To: Matthias Felleisen, Instructor

From: Xiangxi Guo, Samedh Gupta

Subject: the Traveler Language

The *Traveler Language* we wish to design is intended for finding viable travel plans given a set of possible transportation, such as flight, train, bus, etc. The language currently supports single-file program (no "require"). Each program composed with this language must have a context associated with it. The client of this language will provide the context by specifying a series of transportation route that connect two locations. Thereafter, the programmer can inquire for travel plans from one location to another, with a set of optional constraints specified by the programmer. Running the program will then print out a formatted version of all the possible transportation routes for the "plans" requested by the programmer, within the provided context.

Language Specification

Milestones We will complete the following goals:

- Design and implement the basic syntax for this language.

- Focus on providing intuitive and readable error messages.

- Deal with technical issues in plan arranging, such as time-zones and temporal gaps between transportations.

- Think of additional features that can be added to the language, as the language seems quite specific yet limited right now.