

Distributed Systems

Lab 1

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Code Extracts - Controller

```
require 'net/http'
require 'uri'
def get
  if params[:url] =~ URI::regexp
    uri = URI.parse(params[:url])
    uri.query = URI.encode_www_form({ :message => params[:message] })
    uri.port = 8000
    if params[:url] =~ /^https:\\\\\\..*?scss.tcd.ie/
      if params[:username] == '' || params[:password] == ''
        render plain: 'Invalid_username/password'
        return
      end
    else
      begin
        http = Net::HTTP.new(uri.host, uri.port)
        http.use_ssl = true
        http.verify_mode = OpenSSL::SSL::VERIFY_NONE
        request = Net::HTTP::Get.new(uri.request_uri)
        request.basic_auth(params[:username], params[:password])
        response = http.request(request)
        res = response.body
      rescue Exception => e
        render plain: 'Error_occured, _possibly_wrong_' +
          'username/password. _Error:_' +
          e.message + ''
      end
    end
    return
  end
  else
    res = Net::HTTP.get(uri)
  end
  render plain: res
else
  render plain: 'Invalid_URL'
end
end
```

Code Extracts - View

```
<form action="/request" method="GET" role="form"
      class="form-inline" autocomplete="off">
  <div class="form-group">
    <label for="url">URL:</label>
    <input type="text" name="url"
          value="http://localhost:8000/echo.php"
          class="form-control" id="url">
  </div>
  <div class="form-group">
    <label for="username">Username:</label>
    <input type="text" name="username"
          placeholder="Optional"
          class="form-control" id="username">
  </div>
  <div class="form-group">
    <label for="password">Password:</label>
    <input type="password" name="password"
          placeholder="Optional"
          class="form-control" id="password">
  </div>
  <div class="form-group">
    <label for="message">Message:</label>
    <input type="text" name="message"
          class="form-control" id="message">
  </div>
  <input type="submit" class="btn btn-default">
</form>
```