Project 3: Building an Auto Grading System in PrairieLearn

MVP

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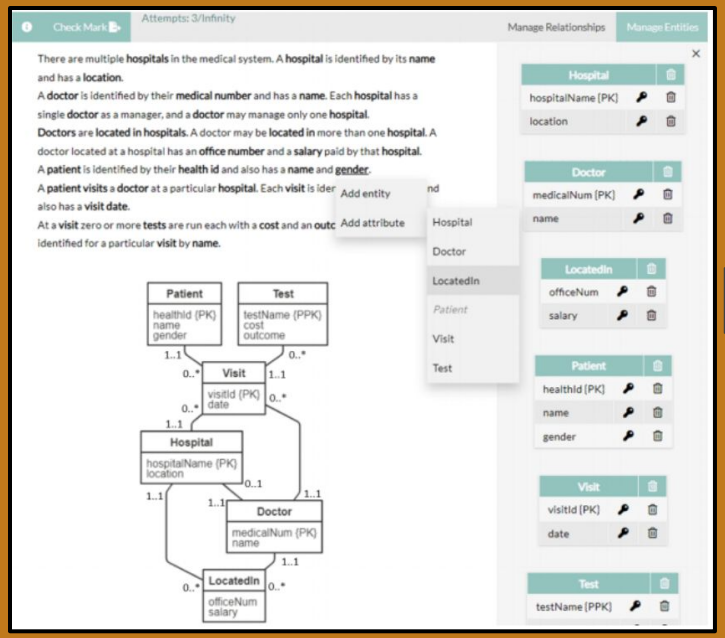
To Recall...

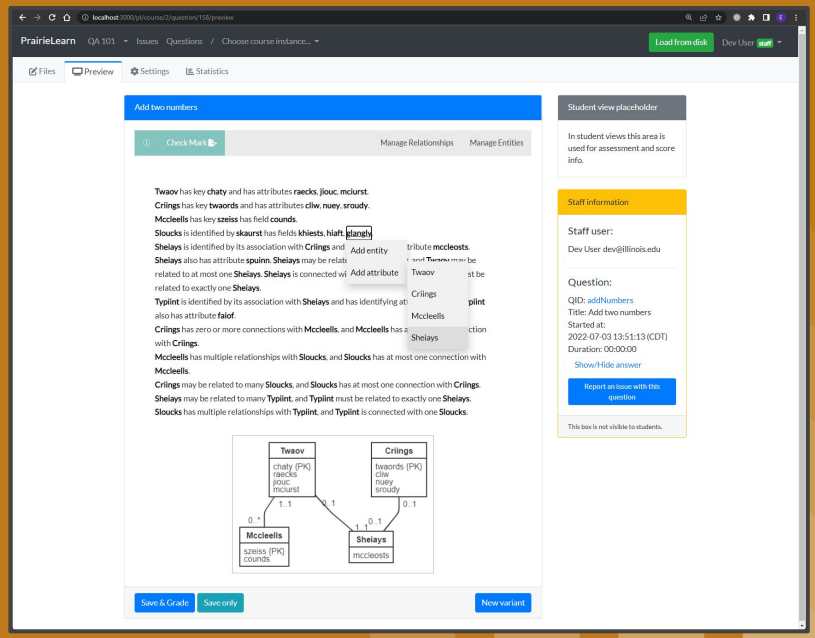
- **Project Focus:** Translate Already Existing AutoER Frontend to PrairieLearn.
- **What Is AutoER:** It Is A UML Generation Question That was Previously Completed By UBCO Students
- **What Is PrairieLearn:** It Is An Open Source Program That Is Dedicated To The Random Generation And Auto Grading For Students.

High Level Summary of Tasks Completed

- Import AutoER (Previous UML Generation Frontend).
- Prototyped Different Options for AutoER Importation.
- Ensure Auto Generation Properly Generates Question.
- Ensure User Submission is Properly Sent to Grading Function with Accurate Grading Including Partial Grades.
- Created Persistent Storage to Store Users Answer for Multiple Attempts.
- Added Feedback Functionality to Submitted Answers.
- Fixed UI Bugs From Caused by Importation of AutoER.

Successfully Imported AutoER Into PrairieLearn





Demo

Testing

Currently since we have been essentially reverse engineering PrairieLearn and the AutoER platform we have had very little testing created. Some test cases were included in AutoER to ensure the grading was being properly handled when comparing the user answer.

Tasks Remaining To Be Completed

- Converting Current UML Question into a Custom PrairieLearn Element.
- Adding Ability to Independently Set Questions to Not be Randomly Generated.
- Adding Capability to Edit Marking Schema.
- Improve Current Drawing System/Investigate Alternate Drawing System.
- PrairieLearn Deployment on Linux Server.

If Time Permits:

- Create SQL Question In the PrairieLearn System.

Hours To Date

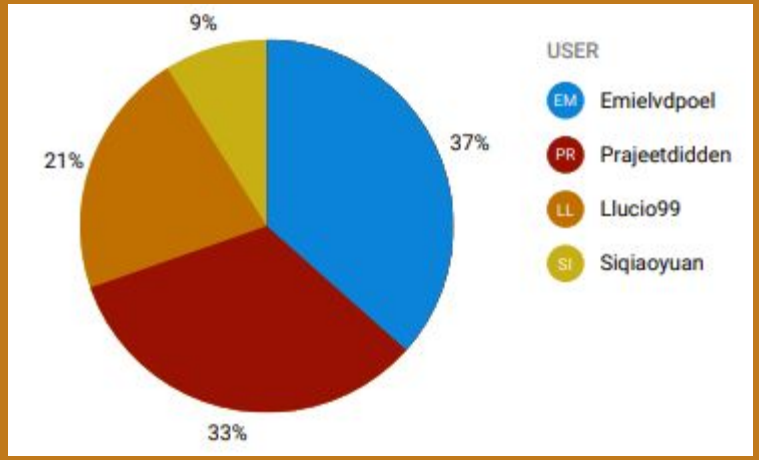
Luis Lucio - 33:42

Emiel van der Poel - 59:54

Prajeet Didden - 56:12

Siqiao Yuan - 18:07

Team Total - 167:56



Burn-up Chart

Burn-down Chart

60%

According to both our client and our WBS