SAGE - Gameful Intelligent Tutoring

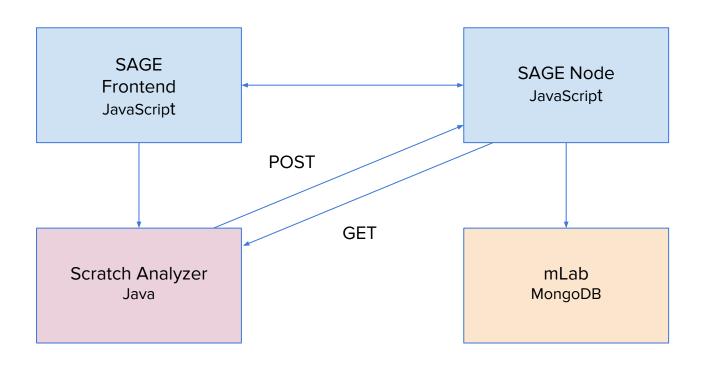
Programming Behavior Detection 1.1 Final Presentation

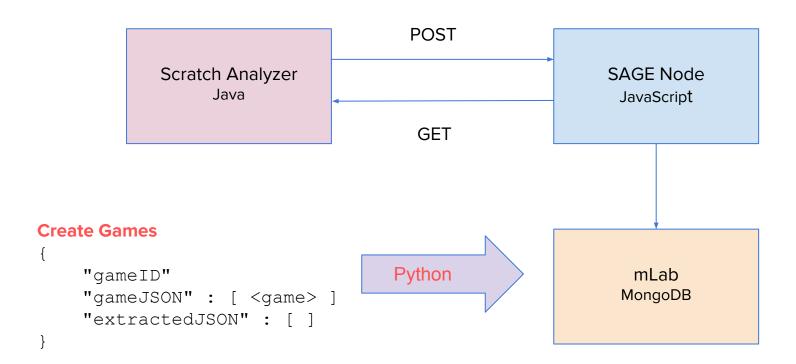
Chao-Yang Lo

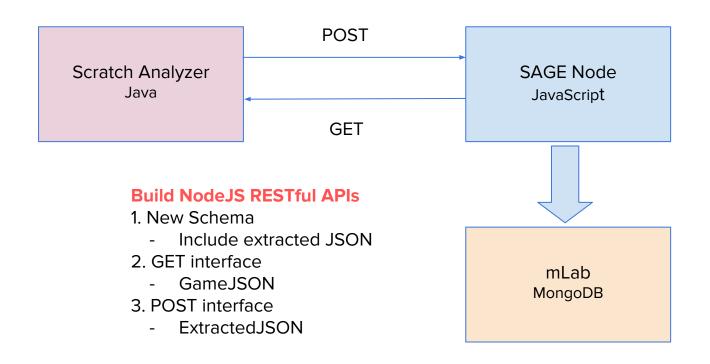
User Story

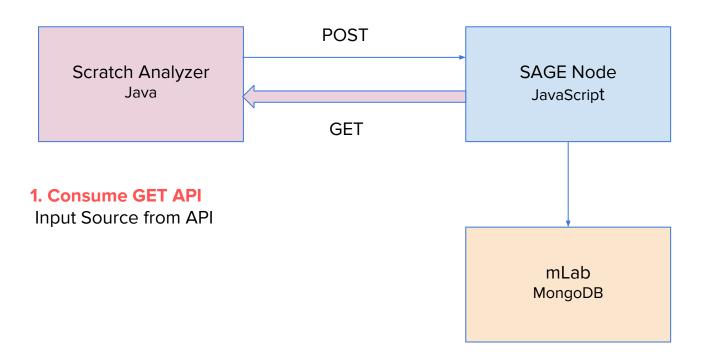
- Scratch Analyzer to Assessment Server Connectivity
- Programming Behavior Persistence
- sage-scratch Integration

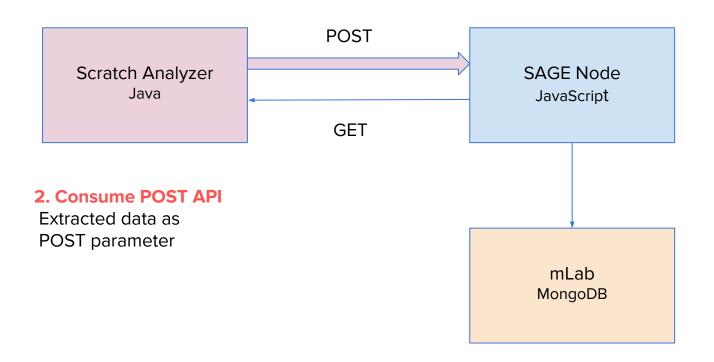
- Game Data stored in SAGE Node
- Update processed data in SAGE Node
- Accessible on Server instead of Local file System

