

MSP user manual

Mädz superproxy is a project for the course TDTS06 at Linköpings university. The proxy should filter out bad urls and content of web pages.

Compiling

Provided with the sources code is a makefile that can be used to compile the project. The project uses c++11 constructs so a compiler that support those constructs are needed. Preferably use gcc 4.7 or newer. To compile the program invoke the 'make' command:

```
> make
```

To clean up executables and temporary files run 'make clean':

```
> make clean
```

Running

To run the application invoke the command './msp 6060' where 6060 is the port number. The port number can be any number above 1024. Also set the proxy to be used in your preferred web browser. Then you can surf the web with the proxy.

Guidance of the requirements specification

The major group of requirements are fulfilled and described in the "cache.cpp" file, this is where most of the action happens. Requirements are implemented in the following files and functions:

1. file: url_filter.cpp, function: "sort_header()" and "build_request()"
2. Most of the files helps with this interaction
3. file: "url_filter.cpp", function "check_url()"
4. file: "content_filter.cpp", function "start()"
5. file: "cache.cpp", function "check_response_type()", "socket_stream()", "recv_all()"
6. Works with chrome and firefox at least.
7. file: "main.cpp", function "main.cpp"
8. file: "cache.cpp", function "check_response_type()"
9. POST requests are not supported at the moment.

Proxy features

- Filters inappropriate URLs
- Filter inappropriate text content
- Supports multiple requests via threading
- Supports HTTP/1.0 and HTTP/1.1
- Handles HTTP GET requests
- No limit of transferred HTTP data

Proxy limitations

- The proxy cannot handle POST request.
- No caching is implemented
- The proxy will not filter gzip pages

- The proxy cannot play youtube videos

Interaction within proxy

