

`cgi.parse_multipart`

What it accomplishes:

This function of belonging to the `cgi` library performs the duty of parsing multipart/form-data given an input stream and a dictionary containing the boundary.

The function accepts an input stream, `rfile`, reads content-length amount of bytes from this input stream and uses the boundary to separate and payload of the input stream into multiple sections containing only the data of each section and not the accompanying headers.

How it accomplishes it:

- `Cgi.parse_multipart`
 - The function accepts an input stream, in this case `self.rfile`, a part of the `http.server` library, as a `FieldStorage` class.
 - The `FieldStorage` class will set headers, set variables account to the provided `pdict`, a dictionary containing information such as content-length and at the very least the boundary
 - An internal function `read_multi` is called since the data is considered multipart
 - `Read_multi` will start at the first line of the provided boundary and read each line of the input stream in an infinite loop
 - It then pushes data into a variable of class `FeedParse` which is a feed-style parser of email and closes the parser
 - Another instance of class `FieldStorage` is instantiated for the variable part which will take in parameters set in the `read_multi` function. This will then be added to a list of parts
 - `Parse_multipart` will return a dictionary of field names to their values, or in this case, section/part names to their data.
 - Permalink:
 - <https://github.com/python/cpython/blob/d8576b1d15155688a67baac24c15254700bdd3b7/Lib/cgi.py#L188>

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