Weekly Report

Team Dec 15-12
Week 5: Sep 21st - Sep. 27th

Advisor	Dr. Rajan	
Client	Dr. Rajan	
Team Members	Dalton Mills	*Webmaster*
	David Johnston	*Team Lead*
	Trey Erenberger	*Key Concept Holder*
Project	@PaniniJ	

Weekly Summary

Our priority this week was to determine how the Static Check module would fit into the existing project such that it could be easily expanded when more complicated checks are desired. We converted an existing checker class as the entry point into this module which allowed us to easily integrate the new static check module into the project. From there we worked as a team over google hangouts to implement the new checking system as well as a mechanism for reporting errors in a robust way.

We also took this week to identify the specific static checks that we want to implement for the 0.1.0 release.

1. Capsule Template only implements valid signatures
2. Capsule Template does not extend anything
3. Capsule Template has a well-formed init() method
4. Capsule Template does not contain a constructor
5. All fields of Capsule type must have @local or @imports annotation
6. Capsule Template does not have a main()
7. Active Capsule contains valid run()
8. @Signature annotated interface has valid name
9. @Capsule annotated class has valid class name
10. All interfaces implemented by Capsule Template are Signature Templates
11. Active Capsule has zero procedures
12. Capsule Template has not variadic parameter procedures
13. Capsule Template does not contain inner class
14. Capsule procedures must be declared public

Technical Progress

We utilized the collaborative meeting on Saturday to both design and implement the framework for adding static checks for the Panini programming model. We modified the CapsuleChecker class to serve as the apparatus for this module. A summary of the changes is mentioned in the preceding section. The progress in this week enables us to implement the remainder of the static check functionality that is a core component for the 0.1.0 release.

Meetings

Bi-Weekly Advisor Meeting

Members Present: All
Additional Participants: Dr. Rajan
Date & Location: Wednesday 22 of September; Atanasoff 216
Minutes:

- Discussed the need to compile a final list of static checks for 0.1.0
- Reaffirmed the need to enhance the code base with example usages of the @panini annotations/programming model

Weekly Collaboration Meeting

Date & Location: Saturday 26 of September; Google Hangouts
Members Present: All
Additional Participants:
Minutes:

- Set up the framework for the Static Check module
- Refactored the current Capsule Checker class into the framework mentioned
- Collaboratively programmed on implemented the design for the static check module
- Implemented the Capsule Suffix static check successfully
- Assigned the remaining checks to individuals to work on in the coming week

Individual Contributions

Trey Erenberger
- Meetings Attended: All
- Topics Researched:
- Code Written:
- Misc:

David Johnston
- Meetings Attended: All
- Topics Researched:
- Code Written:
- Misc:

Dalton Mills
- Meetings Attended: All
- Topics Researched:
- Code Written:
- Misc:

Individual Hourly Contributions

Trey Erenberger	5 Hours
David Johnston	7 Hours
Dalton Mills	5 Hours

Tentative Plans for Week 6

Our plans are to implement the static checks that we have posted on github issues. These have been assigned to specific members of the group.