

Implementation Documentation for IPP Project 2017/2018

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This is documentation about my semestral project from IPP. My process of doing this project was decomposed into few main parts.

1. Specifications

- As usual my first part was about design a specify specifications and then transform it to the programming part
- I was using trello to write some checklists and i divided my project into logical parts.

2. Detailed design

- 1.part
 - writing in structural way
 - my plan was to do this with only using regexes
- 2.part
 - combination of OOP and structural
 - created class diagram and i was thinking about data structures which i will use in implementation
 - was harder and my trello checklist was huge

3. Implementation

- 1.part
 - i design finite-state machine with help of regexes and also functions to catch all errors
 - detailed description is in the script
- 2.part
 - In this part i was using data structures like dictionaries , stacks , lists etc.
 - Python was new for me so all this stuff was a little bit tricky
 - Also in this part i designed finite-state machines with help of functions
 - MileStones :
 - Xml and Argument class
 - Error class
 - Frame classes
 - Instruction classes
 - Make 33 instructions (not done)
 - Arg Class

4. Testing

- Testing was a member of implementation
- When i reached milestone i immediately tested that concrete module

Conclusion

- I was great programming experienced for me and i learned a lot
- Furthermore i discovered that „A little knowledge is a dangerous thing“.
- My Advice for everybody is „Broaden your horizons and be flexible“

Class Diagram of 2.part of project Interpreter.py

