
Use Cases

for

Parson's Problems Appliance for Learning Management Systems

Version 2.0 approved

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Use Case 1. Quiz Bank Generation

Use Case Name: Quiz Bank Generation

Iteration: 2.0

Summary: An instructor will upload a program, to be interpreted as a text file, which will be converted to a Parson's Problems bank of quiz questions, this output file can be uploaded to the instructor's target Learning Management System (LMS) where the instructor can form quizzes for their students selecting questions from the quiz bank this product produces.

Basic Course of Events:

1. User uploads a code sample file to the program.
2. User selects output file type, with reference to their target LMS to make quizzes with the produced quiz bank
3. User selects file lines to be grouped together in "blocks." Those lines remain in place for question generation.
4. User must choose parameters of
 - a. One to all types of questions to generate:
 - i. Matching (manually type into a fill in the blank prompt)
 - ii. Multiple choice (choose the correct line of code)
 - iii. Ordering (Choose the correct order of lines)
 - b. Maximum number of rearrangements of code blocks, thus (question answers). Up to 16. (Req
5. User makes optional annotations on the file - a space left for the reasoning of the correct order and choice of code, from the input file.
6. Program returns a file that contains generated quiz questions based on the instructor's requirements, of the target file format.

Alternative Paths: In step 1, if the files cannot be read, the program will alert the user. The file may not be able to be used by this program if the file does not contain enough lines (or line-breaks), to permute on.

Exception Paths: None

Extension Points: None

Trigger: User inputs file and chooses to activate quiz bank generation feature.

Assumptions:

1. User's system meets minimum system requirements
2. The user has downloaded and installed the program correctly

Precondition: The instructor uploaded the file successfully.

Postcondition: Quiz bank file in target file format is produced that can be accessed by the user, and downloaded to their local machine.

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Use Case Diagram for PPALMS

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