Student Performance Tracker

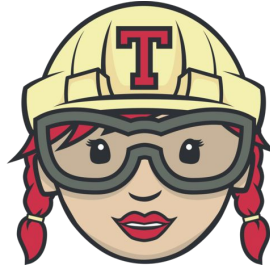Chad Baily, Luke Masters, Shivam Mehta, Dan Seymour, Aiden Smith, and Rice Tyler

Mark Floryan

- Mark floryan
  - Assistant Professor at UVA
  - Undergrad at UVa
  - PHD at the University of Massachusetts.
- His research leverages student data to facilitate development of intelligent education systems.

Technology Used

Requirements

As a student...

- Course topics are shown as nodes to make a mental map type system.
- Progress is shown on a topic level.
- Practice problems are provided to improve my ability on a specific topic, and improve my grade.
- There is a high level overview of all topics, their relationships and my current grades.
- Supporting documents are provided.

As a professor...

- An overview of all student's performance
- I want to view ALL topics in a class.
- I want to be able to upload a document that will set up a class.
- Connect third party API's to load grades and homework scores.
- I want to be able to search for a student and - view their progress.
-

Demo

Challenges

-   Dealing with an incomplete implementation of a framework (visjs)
-   Changing requirements for external connections
-   Understanding async operations
-   Understanding project architecture
-   Requirement changes

Requirement Changes

- DAN.
- Changes to make uploading more intuitive.
- Dynamic and Configurable Grading.

What Worked Well / Not So Well

The Good

- Floryan had a kid
- Team communication
- Pull requests
- Regular team meetings
- Commorodary

The Bad

- Floryan had a kid
- Not merging for a long time
- Only one person working on a feature
- Vue wrappers of JS libraries
- Communication of Customer Desires

Future work

- Better transfer of data across between previous courses and new courses.
- Improved uploading (remove from front-end)
- Refactoring certain structures
  - Lot of nested async requests that make ordering operations difficult
- Import external quizzes into our quiz suite
- Have a progress bar of expected progress through a course
- Link SPT to SIS such that topics become prerequisites of courses
- TA view / multiple professors to a course

Questions?

http://bit.ly/2U3JJdA

Why you are all here