

## Introdução

O coletor é um *software* capaz de acessar os *links* da *web* e coletar os *htmls* das páginas. Neste trabalho, desenvolvemos um coletor de propósito geral, descrito <https://andrelbol.github.io/SimpleCrawler/>, que acessa *links* encontrados a partir de *urls* sementes. Essas sementes estavam pré-definidas na proposta do trabalho, para o André foi definida a [terra.com.br](http://terra.com.br), a Silvia escolheu uma das sementes que não estava sendo usada por nenhum aluno da turma e a Yulli havia ficado com a semente <https://www.telegrafi.com/>. Entretanto, tivemos o erro 403 Forbidden ao acessar essa url, por algum motivo o site não permite o acesso por robôs, então escolhemos <http://www.zerozero.pt> como a semente.

Utilizamos a arquitetura proposta no trabalho, representada na figura 1, onde a classe *Page Fetcher* tinha como responsabilidade descobrir novas *urls* que seriam gerenciadas pelo escalonador, responsável por oferecer as próximas páginas a serem visitadas pelo *Page Fetcher*. Além disso o escalonador tinha outras responsabilidades, dentre elas: verificar se a profundidade de páginas estava sendo respeitada, se os servidores estavam sendo acessados com uma janela mínima de 30 segundos e controlar a fila de páginas.

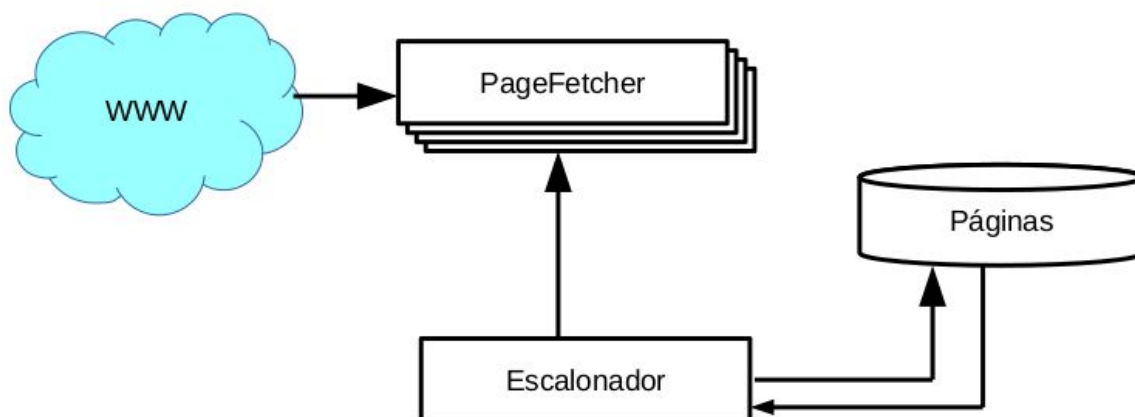


Figura 1 - Imagem da arquitetura. Fonte: Slides professor.

Como desafios encontrados neste trabalho podemos citar a dificuldade encontrada para acessar páginas mal-formadas. A utilização do *Html Cleaner* trouxe uma dificuldade para a coleta adequada de links, além disso tivemos que tratar *links* que não eram páginas válidas. Além disso, ao executar o projeto com uma número de threads maior que 30, algumas threads tiveram um estouro de pilha.

Para avaliar o número adequado de threads a serem utilizadas, executamos o programa variando a quantidade de threads de 10 a 100 de 20 em 20, conforme mostrado na tabela 1. De acordo com essa análise, escolhemos utilizar 10 threads nesse trabalho, pois com esse número conseguimos uma maior velocidade de coleta.

Número de Threads	Número de páginas Coletadas (N)	Tempo total de Coleta (s) (T)	Velocidade (N/T)
10	504	436	1,15596
30	524	562	0,93238
50	544	490	1,11020
70	564	525	1,07428
90	584	554	1,05415
100	595	583	1,02058

Tabela 1 - Velocidade de acordo com o número de Threads

## Desenvolvimento

O desenvolvimento do coletor foi feito na linguagem Java, possuindo uma estrutura formada por 6 classes essenciais.

### URLAddress

Classe escolhida como principal do projeto. Possui em sua estrutura os atributos:

- **address**: endereço pertencente à *url* a ser coletada
- **depth**: profundidade dessa *url* em relação à coleta sendo realizada

Essa classe permitia a formatação das *urls* buscadas, carregando consigo o metadado referente à quantidade de *urls* “mães” necessárias até encontrar a mesma.

Como decisão de projeto, essa classe foi escolhida também para abrigar o método **main** do coletor, sendo assim o local onde as *threads* de busca são iniciadas com as sementes de coleta.