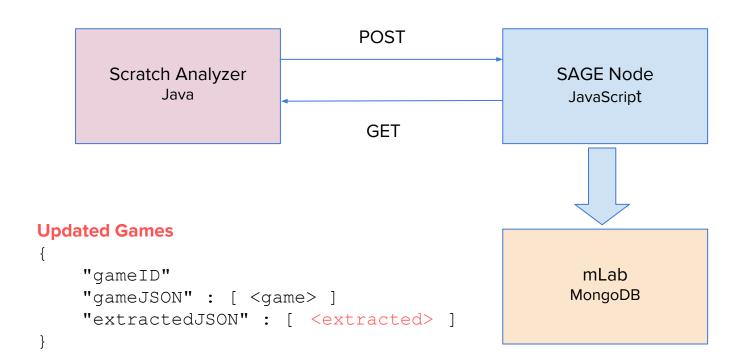








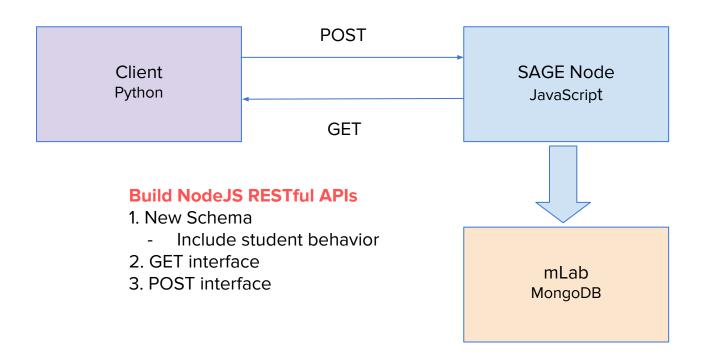


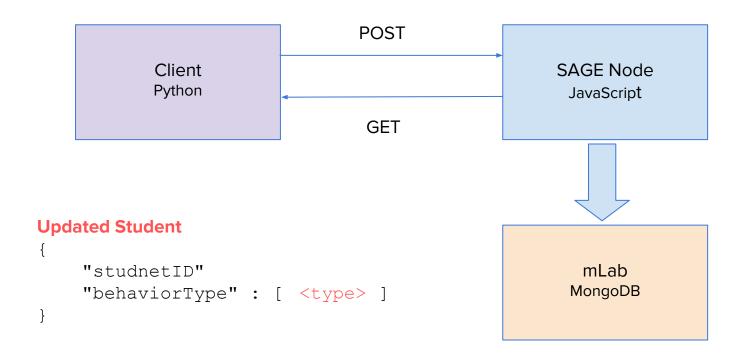


Technical Details

- Scratch Analyzer (Java) Spring Framework
- SAGE node (NodeJS) express.JS + mongoose

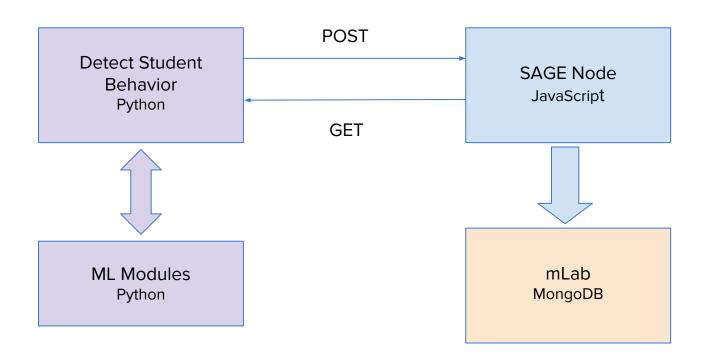
- Detected student behavior stored in mLab
- Accessible with RESTful APIs

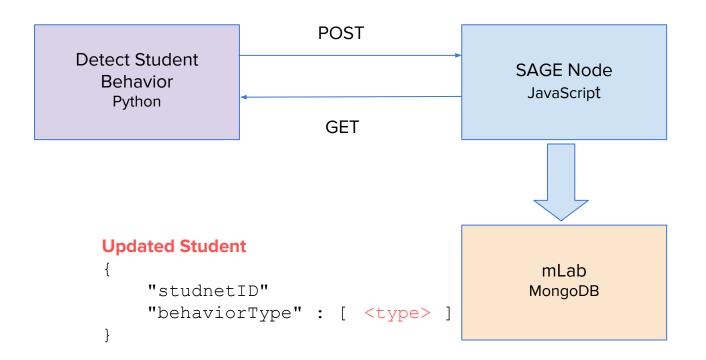




sage-scratch Integration

- Detect student behavior with games
- Integrate the whole workflow





Future Works

- Node-Scratch Integration
- Flexible database/collection interfaces at SAGE-Node
- Behavior Modeling via Researcher Role

Thank you!

Questions and Suggestions?

