CSE 135 hw4 summary

Security:

• We put database username, password and md5 salt in a separate file, and make this file

private so that they are not visible to the public.

• We turned off directory browse in Apache to forbid others from look at our directory

structure. We check for session in every page to make sure they don't jump urls.

• Remote connection is turned off for to secure the database.

• We check the format of every single form to ensure they don't include invalid characters

like quotes, script tags, ect to prevent sql injections and scripts in website.

• And mimetype of files uploaded by the users were checked so that the filename is

consistent with the mimetype.

• we do urlencode on soubdboards names, sound names and image name to avoid invalid

characters in the file system.

Performance:

• We compress all pictures and sounds which uploaded by users.

• We cache all static files of our website.

Load time comparison:

For example, public board **sponge bob**:

before: 3.88s after: first time load takes 750ms, after that it takes only 169ms.

total size of files transferred:

before: 6MB after: 1.4MB

For public board cars

before: 1.08s after: first time load takes 600ms, after that it takes only 145ms.

total size of files transferred:

before: 2.6MB after: 511KB