CLAIMS

What is claimed is:

1. A method for producing courseware of a classroom activity, comprising:

on a platform for producing the courseware of the classroom activity, in response to a triggering operation for producing the courseware of the classroom activity, displaying a page of producing courseware, and acquiring a target courseware-type identifier;

acquiring text content of a question input on the page of producing the courseware;

based on the target courseware-type identifier, acquiring a target structured analysis strategy correspondingly;

based on the target structured analysis strategy, analyzing the text content of the question to acquire structured text content of the classroom activity; and

based on the structured text content of the classroom activity, generating the courseware of the classroom activity;

wherein the target structured analysis strategy comprises a target structured analysis algorithm and a target question template, and the target question template comprises more than one structured filling region, and

analyzing the text content of the question based on the target structured analysis strategy to acquire the structured text content of the classroom activity, comprises:

based on the target structured analysis algorithm, analyzing the text content of the question to acquire a plurality of structured text content; and

filling the structured filling region with the structured text content correspondingly, and acquiring the structured text content of the classroom activity corresponding to the target question template;

wherein, when the target courseware-type identifier indicates a question of selecting words and filling blanks, the more than one structured filling region comprises a question-stem-content filling region, a blank filling region and a to-be-selected-word filling region, and

analyzing the text content of the question based on the target structured analysis algorithm to acquire the plurality of structured text content, comprises:

recognizing the text content of the question, and acquiring the number of candidate fill-in placeholders of each type preset in the text content of the question;

based on the number of the candidate fill-in placeholders of each type preset in the text content of the question, calculating confidence scores of the candidate fill-in placeholders of each type;

determining the candidate fill-in placeholder with the highest confidence score as a target fill-in placeholder, and acquiring position information of the target fill-in placeholder in the text content of the question; and

in the text content of the question, hollowing out a position corresponding to the position information as a space, determining text at the position corresponding to the position information as a word to be selected, and determining other text as content of a question stem to acquire the plurality of structured text content;

wherein, filling the structured filling region with the structured text content correspondingly and acquiring the structured text content of the classroom activity corresponding to the target question template, comprise:

filling the question-stem-content filling region, the blank filling region and the to-be-selected-word filling region with the content of the question stem, the space and the word to be selected respectively, and acquiring the structured text content of the classroom activity corresponding to the target question template.

2. The method for producing the courseware of the classroom activity of claim 1, wherein the platform for producing the courseware of the classroom activity stores more than one courseware-type identifier for the classroom activity and structured analysis strategies corresponding to each of the courseware-type identifiers for the classroom activity, and

based on the target courseware-type identifier, acquiring the target structured analysis strategy correspondingly, comprises:

based on the target courseware-type identifier, querying on the platform for producing the courseware of the classroom activity to acquire the target structured

analysis strategy corresponding to the target courseware-type identifier for the classroom activity.

3. The method for producing the courseware of the classroom activity of claim 1, wherein

based on the number of the candidate fill-in placeholders of each type preset in the text content of the question, calculating the confidence scores of the candidate fill-in placeholders of each type, comprises:

determining a product of the preset priority scores of the candidate fill-in placeholders of each type and the number of the candidate fill-in placeholders of each type preset in the text content of the question as the confidence scores of the candidate fill-in placeholders of each type.

4. The method for producing the courseware of the classroom activity of claim 1, wherein

when the target courseware-type identifier indicates a choice question, the more than one structured filling region comprises a question-stem-content filling region, an option-content filling region and an answer-content filling region,

based on the target structured analysis algorithm, analyzing the text content of the question to acquire the plurality of structured text content, comprises:

recognizing the text content of the question, and acquiring the number of questions and initial position and end position of each question;

acquiring the text content of the each question based on the number of questions and the initial position and the end position of the each question; and

structurally analyzing the text content of the each question to acquire content of a question stem, option content and answer content of the each question,

filling the structured filling region with the structured text content correspondingly, and acquiring the structured text content of the classroom activity corresponding to the target question template, comprise:

filling the question-stem-content filling region, the option-content filling region and the answer-content filling region with the content of the question stem, the option content and the answer content respectively, and acquiring the structured text content

of the classroom activity corresponding to the target question template.