### Servidor

Classe responsável por armazenar informações dos servidores onde a coleta é realizada. Possui os atributos:

- **nome**: Armazena o nome do servidor
- **lastAccess**: Armazena um *timestamp* do último acesso realizado ao servidor, sendo esse no formato de milissegundos.
- **ACESSO\_MILIS**: Constante que indica o tempo de intervalo mínimo entre acessos a esse servidor

A partir das informações de instâncias dessa classe, a coleta pode persistir as informações dos servidores por onde passou, além de conseguir respeitar o critério de tempo entre

acessos a um mesmo servidor (tempo indicado pela constante, escolhido como **30 segundos**). A classe ainda possui uma implementação da função **hashCode**, a qual permite a identificação única de cada servidor armazenado, evitando possíveis repetições indesejadas.

## ColetorUtil

Classe de utilidades, possuindo um conjunto de métodos que auxiliaram na estruturação da coleta. Os métodos existentes são:

- **getUrlStream** e **consumeStream**: Métodos auxiliares na busca das páginas html referentes às *urls* coletadas, além de leitura do conteúdo das mesmas incluindo bufferização e decodificação
- **isAbsoluteUrl**: Método de verificação da existência de protocolo na *url* passada como parâmetro.

## Record

Representação do robots.txt recuperado dos servidores buscados. A partir da utilização de métodos da biblioteca [jrobotx](#) da empresa [TrigonicSolutions](#), as instâncias dessa classe permitem a interpretação das regras explicitadas por cada servidor, facilitando as verificações de permissões de coleta. O método **allows** percorre todas as regras encontradas e verifica se o caminho passado como parâmetro a ser coletado viola alguma, sendo assim o principal método dessa classe.

## EscalonadorSimples

Classe responsável por possuir as *urls* a serem coletadas, além de coordenar a busca para que seja uma busca em largura através das inserções e buscas personalizadas. Os atributos da classe são:

- **PROFUNDIDADE\_MAXIMA**: Constante contendo a maior profundidade de coleta permitida às *threads*, servindo como um ponto de parada da execução
- **MAXIMO\_DE\_PAGINAS**: Constante contendo o número limite de páginas a serem buscadas, servindo como um ponto de parada da execução
- **numeroDePaginasColetadas**: Variável controladora contendo o número de páginas coletadas até então
- **filaDePaginas**: “fila” de páginas armazena um mapeamento de servidores e suas *urls* buscadas. Sempre que uma nova *url* é encontrada na coleta e respeita condições específicas, é adicionada a esse mapeamento com seu respectivo servidor.
- **urlsConhecidas**: Variável auxiliar do sistema que possui todas as *urls* que já foram percorridas. Auxilia no impedimento de repetições na coleta.
- **listaDeRecords**: Mapeamento entre servidores e seus respectivos [Records](#). A partir desse mapeamento é possível resgatar as configurações de coleta do servidor específico, necessário ao decidir se será adicionada a *url* à fila de páginas.
- **urlsColetadas**: Lista de *urls* que já foram coletadas.
- **horaDeInicio**: Variável que contém o *timestamp* de início da coleta (em milissegundos).
- **numDeThreads**: Variável que contém o número de threads utilizadas na busca

Para cada coleta realizada existe somente um escalonador, de forma que todas as *threads* de coleta compartilham esse escalonador.

Contendo e disponibilizando as urls de busca, essa classe coordena toda a coleta, afinal define o que cada *thread* irá realizar. Isso é realizado a partir dos seguintes métodos:

- **getUrl**: Método que retorna a próxima *url* na fila que esteja **disponível**. Essa disponibilidade é verificada mediante ao intervalo de tempo entre coletas no servidor referente à *url*. Caso não exista nenhuma *url* disponível, o escalonador ordena a *thread* a aguardar 1 segundo e percorrer novamente a lista de *urls*.
- **adicionaNovaPagina**: Método que adiciona uma nova *url* à fila de páginas, adicionando um novo servidor caso a *url* pertença a um servidor ainda não pesquisado.
- **getRecordAllowRobots**: Retorna o [Record](#) referente ao servidor da *url* passada como parâmetro.
- **putRecorded**: Adiciona um novo [Record](#) referente a um servidor passado como parâmetro.
- **finalizouColeta**: Verifica se a coleta chegou ao fim mediante à variável de controle **MAXIMO\_DE\_PAGINAS**, ou seja, se o número de páginas coletadas já chegou ao máximo.

No projeto foram escolhidos como valores de controle **500 páginas no máximo e uma profundidade de 4 urls**.

## PageFetcher

Classe que representa as *threads* de busca do coletor. A classe possui 2 atributos:

- **escalonador**: Contém o escalonador que é compartilhado por todas as *threads*.
- **robotName**: Contém o nome do coletor (nesse projeto, o **asyrobot**).

