CISP 1020

Group 1

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3/31/2018

Requirements specification:

We need to develop a program that:

* Features a user login that takes in a unique username as input.
* Features a new user wizard that allows new users to create an account that comes with role-specific features, whether student, teacher, or parent.
* Each role will have its own menu in the application.
* From the teacher menu, teachers will be able to search, sort, and list his/her students’ by name, score, or grade-level and have access to those students’ names, scores, and grade-levels. The teacher will also need the ability to specify the number of students he/she wants to supervise.
* From the student menu, students will be able to take grade-level specific quizzes with dynamically generated questions, including subtraction, addition, multiplication, and division, with feedback at the end. The student will also need the ability to specify his/her grade level to determine the difficulty of the problems generated.
* From the parent menu, parents will be able to access their students’ scores.
* The program will need to save the quiz results from the students in a text file that can be searched later.

Analysis process:

Design process:

Implementation process:

Testing process:

Discovering classes:

User, Teacher, Parents, Student, Main, Reader, Writer, Relationship, ProblemGenerator, AnswerParser,