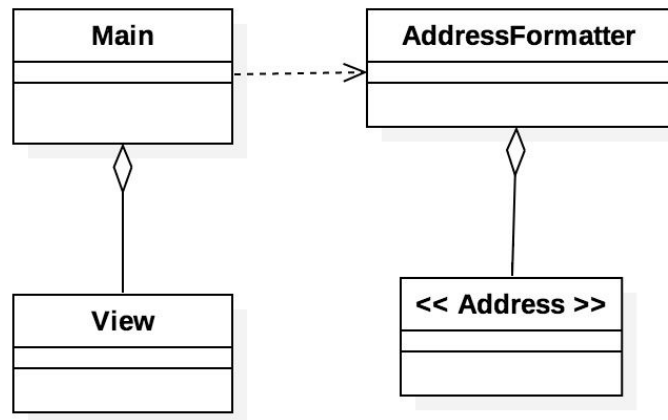


Architectural Design

“USPS Mailing Address Formalization System”

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- Class Structure
 - main-subroutine
 - bulk of program logic will be performed as a series of method calls done in “AddressFormatter”
- Class Diagram



- Decoupling Benefits & Future Implementation Options
 - methods have specific, limited, and specialized functions
 - allows parallel work on separate methods (or separate implementations of the same method) without affecting other aspects of program
 - implement new features (such as the discussed optional “AI engine”) without affecting existing functionality
- Implementation Language
 - Python 3.4+
 - clean, readable, portable, built-in graphics package
 - multi-paradigm, many IDE options, many tutorials
 - large developer community
- usaddress
 - example of part-of-speech tagging/parsing package