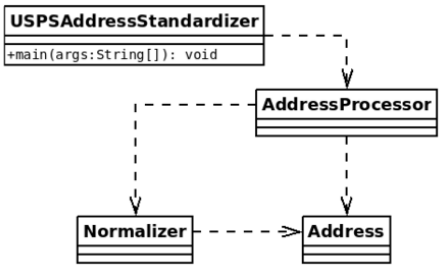
Group 5 Design And Architecture

Alexis Carroll — Nic Tolmais
John Mckeever — Andy Belzer
Stephanie Parkhurst

1 Introduction

This is a proposed design for an address normalization program. The client is Jon Beck.

2 UML Diagram



3 Architecture

We propose an n-tier architecture. Some advantages of using this architecture are high modularity, decoupling, and the ease of which a working prototype can be created. Interfaces make it so that one tier does not need to know the implementation of another tier. This allows changes in how one tier works without worrying about how it will affect the other tiers, as long as the interface is used.

4 Design

We decided to write this program in Java because of the team members' existing knowledge of the language. Java also has useful libraries for working with regular expressions and creating GUIs.
We believe that with this architecture, our program will be modular and it will be easy to add on to it. For instance, the program can be hooked up to a database. This would only involve changes in the I/O tier. The program could also use AI to better normalize addresses. This would only involve changes in the normalizing layer.