

Project C.A.S.P. - Weekly Update 12

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1 Development Progress

Development progress on analyze module is still underway. The team has been reviewing how best to proceed with and determined that implementing Syntax Action Routines would be the best course of action. Ryan defined a set of three action routines for the compiler to use: `DeclareVar`, `AssignVar`, and `ResolveExpr`. `DeclareVar` reads an ID and a type and stores them in a hash table associated with a node. `AssignVar` works similarly, reading an ID and an expression to store on a node. `ResolveExpr` is incomplete, but attempts to resolve expressions, including identifiers, literals, and algebraic expressions into the simplest form possible. This work will allow the minimal completion of the Analyze Module.

Because the work has taken Ryan all week to implement, Dylan has been working on the User's Manual. There was major progress made over the weekend on the implementation details, how each section works, timelines, and all the appendices. The code section will be left blank until the completion of the project.

The team added more content to the Context Free Grammars of C++ and JavaScript in order to allow for more functionality. The team also tested, fixed bugs, and documented code this week.

2 Weekly Tasks

From here on out, the team will collectively complete the remaining pool of tasks, as to help each other tie loose ends. Remaining project tasks include completion of the Analyze Module, code documentation, User Manual, and the Final Presentation. The team will also test extensively to make sure that all necessary functionality is complete for the Final Presentation.