[Create Quiz]

Technical Document

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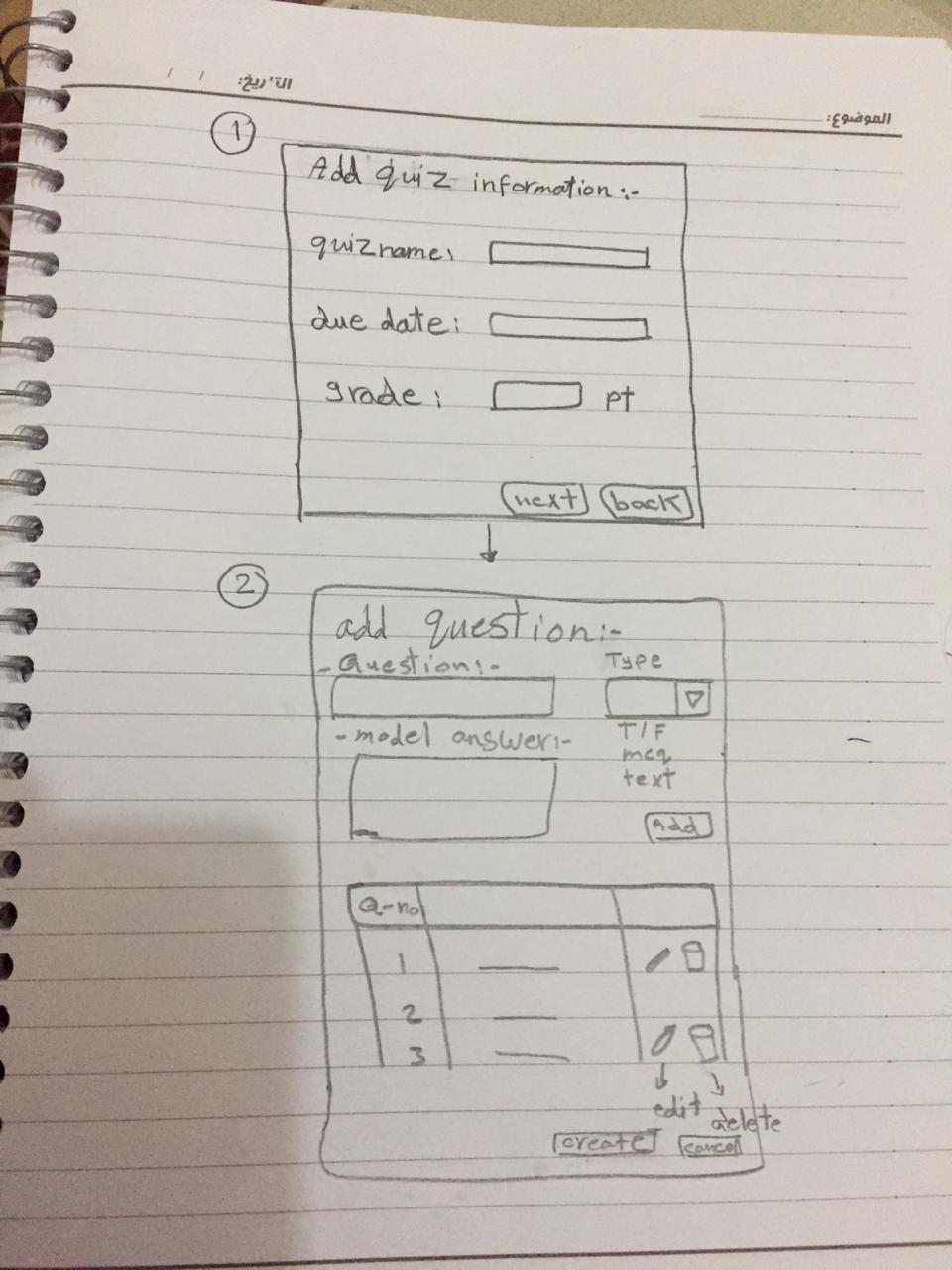
# [Task Name]

Refer to: [Taiga URL]

## Description

Create quiz and add questions to it .

