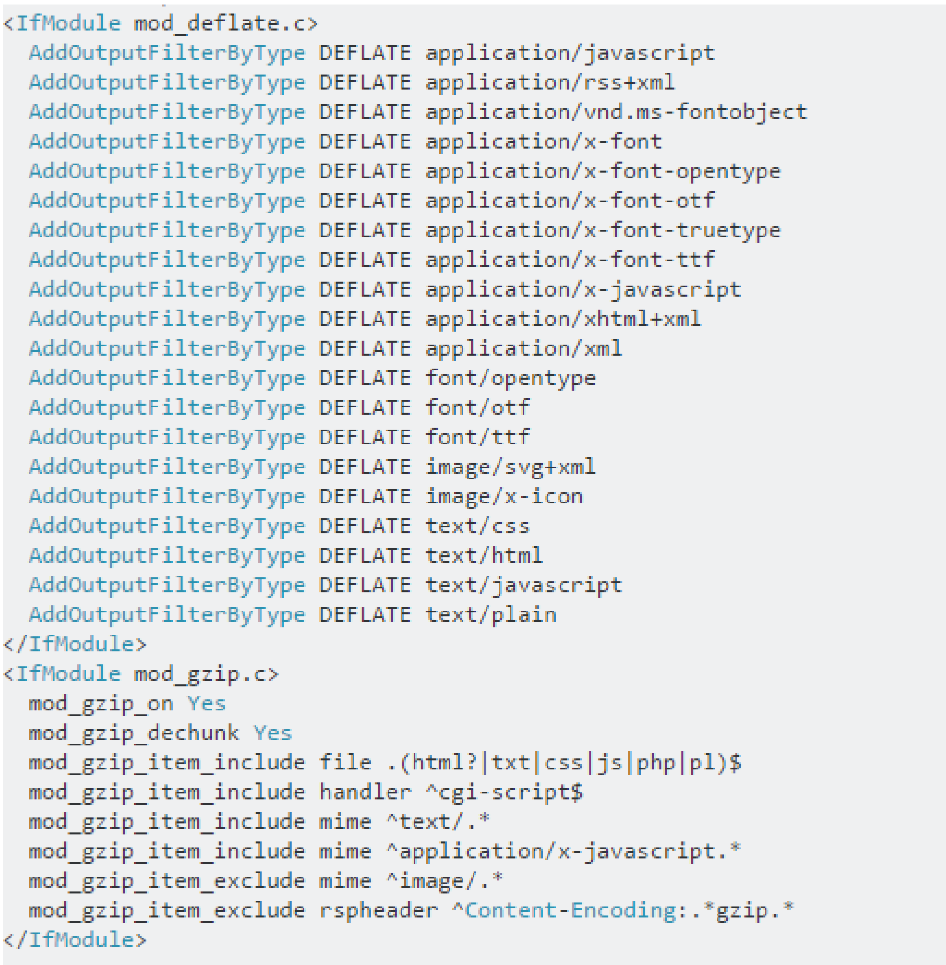
Minify JavaScript
▸ Show how to fix

Minify HTML
▸ Show how to fix

✓ 5 Passed Rules
▸ Show details

Failide kokkupakkimine

Et üle võrgu saadetaks vähem infot kliendi ja serveri vahel. Selle võimaldamiseks peaks .htaccess faili lisama järgneva koodi:

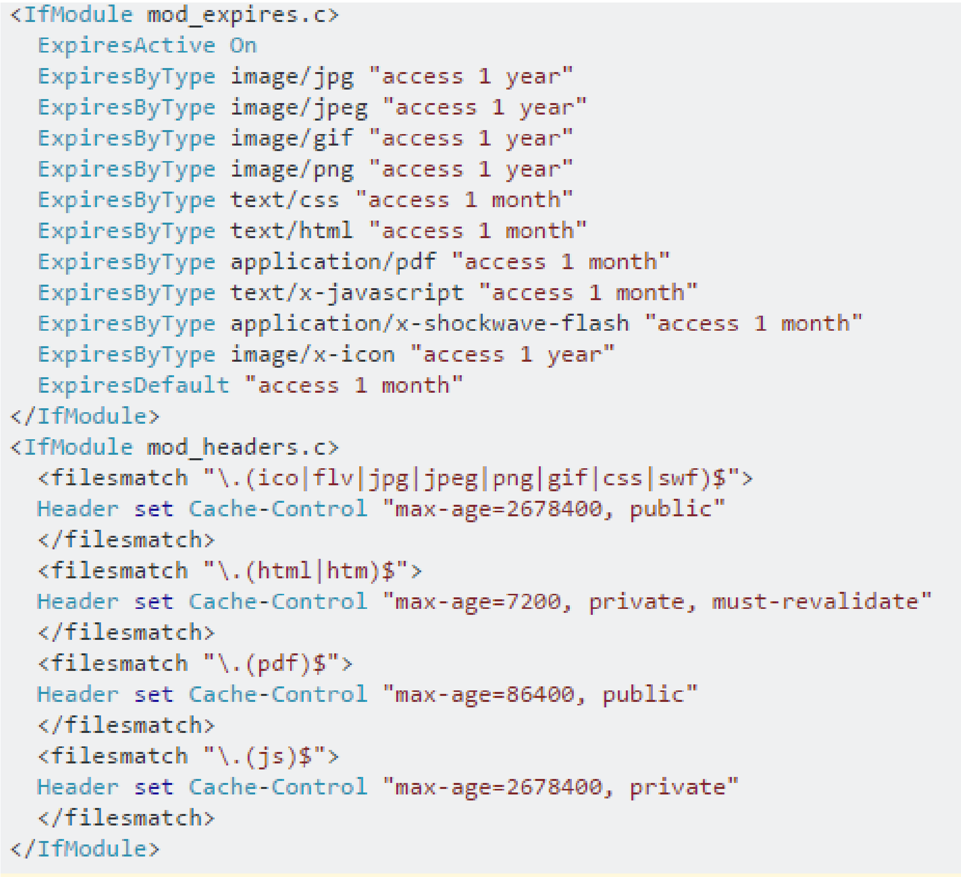


```
<IfModule mod_deflate.c>
  AddOutputFilterByType DEFLATE application/javascript
  AddOutputFilterByType DEFLATE application/rss+xml
  AddOutputFilterByType DEFLATE application/vnd.ms-fontobject
  AddOutputFilterByType DEFLATE application/x-font
  AddOutputFilterByType DEFLATE application/x-font-opentype
  AddOutputFilterByType DEFLATE application/x-font-otf
  AddOutputFilterByType DEFLATE application/x-font-truetype
  AddOutputFilterByType DEFLATE application/x-font-ttf
  AddOutputFilterByType DEFLATE application/x-javascript
  AddOutputFilterByType DEFLATE application/xhtml+xml
  AddOutputFilterByType DEFLATE application/xml
  AddOutputFilterByType DEFLATE font/opentype
  AddOutputFilterByType DEFLATE font/otf
  AddOutputFilterByType DEFLATE font/ttf
  AddOutputFilterByType DEFLATE image/svg+xml
  AddOutputFilterByType DEFLATE image/x-icon
  AddOutputFilterByType DEFLATE text/css
  AddOutputFilterByType DEFLATE text/html
  AddOutputFilterByType DEFLATE text/javascript
  AddOutputFilterByType DEFLATE text/plain
</IfModule>
<IfModule mod_gzip.c>
  mod_gzip_on Yes
  mod_gzip_dechunk Yes
  mod_gzip_item_include file .(html?|txt|css|js|php|pl)$
  mod_gzip_item_include handler ^cgi-script$
  mod_gzip_item_include mime ^text/.*
  mod_gzip_item_include mime ^application/x-javascript.*
  mod_gzip_item_exclude mime ^image/.*
  mod_gzip_item_exclude rspheader ^Content-Encoding:.*gzip.*
</IfModule>
```

Antud lahendus võeti kasutusele, kuna vähendas andmete saatmise hulka kliendi ja serveri vahel.

Failide riknemisaeg

Lisades statilistele failidele riknemis aja, muudab brauseri võtma faile diski pealt (kui need eksisteerivad) selle asemel, et failid saadetakse üle võrgu uuesti. Selle võimaldamiseks peaks .htaccess faili lisama järgneva koodi:

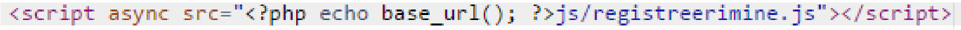


```
<IfModule mod_expires.c>
  ExpiresActive On
  ExpiresByType image/jpg "access 1 year"
  ExpiresByType image/jpeg "access 1 year"
  ExpiresByType image/gif "access 1 year"
  ExpiresByType image/png "access 1 year"
  ExpiresByType text/css "access 1 month"
  ExpiresByType text/html "access 1 month"
  ExpiresByType application/pdf "access 1 month"
  ExpiresByType text/x-javascript "access 1 month"
  ExpiresByType application/x-shockwave-flash "access 1 month"
  ExpiresByType image/x-icon "access 1 year"
  ExpiresDefault "access 1 month"
</IfModule>
<IfModule mod_headers.c>
  <filesmatch "\.(ico|flv|jpg|jpeg|png|gif|css|swf)$">
  Header set Cache-Control "max-age=2678400, public"
  </filesmatch>
  <filesmatch "\.(html|htm)$">
  Header set Cache-Control "max-age=7200, private, must-revalidate"
  </filesmatch>
  <filesmatch "\.(pdf)$">
  Header set Cache-Control "max-age=86400, public"
  </filesmatch>
  <filesmatch "\.(js)$">
  Header set Cache-Control "max-age=2678400, private"
  </filesmatch>
</IfModule>
```

Antud lahendus võeti kasutusele, kuna vähendas andmete saatmise hulka kliendi ja serveri vahel.

Javascripti failide üheaegne laadimine

See teeb lehe laadimise kiiremaks, kuna ei jääda ootama html failis ükshaaval javascripti failide laadimise järgi, vaid pannakse kõik javascripti failid korraga laadima. Selle saab saavutada lisades async skriptide laadimiste juurde, mis paneb need paralleelselt laadima. Näide:

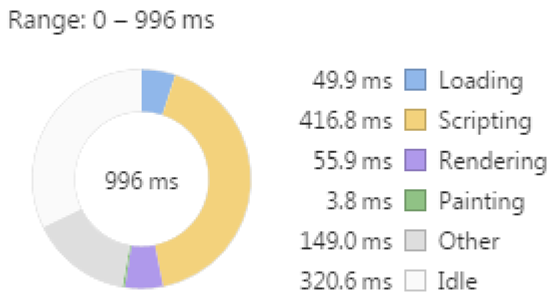


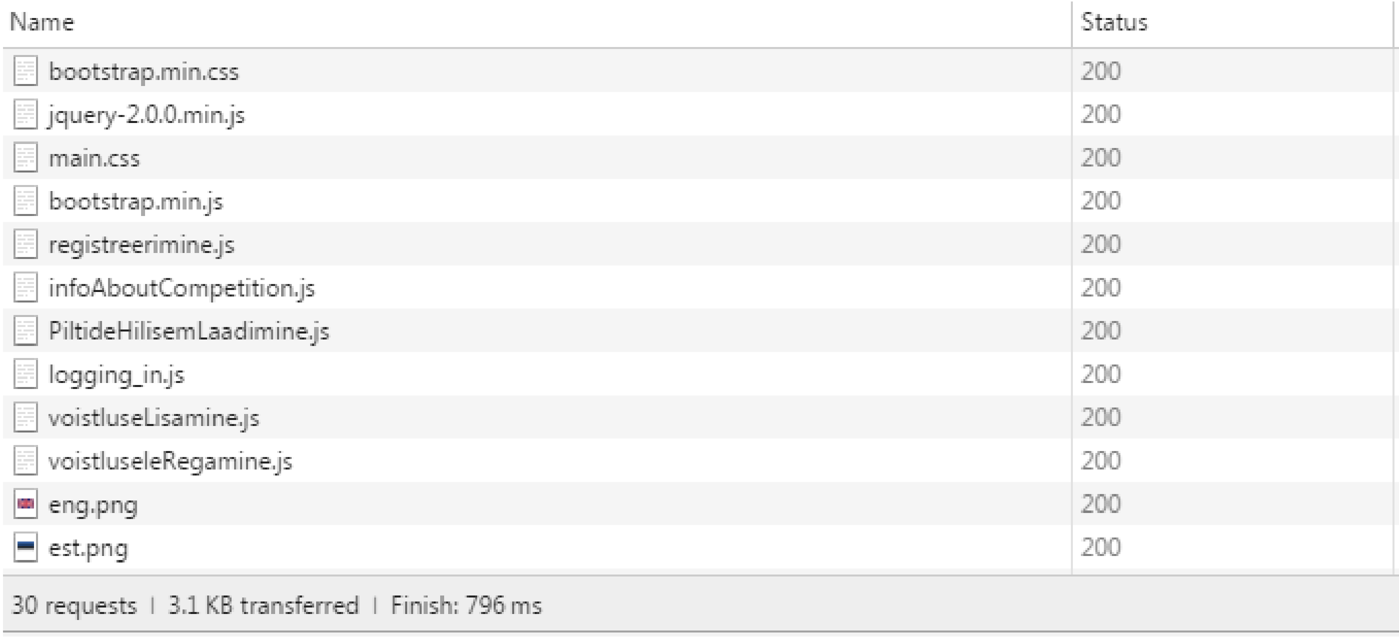
```
<script async src="<?php echo base_url(); ?>js/registreerimine.js"></script>
```

