

Amanzi Requirements Tracker


Daniel Topa




CCS-2: Computational Physics and Methods

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2018-11-21

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Completed

- ▶ Object Model - Basic
- ▶ Python object: Book()
- ▶ Writing to XLSX
- ▶ Forensics

GitHub Repo

| | | | | | | | | | | |
|-------------------------|------------------------|------------------------|-----------------|---|---|---|---|---|---|--|
| A1 | | | | | | | | | | |
| Name Box | | | | | | | | | | |
| | B | C | D | E | F | G | H | I | J | |
| 1 | 8 - Initial conditions | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | 1. assigned_regions | | | | | | | | | |
| 4 | | | no requirements | | | | | | | |
| 5 | 2. liquid_phase | | | | | | | | | |
| 6 | 08-IC.S-02.req-01 | liquid_component | | | | | | | | |
| 7 | 08-IC.S-02.opt-01 | geochemistry_component | | | | | | | | |
| 8 | 3. solid_phase | | | | | | | | | |
| 9 | 08-IC.S-03.req-01 | geochemistry | | | | | | | | |
| 10 | 08-IC.S-03.opt-01 | mineral | | | | | | | | |
| 11 | 08-IC.S-03.opt-02 | geochemistry | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 8 - Initial conditions | | | | | | | | | | |
| 9 - Boundary conditions | | | | | | | | | | |
| provenance | | | | | | | | | | |
| + | | | | | | | | | | |
| Ready | | | | | | | | | | |
| 100% | | | | | | | | | | |

Next Up

- ▶ Book attribute and methods
- ▶ Python object: chapter
- ▶ Python object: section
- ▶ Python module: simulate parsing

Primary Actions

1. Harvest (first parse of *.rst)
2. Process (full parse, load myBook)
3. Publish (write XLSX)

Primary Actions: Details

1. Harvest (first parse of *.rst)
 - 1.1 Specify *.rst
 - 1.2 `read().splitlines()`
2. Process (full parse, load myBook)
3. Publish (write XLSX)

Components

- ▶ Book
- ▶ Book has chapters
- ▶ Chapter has sections
- ▶ Section has requirements
- ▶ Do Chapters have requirements?

Foundation: Book

1. chapter: Initial Conditions
 - 1.1 section: Assigned Regions
 - 1.2 section: Liquid Phase
 - 1.2.1 required: liquid_component
 - 1.2.2 optional: geochemistry_component
 - 1.3 section: Solid Phase
 - 1.3.1 required: geochemistry
 - 1.3.2 optional: mineral, geochemistry
2. chapter: Boundary Conditions
 - 2.1 section: Assigned Regions
 - 2.2 section: Liquid Phase
 - 2.3 section: Solid Phase

Object: Book

```
# # classes
class Book:
    """parsed, structured contents of #.rst file"""
    def __init__( self, file_name, file_path, number_lines,
number_sections ):
        self.file_name      = file_name
        self.file_path      = file_path
        self.file_source    = file_path + file_name
        self.number_lines   = number_lines
        self.number_sections = number_sections
```