MICHIGAN STATE
UNIVERSITY

Beta Presentation
General RAte Calculation Environment IDE

The Capstone Experience

Team Delta Dental Knowledge Science 1

Hyunmin Kim
Joseph Nagy
Anthony Rodeman
Qinghao Shen
Justin Swinehart

Department of Computer Science and Engineering
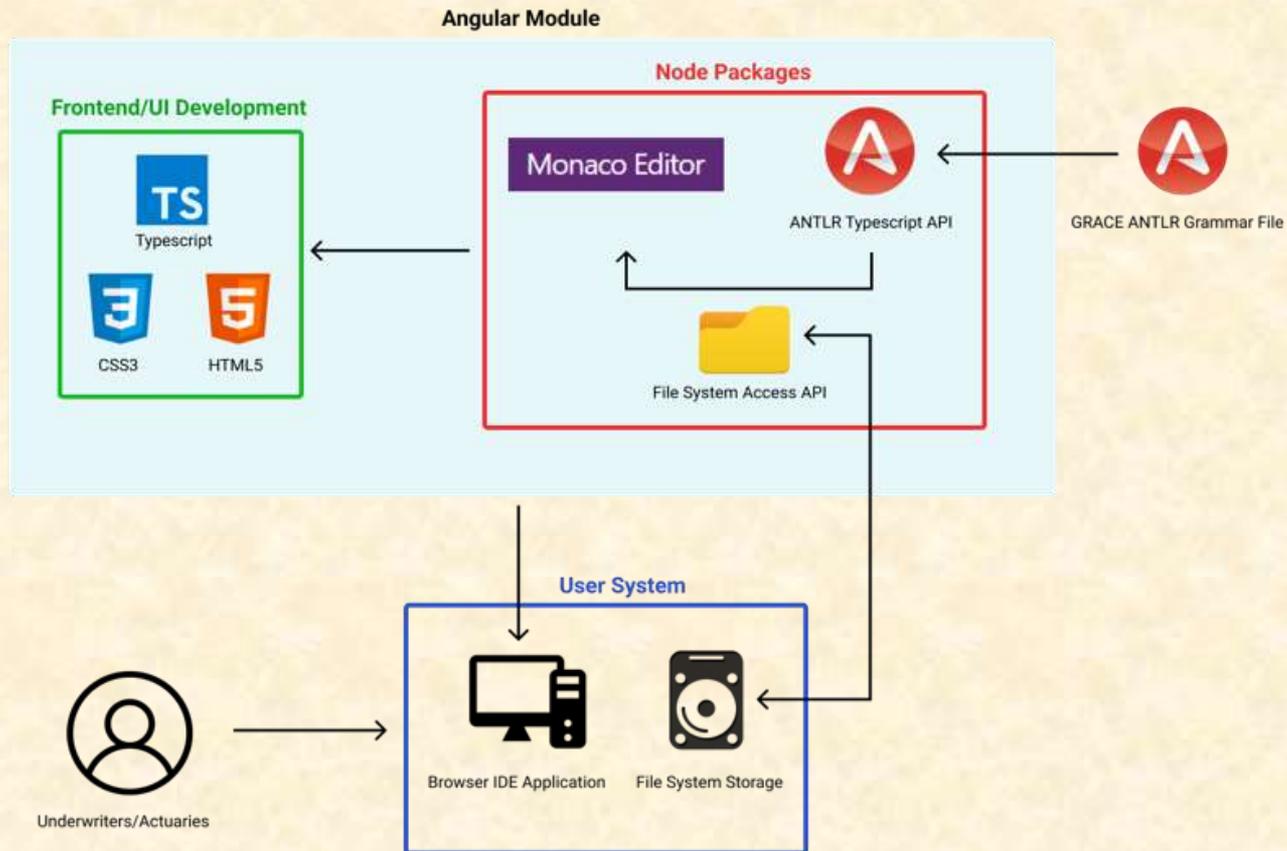Michigan State University
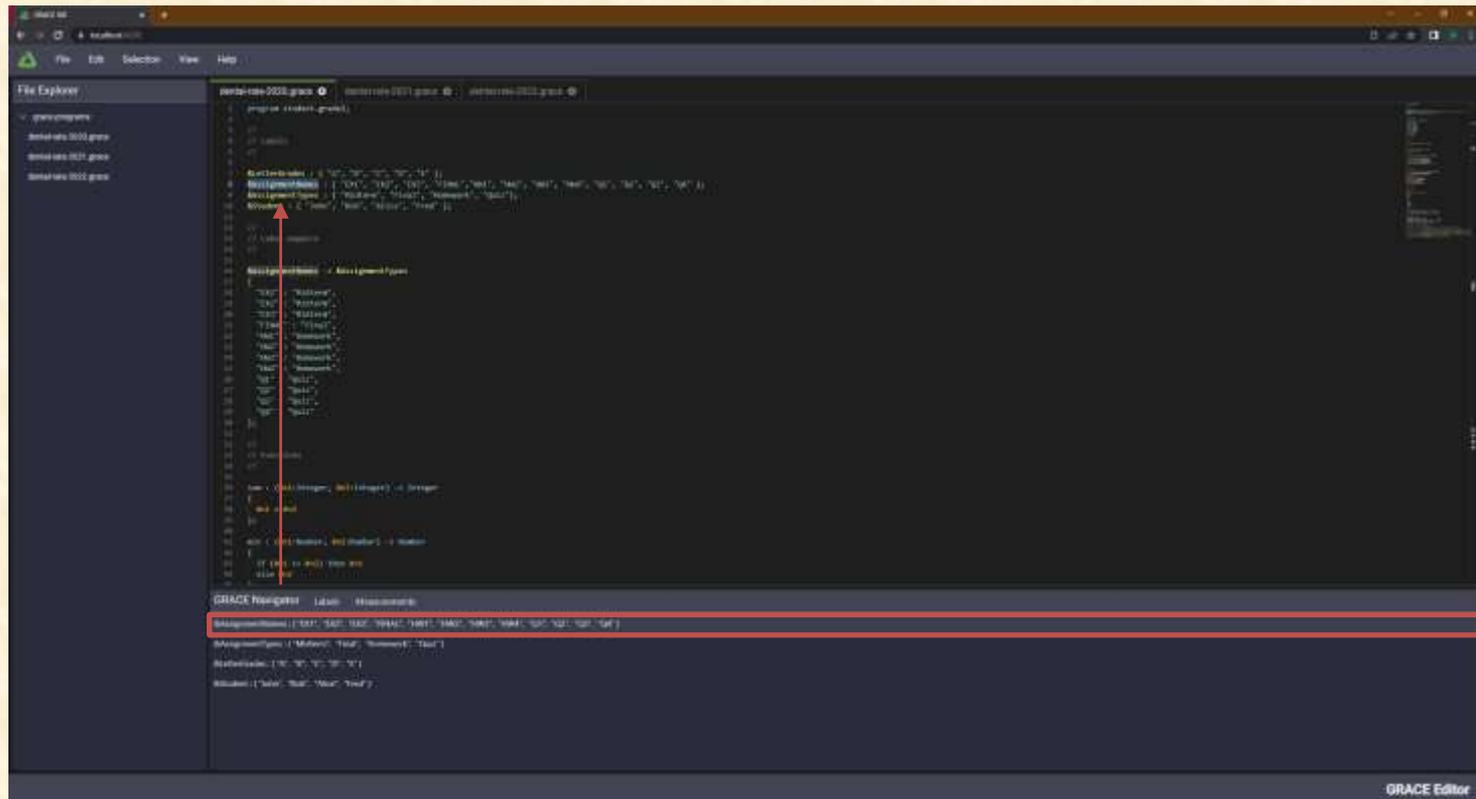
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Project Overview