Antud lahendus ei võetud kasutusele, kuna sisselogimise aken läks katki kui laaditi skripte samaaegselt.

Lõppseisund pärast muutuste tegemist

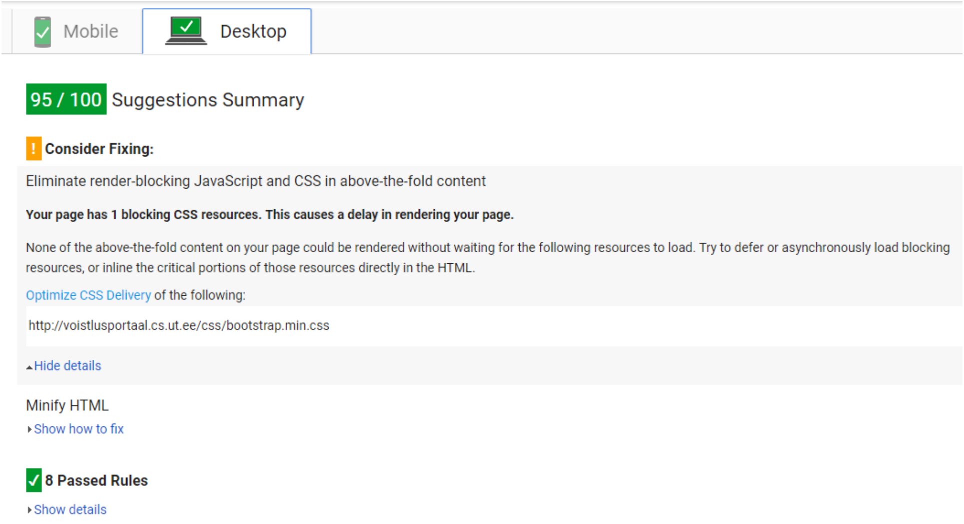
Lehe laadimisaeg vähenes 3 korda ja andmeid saadetakse kliendile lehe laadimisel 4 korda vähem.





Name	Status
bootstrap.min.css	200
jquery-2.0.0.min.js	200
main.css	200
bootstrap.min.js	200
registreerimine.js	200
infoAboutCompetition.js	200
PiltideHilisemLaadimine.js	200
logging_in.js	200
voistluseLisamine.js	200
voistluseleRegamine.js	200
eng.png	200
est.png	200

30 requests | 3.1 KB transferred | Finish: 796 ms



95 / 100 Suggestions Summary

! **Consider Fixing:**

Eliminate render-blocking JavaScript and CSS in above-the-fold content

Your page has 1 blocking CSS resources. This causes a delay in rendering your page.

None of the above-the-fold content on your page could be rendered without waiting for the following resources to load. Try to defer or asynchronously load blocking resources, or inline the critical portions of those resources directly in the HTML.

Optimize CSS Delivery of the following:

http://voistlusportaal.cs.ut.ee/css/bootstrap.min.css

▴Hide details

Minify HTML

▸Show how to fix

✓ **8 Passed Rules**

▸Show details