

Download Paging

08/13/2024 1:48 pm CDT

Overview

The following psuedocode describes a typical approach for implementing paging with our download API. At a high level, this builds a list of downloads that are monitored until they complete. As each download completes, you will get the maximum Id from the result set and then request the download again starting at that RowId + 1. Once you get 0 lines in your result set, you will have all the rows for that type.

Data Structures

```
pending_queue => list of all in-process downloads along with status
```

Methods

```

run =>
  start_download "branding-appointments"
  start_download "branding-contacts"
  ... start any other downloads to want to page through

  while pending_queue is not empty
    poll_download with status-token
    if complete
      process_download
    end
  end
end

start_download( kind ) =>
  send startdownload request with RowId = 0 and kind
  add kind, status-token, RowId to pending_queue
end

poll_download =>
  request download status
  if complete
    download file
    return complete
  end
  return not complete
end

process_download =>
  open-downloaded-file
  skip-headers
  line_count = 0;
  foreach line in file
    read_column "Id"
    increment line_count
  end
  if line_count > 0
    continue_download with Id
  else
    finish_download
  end
end

continue_download =>
  send startdownload request with RowId = Id + 1 and kind
  update queue entry with RowId and status-token
end

finish_download =>
  remove from pending_queue
  delete contents from table and load all downloaded files for the kind
end

```