As *threads* são responsáveis por a partir de uma *url* buscar a página da mesma, percorrer essa página buscando os links existentes e, para cada link, adicionar (ou não) a *url* do link à lista do escalonador. Os métodos da classe utilizados para esse fim são:

- **coletaLinksHtml**: Método responsável por resgatar a página da *url*, percorrer a mesma. Para cada link encontrado na página, caso não seja do tipo *php* e contenha o domínio do servidor pertencente, adiciona a mesma à lista de *urls*, indicando a profundidade da mesma como consecutiva da *url* utilizada para buscar. A busca da página utiliza a biblioteca [HtmlCleaner](#), a qual possui métodos que buscam e ajustam *htmls* mal formatados.
- **getRecord**: Método responsável por buscar a configuração do robots.txt do servidor cuja *url* está sendo buscada.
- **run**: Método principal da *thread*, sua duração executa até que o escalonador sinalize que a coleta foi finalizada. Busca a próxima *url* na fila do escalonador. Inicialmente, verifica quais as regras de busca do servidor (quando ainda não existe no mapeamento do escalonar, busca no servidor e adiciona ao mapeamento), e caso a *url* respeite todas as regras coleta as *urls* da página adicionando à fila.

Devido à forma como a coleta ocorre, existe uma execução contínua pois cada *url* gera mais links que servem para continuar a execução. Dado que o escalonador é compartilhado, quando a execução termina para um *thread*, termina para todas.

## Urls Coletadas

<http://www.zerozero.pt>  
<http://terra.com.br>  
<http://www.forbes.com>  
<https://www.ceroacero.es>  
<https://www.ogol.com.br>  
<https://www.zerozero.pt>  
<https://www.thefinalball.com>  
<https://www.calciozz.it>  
<https://www.leballonrond.fr>  
<https://www.fussballzz.de>  
<https://www.soccerzz.com>  
<https://facebook.com/zerozeropt>  
<https://twitter.com/zerozeropt>  
<https://instagram.com/zerozeropt>  
<https://www.youtube.com/c/zerozero>  
[http://wlbetpt.adsrv.eacdn.com/C.ashx?btag=a\\_45b\\_46c\\_&affid=45&siteid=45&adid=46&c=](http://wlbetpt.adsrv.eacdn.com/C.ashx?btag=a_45b_46c_&affid=45&siteid=45&adid=46&c=)  
<http://www.sporttv.pt>  
<http://elevensports.com/pt-pt/>  
<https://www.casinoportugal.pt/promocoes?btag=900498&ad=vSmgOLPz9pqO0r3b>  
<https://www.facebook.com/ogolcombr>  
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<https://www.instagram.com/ogolcombr/>  
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<https://oferta.sporttv.pt/>  
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<https://itunes.apple.com/us/app/apple-store/id989804926?pt=373246&mt=8>  
<https://accounts.firefox.com/legal/terms>  
<https://blog.mozilla.org/press/>  
[https://careers.mozilla.org/?utm\\_source=www.mozilla.org&utm\\_medium=referral&utm\\_campaign=footer&utm\\_content=company](https://careers.mozilla.org/?utm_source=www.mozilla.org&utm_medium=referral&utm_campaign=footer&utm_content=company)  
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<https://facebook.com/ogolcombr>  
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<https://www.twitter.com>  
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<https://myaccount.google.com/?hl=en>

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<https://kids.youtube.com/privacynotice>  
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[http://www.youtube.com/subscription\\_center?add\\_user=sporttv](http://www.youtube.com/subscription_center?add_user=sporttv)  
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<https://dev.twitter.com/overview/terms/policy>  
<https://pt.uefa.com/european-qualifiers/index.html>  
<https://www.twitter.com/privacy/>  
<https://help.twitter.com/>  
[https://about.twitter.com/en\\_us/lets-go-twitter.html](https://about.twitter.com/en_us/lets-go-twitter.html)  
<https://blog.twitter.com/small-business>  
<https://support.twitter.com/articles/20172501>  
<https://business.twitter.com/en/advertising.html>  
<https://www.periscope.tv/content>  
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<https://marketing.twitter.com/na/en/insights.html>  
<https://help.periscope.tv/customer/portal/emails/new>



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<https://instagram.com/uefacom/>  
<https://www.linkedin.com/company/uefa>  
<https://uefa.newsmarket.com/>  
<https://pt.uefa.com/european-qualifiers/video/highlights/>  
<http://../uefaeuro-2020/performancezone>  
<http://www.uefafoundation.org>  
<http://row.store.uefa.com/>  
<https://itunes.apple.com/pt/app/id1061115611?mt=8>  
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