**Some Assumptions...**

* Scraper 3rd party app already exists
* Only one scraper error can occur at any given time

If a scraping attempt fails, scraper responds with an XML file containing scrape details

If a scraping attempt is a success, scraper responds with an XML file containing scraped data

Notify user if any inputs actions are required of them either by APS or any of their e-billing companies as a result of scraping errors

Avoid unnecessary scraping attempts if user billing account is not fit for scraping

**Key Examples: Error XML responses**

* Scraper attempts to scrape with invalid user credentials
* Scraper attempts to scrape with customer that hasn’t signed up for e-billing
* Scraper attempts to scrape with customer who’s e-billing process required further customer input to complete
* Scraper attempts to scrape while the billing company website is down
* Scraper attempts to scrape while e-billing service is unavailable
* Scraper attempts to scrape with a nonconforming script

*Given* that scraping error occurs  
*And* date is 1 June 2009  
*And* time is 12:59:34  
*And* URL being scraped is [www.elen7045.co.za](http://www.elen7045.co.za)

|  |  |
| --- | --- |
| **Error Scenario** | **XML File Content** |
| Scraper attempts to scrape with invalid user credentials | <scrape-session> <base-url>www.elen7045.co.za</base-url> <date>01/06/2009</> <time>12:59:34</time> <error>InvalidCredentials</error> |
| Scraper attempts to scrape with customer that hasn’t signed up for e-billing | <scrape-session> <base-url>www.elen7045.co.za</base-url> <date>01/06/2009</> <time>12:59:34</time> <error>UserNotSignedUpForEbilling</error> |
| Scraper attempts to scrape with customer who’s e-billing process required further customer input to complete | <scrape-session> <base-url>www.elen7045.co.za</base-url> <date>01/06/2009</> <time>12:59:34</time> <error>AccountUpdateRequired</error> |
| Scraper attempts to scrape while the billing company website is down | <scrape-session> <base-url>www.elen7045.co.za</base-url> <date>01/06/2009</> <time>12:59:34</time> <error>BillingSiteDown</error> |
| Scraper attempts to scrape while e-billing service is unavailable | <scrape-session> <base-url>www.elen7045.co.za</base-url> <date>01/06/2009</> <time>12:59:34</time> <error>BillingSitePageError</error> |
| Scraper attempts to scrape with a nonconforming script | <scrape-session> <base-url>www.elen7045.co.za</base-url> <date>01/06/2009</> <time>12:59:34</time> <error>UndeterminedError</error> |

**Key Examples: Success XML Responses**