

Weekly Report

Team Dec 15-12

Week 10: Oct 26th - Nov 1st

Advisor Dr. Rajan

Client Dr. Rajan

Team Members Dalton Mills *Webmaster*
David Johnston *Team Lead*
Trey Erenberger *Key Concept Holder*

Project @PaniniJ

Weekly Summary

Work this week was primarily spent collaborating in preparation for our Senior Design presentation.

Technical Progress

In addition to working on our presentation, we merged [PR #107](#) with [master]. Since last week, we made some slight modifications to the annotation processor so that template and signature check failures are handled elegantly in by CLI javac and Java IDEs, including Eclipse and NetBeans. (See below for pictures.)

The screenshot shows the Eclipse Mars IDE interface with the file `GreeterTemplate.java` open. The code defines a class `GreeterTemplate` that extends `DummyClass`. A red error marker is present on the line `GreeterTemplate extends DummyClass`, with a tooltip message: "Capsule templates must not extend anything except `java.lang.Object`, but `org.paninij.examples.helloworld.GreeterTemplate` extends `org.paninij.examples.helloworld.DummyClass`." The code also includes annotations `@Capsule` and `@Future`.

```

package org.paninij.examples.helloworld;

import org.paninij.lang.Block;...

@Capsule
class GreeterTemplate extends DummyClass
{
    Capsule templates must not extend anything except `java.lang.Object`, but
    `org.paninij.examples.helloworld.GreeterTemplate` extends `org.paninij.examples.helloworld.DummyClass`.

    @I

    void init() {
        message = new String("Hello World!");
    }

    @Future
    public long greet(boolean draw) {
        s.write(new String("Panini: " + message));
        long time = System.currentTimeMillis();
    }
}

```

Figure 1. @PaniniJ Annotation Processor Check Failure in Eclipse Mars

The screenshot shows the NetBeans 8.0.2 IDE interface with the file `HelloWorldShortTemplate.java` open. The code defines a class `HelloWorldShortTemplate` that extends `DummyClass`. A red error marker is present on the line `HelloWorldShortTemplate extends DummyClass`, with a tooltip message: "Capsule templates must not extend anything except `java.lang.Object`, but `atpaninijexamples.HelloWorldShortTemplate` extends `atpaninijexamples.DummyClass`." The code includes annotations `@Capsule` and `@Future`. The output window shows a successful build.

```

import org.paninij.lang.ExecutionProfile;
Capsule templates must not extend anything except `java.lang.Object`, but `atpaninijexamples.HelloWorldShortTemplate` extends `atpaninijexamples.DummyClass`.

public class HelloWorldShortTemplate extends DummyClass {

    public void run() {
        System.out.println("Hello, world!");
    }

    public static void main(String[] args) {
        CapsuleSystem.start(HelloWorldShort.class.getName(), ExecutionProfile.THREAD, args);
    }
}

```

Figure 2. @PaniniJ Annotation Processor Check Failure in NetBeans 8.0.2.

Meetings

We met as a team on Wednesday on hangouts to discuss the upcoming presentation and also some outstanding issues for the release. During this meeting we reviewed last semester's presentation and outlined our presentation for this year by identifying technical challenges and key talking points.

We met again on Thursday to begin the changes to our presentation based on the outline that we came up with on Wednesday.

We also met on Saturday to finish up the presentation content but ended up getting sidetracked with a pull request regarding static checks. When testing the PR, we found that eclipse would report and display errors from the annotation processor by using an alternate method.

We last met on Sunday to wrap up the presentation content and finish the weekly report.

Throughout the week we also developed several design diagrams which will be used in the final report and in the presentation.

Individual Contributions

Trey Erenberger

- Meetings Attended: All
- Misc:

David Johnston

- Meetings Attended: All
- Topics Researched:
- Code Written:

Dalton Mills

- Meetings Attended: All
- Misc:

Individual Hourly Contributions

Trey Erenberger 10 Hours

David Johnston 9 Hours

Dalton Mills 10 Hours

Tentative Plans for Week 11

Give presentation. Continue javadoc documentation. Continue closing minor issues which are part of the [v0.1.0-release milestone](#).