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Data Migration - Round 2

Team TheThree - Task 2

a) HTML to RST parser

- We implemented a class MyHTMLParser by inheriting from the html.parser.HTMLParser and overridden its handler methods to carry out the desired behavior when start tags, end tags, and data are encountered.
- List of tags that our parser can handle:

• Example:

```
text = 'CoffeeArabicaNilkparser = MyHTMLParser()
parser.feed(text)
parser.get_rst()

### Output:
#
#
# # * Coffee
#
# * Arabica
# * Robusta
#
# #. Tea
# #. Tea
# # #. Milk
#
# #
```

• Reference: python-html2rest

b) JSON to RST parser

- We implemented a class RstBuilder which have methods to write components to file
- · Here is our implement

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```
class RstBuilder:
  def **init**(self, out: typing.TextIO = sys.stdout) -> None:
  self.\_out = out
      def _add(self, content: str) -> None:
          self._out.write(content + "\n")
      def title(self, title: str, border: str = "=") -> None:
          self._add(border * len(title))
          self._add(title)
          self._add(border * len(title))
      def newline(self) -> None:
          self._add("")
      def heading(self, heading: str, underline: str = "*") -> None:
          self._add(heading)
          self._add(underline * len(heading))
      def directive(self, name: str, fields: typing.List[typing.Tuple[str,
str]]) -> None:
          self._add(f".. {name}::")
          for k, v in fields:
              self.\_add(f" : \{k\}: \{v\}")
      def content(self, content: str) -> None:
          self._add(content)
```

c) Usage

The program have 2 arguments. You can check the documentation by using the command

```
python main.py -h
```

Example command:

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python main.py -i sample.json -o sample.rst