## Mockup screen:



## Angular & Spring Models

|  |  |  |  |
| --- | --- | --- | --- |
| **New** | **Class Name** | QuizDTO | |
| **Angular Path** | | app/modules/course/shared/data/quiz/quiz-dto.ts | |
| **Spring Path** | | model/course/QuizDTO | |
| **Fields** | | | |
| **Attribute** | | **Angular Data Type** | **Spring Data Type** |
| id | | number | int |
| quizName | | string | String |
| grade | | number | int |
| dueDate | | DATE | Date |
| courseID | | number | int |

|  |  |  |  |
| --- | --- | --- | --- |
| **New** | **Class Name** | QuestionType | |
| **Angular Path** | | app/modules/course/shared/data/quiz/question-type.ts | |
| **Spring Path** | | model/lookup/QueestionType | |
| **Fields** | | | |
| **Attribute** | | **Angular Data Type** | **Spring Data Type** |
| id | | number | int |
| labelEN | | string | String |

|  |  |  |  |
| --- | --- | --- | --- |
| **New** | **Class Name** | QuestionDTO | |
| **Angular Path** | | app/modules/course/shared/data/quiz/question-dto.ts | |
| **Spring Path** | | model/course/QuestionDTO | |
| **Fields** | | | |
| **Attribute** | | **Data Type** | **Spring Data Type** |
| id | | number | int |
| quizID | | number | int |
| questionTypeID | | number | int |
| question | | string | String |
| modelAnswer | | string | String |
| answer1 | | string | String |
| answer2 | | string | String |
| answer3 | | string | String |
| answer4 | | string | String |

## Angular Component

|  |  |  |
| --- | --- | --- |
| **New** | **Class Name** | CreateQuiz |
| **Path** | | app/modules/course/components/quiz/create-quiz.component.[ts/html] |

|  |  |  |
| --- | --- | --- |
| **New** | **Class Name** | QuizService |
| **Path** | | app/modules/course/shared/quiz.service.ts |
| **Function** | | createNewQuiz(quiz: QuizDTO)  addQuizQuestion(question: QuestionDTO) |

|  |  |  |
| --- | --- | --- |
| **New** | **Class Name** | LookupService |
| **Path** | | app/infrastructure/services/lookup.service |
| **Function** | | getAllQuestionsTypes() ; |

## Rest Services

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **New** | **Name** | | api/quiz/ | | | **Method** | POST |
| **Controller** | | | QuizRes | | | **Function** | createQuiz(QuizDTO) |
| **REST Parameter** | | | | | | | |
| **Attribute** | | **Parameter Type** | | **Data Type** | **Description** | | |
| quiz | | Payload | | QuizDTO |  | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **New** | **Name** | | /api/lookup/questionTypes | | | **Method** | GET |
| **Controller** | | | LookupRes | | | **Function** | getAllQuestionTypes() |
| **REST Parameter** | | | | | | | |
| **Attribute** | | **Parameter Type** | | **Data Type** | **Description** | | |
| N/A | | N/A | | N/A |  | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **New** | **Name** | | /api/quiz/question/ | | **Method** | | POST |
| **Controller** | | | QuizRes | | **Function** | | createQuizQuestions (List<QuestionDTO> questions) |
| **REST Parameter** | | | | | | | |
| **Attribute** | | **Parameter Type** | | **Data Type** | | **Description** | |
| quetions | | Payload | | List<QuestionDTO> | |  | |

## Spring Services:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | QuizSer | **Function** | createQuiz(QuizDTO quiz) |
| **Description** | | Add New quiz | | |
| **Steps** | | | | |
| 1. Check if the user is Instructor 2. Validate quiz Data 3. Insert quiz Data in Database 4. Return the Quiz ID after creation (Yara can help you with that) | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | QuizSer | **Function** | createQuestions(QuestionDTO[]) |
| **Description** | | Add quiz questions | | |
| **Steps** | | | | |
| 1-Insert question Data in Database | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | LookupSer | **Function** | getallQuestionsType() |
| **Description** | | Get available Types of the questions | | |
| **Steps** | | | | |
| 1. Select types of questions from database. | | | | |

## Repository Functions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | QuizRep | **Type** | Insert SQL |
| **Function** | | insertNewQuiz(QuizInfoDTO quiz) | | |
| **Query** | | | | |
| INSERT INTO quiz (quiz\_name, due\_date,grade ) VALUES (?, ?, ?) | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | QuizRep | **Type** | Insert SQL |
| **Function** | | insertNewQuestion(QuestionDTO question) | | |
| **Query** | | | | |
| INSERT INTO question (questionvalue, model answer ) VALUES (?, ?) | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Name** | QuizRep | **Type** | Select SQL |
| **Function** | | getAllQuestionsTypes() | | |
| **Query** | | | | |
| SELECT \* from question\_type ; | | | | |

## Database Script:

## ER Diagram:

