pytexexam

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Vu Ngoc Binh

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CHAPTER

ONE

PYTEXEXAM BUILDER CLASS

class pytexexam.builder.**ExamExportType**(*value*)

Class present all export exam options: PDF and TEX

class pytexexam.builder.**LatexExamBuilder**

Builder class to create exam,answer and solution paper

add_question(*question: str*, *answer: List[str]*, *true_answer: str*, *answer_column: int*, *solution: str = ''*)

Add question to exam

Parameters

- **question** – question stem
- **answer** – List of answers in order A, B, C, D
- **true_answer** – Answer key of true answer.
- **answer_column** – Number of columns used to present the answer
- **solution** – Solution for this question

create_answer(*file_dir: str*)

Create answer key paper

create_exam(*file_dir: str*)

Create exam paper

create_solution(*file_dir: str*)

Create solution paper

shuffle_all_question(*seed: Optional[int] = None*)

Shuffle all question in exam

Parameters **seed** – random seed

shuffle_answer(*not_shuffle=None*, *seed: Optional[int] = None*)

Shuffle question answer

Parameters

- **not_shuffle** – Index list of questions that do not shuffle answers
- **seed** – random seed

shuffle_question(*start_index: int*, *end_index: int*, *seed: Optional[int] = None*)

shuffle question from start_index to end_index

CHAPTER

TWO

PYTEXEXAM UTIL METHOD

pytexexam.latexexamutil.**add_multiple_package**(*package_list: List[str]*) → str
Generate latex code to add multiple package to preamble

Parameters **package_list** – List of package to add in preamble

pytexexam.latexexamutil.**ams_math_package**() → str
Returns the code needed to add in preamble to type math formula in latex

pytexexam.latexexamutil.**bold_title**(*text: str*) → str
Create bold title in exam header

Returns latex code

pytexexam.latexexamutil.**geometry_package**(*top: float*, *bottom: float*, *left: float*, *right: float*) → str
Generate latex code to add geometry package

Parameters

- **top** – top margin
- **bottom** – bottom margin
- **left** – left margin
- **right** – right margin

pytexexam.latexexamutil.**two_column_header**(*left: str*, *right: str*) → str
Create exam header with two column

Parameters

- **left** – left text
- **right** – right text

Returns Latex code

CHAPTER

THREE

OTHER CLASS

class pytexexam.answer.**Answer**(*answer_key: str*, *answer: str*, *is_true_answer=False*)
This class is used to store 1 answer in a question.

class pytexexam.exam.**Exam**(*question_list: List[question.Question]*)
This class represents an exam.

question_list
List of questions in the exam

shuffle_question(*seed: Optional[int] = None*)
This method allows to shuffle all the questions in the exam. :param seed: random seed

class pytexexam.question.**Question**(*question: str*, *answers: List[str]*, *true_answer: str*, *solution: str*, *answer_column: int*)
This class represents one question on the test.

answer_column
Number of columns for which the answer will be presented.

answers: List[answer.Answer]
Question answers

get_true_answer_key() → str
Get answer key of true answer

print_question_latex() → str
generate latex code for this question

print_solution_latex() → str
Generate latex code to print question and solution

question: str
Content of the question.

shuffle_answer()
Shuffle answer list

solution
Solution of the question

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