- Browser-based editor for General RAte Calculation Environment language (GRACE)

- Helpful editor features like code coloring and error highlighting

- File and folder navigation similar to native IDEs

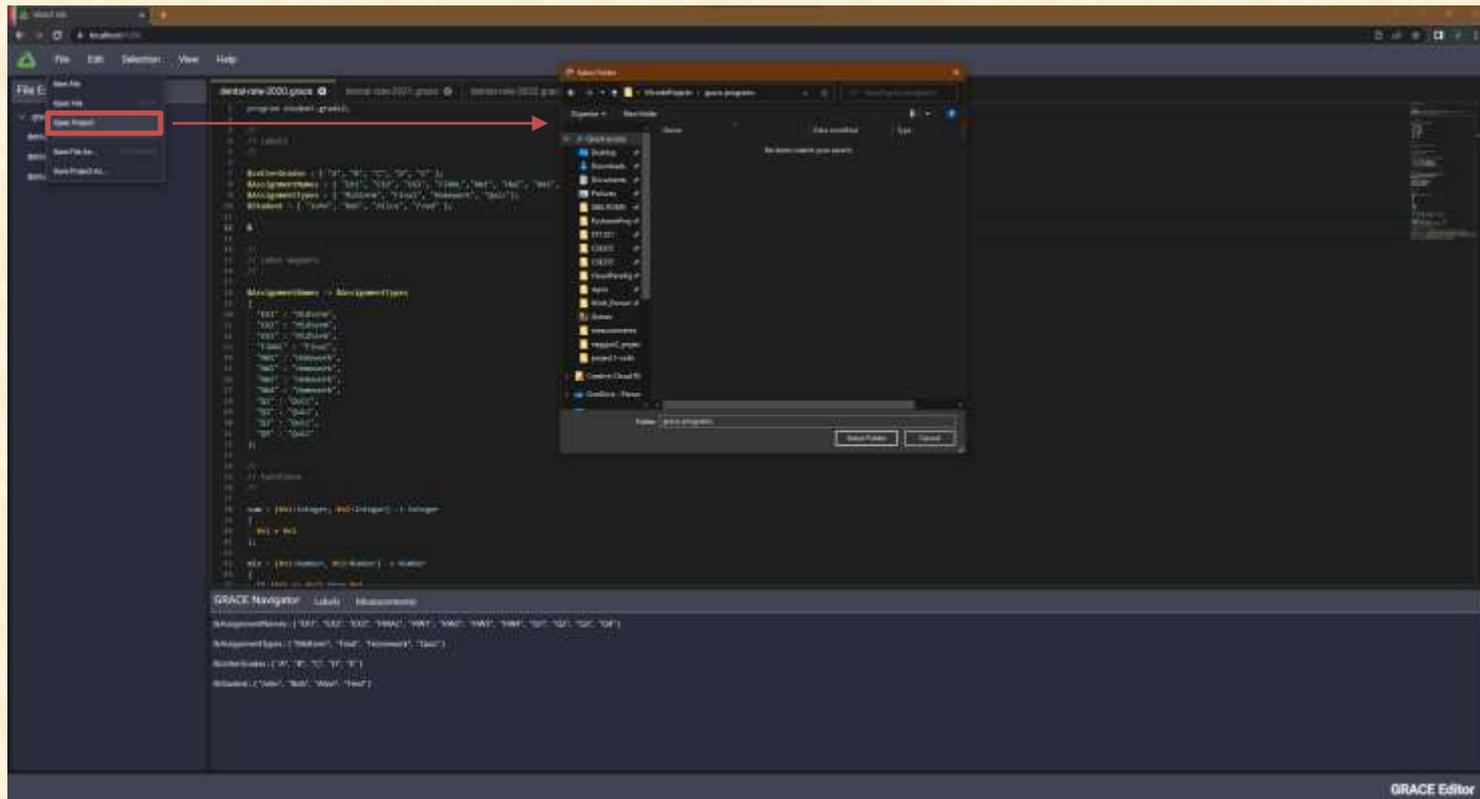- Language features available in VS Code plug-in

System Architecture

Code Navigation

Semantic Error Checking

IntelliSense Completions

File System Loading/Saving

What's left to do?

- Features
  - Convert antlr4 grammar to TextMate grammar in VSCode Plugin
- Stretch Goals
  - GRACE Navigator in VSCode plugin
  - Add more customization options
  - Session Storage
- Other Tasks
  - Document software
  - Improve visual effects of GRACE Navigator
  - Feedback for opening/saving/closing files and folders
  - Improve help menu

Questions?