**Credential Management (Patrick):**

**I want to register as a** customer to APS **so that** I have a profile to use APS

**Given** that I have internet access  
**And** I am at the register page  
**When** I enter the required fields  
**And I** submit  
**Then** APS verifies the details  
**And** creates the profile

**I want to add my login details** for a billing company as a user of APS **so that** APS can retrieve my statements

**Given** that I have a APS profile  
**And** I am logged in  
**When** I enter the required fields  
**And I** submit  
**Then** APS will validate my details  
**And** saves the details

**\*\* Ignoring security**

**Data to be scraped (Derrick):**

**I want to** define a common data field set on scraped data as APS **so that** it is represented to the customer in a consistent way

**Given** that I have a predefined list of common fields to use

**And** I have identified the corresponding common fields of the billing company

**When** Iscrape the data

**And** I map the appropriate fields to each other

**Then** APS defines a common field set

**I want to** define a specific data field set on scraped as APS **so that** it caters for multiple billing company types

**Given** that I have a list of specific unique fields for the particular billing company

**And** I have identified the corresponding specific fields of the billing company

**And** I know the billing company type

**When** Iscrape the data

**And** I map the appropriate fields to each other

**Then** APS defines a specific field for a particular billing company type

**I want** to perform numeric and currency field conversions on scraped data as APS **so that** data integrity checks can be performed

**Given** that the fields has already been captured

**And** I know which fields are numeric or a currency field

**When** I scrape the data

**Then** APS performs numeric and currency field conversions

**I want to define** the common data mappings for the APS as an Administrator **so that** it is represented to the customer in a consistent way

**Given** that I have a predefined list of common fields available  
**And** I have identified the corresponding common fields of the billing company  
**When** I select a billing company profile  
**And I** map the appropriate fields to each other  
**Then** APS stores the mapping

**I want to define** the specific data mappings for the APS as an Administrator to map fields which are specific to the billing company

**Given** that I have a list of specific unique fields for the particular billing company  
**When** I select a billing company profile  
**And I** map the appropriate fields to each other  
**Then** APS stores the mapping

**Data Integrity Checks (Kyle):**

**I want APS to perform standard** integrity checks against the scraped data, as a user **so as** to ensure the data’s accuracy

**Given** that the data has been successfully scraped   
**And** the addition check fields have been identified  
**When** standard integrity checks are being performed on the data  
**Then** APS will perform addition checking

**I want APS to perform standard** integrity checks against the scraped data, as a user **so as** to ensure the data’s accuracy

**Given** that the data has been successfully scraped   
**And** the addition check fields have been identified  
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**And** the addition check fields have been identified  
**When** standard integrity checks are being performed on the data  
**Then** APS will perform addition checking

**Scraper Scheduling (Paul):**

**I want to** create a new schedule **as an** administrator **so that** billing statements are only scraped at certain times

**Given** I have already logged on  
**And** a company profile have already been created  
**When** I select a billing company  
**And** provide scheduling parameters   
**Then** APS attempts to create a schedule with the details provided

**I want to** model billing cycles **as an** administrator of APS so that statements are only drawn when new statements are expected

**Given** I have already logged on  
**And** a company profile have already been created  
**When** I select a company profile  
**And** set the number of days per billing cycle  
**And** set the lead-time interval  
**And** set the retry interval  
**Then** APS stores the life cycle

**I want to** define re-scrape on failure rules **as an** administrator of APS so that different re-scrape intervals can exist depending on the error returned

**Given** I have already logged on  
**And** a company profile have already been created  
**When** I select a company profile  
**And** select the type of failure  
**And** set the retry interval  
**Then** APS stores the error retry interval

**I want the** APS to begin a scrape within scheduled parameters **as an** administrator so that scraping is performed at the best time possible

**Given** that a schedule has already been defined  
**When** the scheduled time is at hand  
**Then** APS performs the scrape

**Scraper Load Management (Piet):**

**I want to** configure how many concurrent scrapes can be performed per billing company **as an** administrator **so that** billing sites don’t get overloaded with scrape traffic

**Given** I have already logged on  
**And** a company profile have already been created  
**When** I specify the maximum concurrent scrapes  
**Then** APS saves the configuration

**I want APS to** prioritise account activations over statement scraping **as an** administrator **so that** account activations aren’t delayed as a result of the scraping

**Given** that concurrency has been configured  
**And** a scrape schedule has been created  
**When** an account activation is requested  
**And** a statement scrape is requested  
**Then** APS will prioritise the account activations over the statement scrapes

**Error Handling (John):**

**I want to** be notified of errors **as** a user **so** I can attempt to resolve the error

**Given** I have registered on APS  
**And** provided my logging details for the my billing company  
**When** I attempt to view my billing statement  
**Then** APS logs the error  
**And** notifies me of the error

**I want to** be notified if I entered an incorrect account number **as** a user **so** I can attempt to provide the correct account number

**Given** I have registered on APS  
**And** provided my logging details for my billing company  
**And** provided an incorrect account number  
**When** I attempt to link a new billing company’s account on APS  
**Then** APS logs the error  
**And** rejects the new account activation  
**And** notifies me of the invalid account number

**I want to** be notified of failed integrity checks **as** an administrator **so** I know that scraped data failed integrity and corrective measures can be taken

**Given** scrapes has been performed  
**When** scraped data has failed integrity checks  
**Then** APS logs the error and scraped data  
**And** rejects the scraped data  
**And** notifies the administrator of the failed integrity checks

**I want to** be notified when integrity checks cannot be performed on the scraped data **as** an administrator **so** that corrective measures can be taken

**Given** scrapes has been performed  
**When** scraped data is inconsistent or incorrect  
**Then** APS logs the error and scraped data  
**And** rejects the scraped data  
**And** notifies the administrator of the failed integrity checks

**Logging / Data Storage (Piet):**

**I want an** audit trail **as an** administrator **in order** to resolve customer disputes and to facilitate the correction of errors

**Given** the APS is operational  
**When** a scrape is performed  
**Then** APS should perform logging including date, time and url scraped  
**And** logging for successful scrapes including the scraped data  
**And** logging of unsuccessful scrapes including any errors