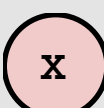
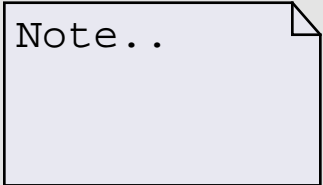


```
Document
-----
Project: POJO HTTP Data Servlet 3.0
Wrapper
Title: Class Diagram
Doc version: 0.2.9(Aug 23, 2020)
(Please refer to
class_diagram_release_note.md file
for version history)
Repo:
https://github.com/911992/WAsys_pojo_http_data_servlet3_wrapper
Author(s):
911992
```

Meta Legends

 On-page reference

 Note.. Note

Authors
911992[principal] https://github.com/911992

```

classDiagram
    class Servlet_Request_Data_Handler {
        +Servlet_Request_Data_Handler_POOL_INIT_LEN_KEY:String := "Servlet_Request_Data_Handler_POOL_INIT_LEN"{final}
        +Servlet_Request_Data_Handler_POOL_MAX_LEN_KEY:String := "Servlet_Request_Data_Handler_POOL_MAX_LEN"{final}
        +Servlet_Request_Data_Handler_POOL_FULL_POL_KEY:String := "Servlet_Request_Data_Handler_POOL_FULL_POL"{final}
        -fact:_Factory := new _Factory()
        -def_pool:Object_Pool := null
        +DEFAULT_CHARSET:Charset{final}
        +ASCII_CHARSET:Charset{final}
        <DEFAULT_CHARSET_init>:static{}
        <ASCII_CHARSET_init>:static{}
        -req:HttpServletRequest
        -cached_charset:Charset := null
        -cached_charset_done:bool := false

        +init_default_pool():void {synchronized}
        +shutdown_default_pool():void {synchronized}
        +new_pooled_instance(:HttpServletRequest):Servlet_Request_Data_Handler
        +fill(:HttpServletRequest,A):<A:Fillable_Object>
        +fill_all(:HttpServletRequest,...:Fillable_Object):void
        +Servlet_Request_Data_Handler(:HttpServletRequest):Servlet_Request_Data_Handler
        -Servlet_Request_Data_Handler(void):Servlet_Request_Data_Handler
        -set_req(:HttpServletRequest):void
        -get_part_at(:String,:int):Part
        -get_part_content_sub_head(:Part,:String,:String):String
        -get_part_content_sub_head_disposition(:Part,:String):String
        -get_multipart_form_data(:String,:int):Part
        -instream_to_str(:InputStream,:Charset):String
        -get_multipart_charset(void):Charset
        +get_param_at(:String,:int):String
        +get_param_vals(:String):String[]
        +param_count(:String):int
        +is_multipart_request(void):boolean
        +get_part_filename_at(:String,:int):String
        +get_part_mime_type_at(:String,:int):String
        +get_part_size_at(:String,:int):long
        +stream_part_at(:String,:int,:OutputStream):long
        +get_part_stream_at(:String,:int):InputStream
        +fill_object(:Fillable_Object):void
        +get_associated_request(void):HttpServletRequest
    }

    class _Factory {
        «private» «static» «final»
        ~_Factory(void):_Factory
    }

    class Servlet_Request_Data_Handler_Servlet_Ctx_Listener {
        +contextInitialized(:ServletContextEvent):void
        +contextDestroyed(:ServletContextEvent):void
    }

    Servlet_Request_Data_Handler --|> Servlet_Request_Data_Handler_Servlet_Ctx_Listener : «init internal pool»
    _Factory --|> Servlet_Request_Data_Handler : «creates»
    _Factory --|> Servlet_Request_Data_Handler : +fill(:HttpServletRequest,A):<A:Fillable_Object>
    Servlet_Request_Data_Handler --|> Servlet_Request_Data_Handler : :static{} refers to static initialize block in java as static{...}
  
```

The diagram illustrates the structure of the `Servlet_Request_Data_Handler` class and its associated components:

- Servlet_Request_Data_Handler Class:** Contains numerous static and instance variables related to request handling pools and character sets. It implements several methods for managing these pools, parsing multipart requests, and handling context events.
- _Factory Class:** A private static final class used for creating instances of `Servlet_Request_Data_Handler`. It includes a method `~_Factory(void):_Factory`.
- Servlet_Request_Data_Handler_Servlet_Ctx_Listener Class:** Implements the `ServletContextListener` interface, providing `contextInitialized` and `contextDestroyed` methods.
- Relationships:**
 - `_Factory` creates instances of `Servlet_Request_Data_Handler` (indicated by a solid arrow labeled «creates»).
 - `Servlet_Request_Data_Handler` has a self-referencing association labeled `:static{} refers to static initialize block in java as static{...}`.
 - `Servlet_Request_Data_Handler` has a dashed association back to `_Factory` labeled `+fill(:HttpServletRequest,A):<A:Fillable_Object>`.
 - `Servlet_Request_Data_Handler` has a dashed association to `Servlet_Request_Data_Handler_Servlet_Ctx_Listener` labeled `«init internal pool»`.

[illegible]

```
classDiagram
    package "WAsys Generic Object Pool" {
        Pool_Context
        Generic_Object_Pool_Policy
        Full_Pool_Object_Creation_Policy
        Poolable_Object_Adapter
    }
    Poolable_Object_Adapter <|-- Poolable_Object
    Generic_Object_Pool_Policy <|-- Full_Pool_Object_Creation_Policy
    Poolable_Object <|-- Object_Pool

    G((G)) -.-> Pool_Context
    H((H)) -.-> Generic_Object_Pool_Policy
    I((I)) -.-> Full_Pool_Object_Creation_Policy
    B((B)) -.-> Poolable_Object
    F((F)) -.-> Object_Pool
```

Repo: https://github.com/911992/WAsys_simple_generic_object_pool

```

classDiagram
    class "«interface» Object_Factory"
    class E
    class J
    E ..|> "«interface» Object_Factory"
    J ..|> "«interface» Object_Factory"

```

Module::Type Signature (reflect::type_sig)

Artifact repo: https://github.com/911992/WAsys_Java_type_util

Servlet 3

```
graph TD; O((O)) -- solid arrow --> B1(( )); N((N)) -. dashed arrow .-> B2(( ))
```

HttpServletRequest

Part

A diagram illustrating the relationship between a locale and a character set. A pink circle containing the letter 'L' is connected by a line to a light blue rectangle labeled 'Charset'. An arrow points from the circle to the rectangle, indicating that the locale 'L' is associated with or determines the character set.

```

graph TD
    D((D)) -.-> IC[InitialContext]

```

```

classDiagram
    class M
    class ServletContextEvent
    M ..|> ServletContextEvent
  
```

The diagram shows a class **M** (represented by a blue circle with a yellow border) and an interface **ServletContextEvent** (represented by a blue circle with a white border). A dashed line with an open triangle arrowhead points from **M** to **ServletContextEvent**, indicating a dependency.