5. The method for producing the courseware of the classroom activity of claim 1, wherein

when the courseware-type identifier indicates a judgment question, the more than one structured filling region comprises a question-stem-content filling region and an answer-content filling region,

based on the target structured analysis algorithm, analyzing the text content of the question to acquire the plurality of structured text content, comprises:

recognizing the text content of the question, and acquiring the number of questions and initial position and end position of each question;

acquiring the text content of the each question based on the number of questions and the initial position and the end position of the each question; and

structurally analyzing the text content of the each question to acquire a content of a question stem and answer content of the each question,

filling the structured filling region with the structured text content correspondingly and acquiring the structured text content of the classroom activity corresponding to the target question template, comprise:

filling the question-stem-content filling region and the answer-content filling region with the content of the question stem and the answer content in respectively, and acquiring the structured text content of the classroom activity corresponding to the target question template.

6. An apparatus for producing courseware of a classroom activity, comprising:

a page displaying module, configured to, on a platform for producing courseware of the classroom activity, in response to a triggering operation for producing the courseware of the classroom activity, display a page of producing the courseware, and acquire a target courseware-type identifier;

a question-text-content acquiring module, configured to acquire text content of a question input on the page of producing the courseware;

an analysis-strategy acquiring module, configured to, based on the target courseware-type identifier, acquire a target structured analysis strategy

correspondingly;

a structured-analysis module, configured to, based on the target structured analysis strategy, analyze the text content of the question to acquire structured text content of the classroom activity; and

a classroom-activity-courseware generating module, configured to, based on the structured text content of the classroom activity, generate the courseware of the classroom activity;

wherein, the target structured analysis strategy comprises a target structured analysis algorithm and a target question template, and the target question template comprises more than one structured filling region, wherein the structured-analysis module comprises:

a structured-text-content acquiring module, configured to, based on the target structured analysis algorithm, analyze the text content of the question to acquire a plurality of structured text content,

a structured-question-text-content acquiring module, configured to fill the structured filling region with the structured text content correspondingly, and acquire the structured text content of the classroom activity corresponding to the target question template;

wherein, when the target courseware-type identifier indicates a question of selecting words and filling blanks, the more than one structured filling region comprises a question-stem-content filling region, a blank filling region and a to-be-selected-word filling region, and wherein the structured-question-text-content acquiring module comprises:

a placeholder-quantity acquiring module, configured to recognize the text content of the question, and acquire the number of candidate fill-in placeholders of each type preset in the text content of the question,

a confidence-score calculating module, configured to, based on the number of the candidate fill-in placeholders of each type preset in the text content of the question, calculate confidence scores of the candidate fill-in placeholders of each type,

a position-information acquiring module, configured to determine the candidate

fill-in placeholder with the highest confidence score as a target fill-in placeholder, and acquire position information of the target fill-in placeholder in the text content of the question,

a first text-content acquiring module, configured to, in the text content of the question, hollow out a position corresponding to the position information as a space, determine text at the position corresponding to the position information as a word to be selected, and determine other text as content of a question stem to acquire the plurality of structured text content;

wherein the structured-question-text-content acquiring module comprises a first question-text acquiring module, and the first question-text acquiring module is configured to fill the question-stem-content filling region, the blank filling region and the to-be-selected-word filling region with the content of the question stem, the space and the word to be selected respectively, and acquire the structured text content of the classroom activity corresponding to the target question template.

7. An electronic device, comprising:

a processor; and

a memory storing computer program,

wherein the computer program is adapted to be loaded by the processor and execute the method for producing the courseware of the classroom activity of any one of claims 1-5.

8. A computer-readable storage medium, on which computer program is stored, wherein the computer program, when executed by a processor, performs the method for producing the courseware of the classroom activity of any one of claims 1-5.