Exam Documentation (3 - 12 - 2024)

Exams API Documentation

Admin Endpoints

BaseURL: /dashboard/

1. Question Category Endpoints

List and Create Question Categories

```
    URL: /question-categories/
    Method: GET, POST
    Permissions: IsAuthenticated, IsAdminUser
    Query Params:

            year (optional): Filter by year ID.
```

• Request Body (POST):

```
{
  "title": "string",
  "year": "integer"
}
```

• Response (GET):

```
[
    "id": "integer",
    "title": "string",
    "year": "integer"
    }
]
```

• Response (POST):

```
{
  "id": "integer",
  "title": "string",
  "year": "integer"
}
```

```
URL: /question-categories/<int:pk>/
```

- Method: GET, PUT, PATCH, DELETE
- Permissions: IsAuthenticated, IsAdminUser
- Response (GET):

```
{
  "id": "integer",
  "title": "string",
  "year": "integer"
}
```

• Request Body (PUT/PATCH):

```
{
  "title": "string",
  "year": "integer"
}
```

• Response (DELETE):

```
{
  "detail": "Question category deleted successfully."
}
```

2. Question Endpoints

List and Create Questions

```
URL: /questions/Method: GET, POST
```

- Permissions: IsAuthenticated, IsAdminUser
- Query Params:
 - category_year: Filter by category year.
 - category: Filter by category ID.
 - unit: Filter by unit ID.
 - lesson: Filter by lesson ID.
 - is_active: Filter by active status.
 - difficulty: Filter by difficulty level.
 - search: Search by question text.
- Request Body (POST):

```
{
  "text": "string",
  "image": "file",
```

```
"points": "integer",
  "difficulty": "string",
  "category": "integer",
  "lesson": "integer",
  "unit": "integer",
  "is_active": "boolean",
  "answers": [
    {
       "text": "string",
       "image": "file",
       "is_correct": "boolean"
    }
]
```

• Response (GET):

```
"count": "integer",
  "results": [
   {
      "id": "integer",
      "text": "string",
      "image": "string",
      "points": "integer",
      "difficulty": "string",
      "category": "integer",
      "lesson": "integer",
      "unit": "integer",
      "is_active": "boolean",
      "answers": [
          "id": "integer",
          "text": "string",
          "image": "string"
      ]
    }
  ],
  "statistics": {
    "num_active_questions": "integer",
    "num_easy_questions": "integer",
    "num_medium_questions": "integer",
    "num_hard_questions": "integer"
  }
}
```

• Response (POST):

```
{
    "id": "integer",
```

```
"text": "string",
  "image": "string",
  "points": "integer",
  "difficulty": "string",
  "category": "integer",
  "lesson": "integer",
  "unit": "integer",
  "is_active": "boolean",
  "answers": [
   {
      "id": "integer",
      "text": "string",
      "image": "string",
      "is correct": "boolean"
    }
  ]
}
```

Retrieve, Update, Delete Question

```
    URL: /questions/<int:pk>/
    Method: GET, PUT, PATCH, DELETE
    Permissions: IsAuthenticated, IsAdminUser
    Response (GET):
```

```
"id": "integer",
  "text": "string",
  "image": "string",
  "points": "integer",
  "difficulty": "string",
  "category": "integer",
  "lesson": "integer",
  "unit": "integer",
  "is_active": "boolean",
  "answers": [
   {
      "id": "integer",
      "text": "string",
      "image": "string",
      "is correct": "boolean"
    }
  ]
}
```

• Request Body (PUT/PATCH):

```
{
  "text": "string",
```

```
"image": "file",
  "points": "integer",
  "difficulty": "string",
  "category": "integer",
  "lesson": "integer",
  "unit": "integer",
  "is_active": "boolean",
  "answers": [
      {
            "text": "string",
            "image": "file",
            "is_correct": "boolean"
      }
  ]
}
```

• Response (DELETE):

```
{
  "detail": "Question deleted successfully."
}
```

3. Answer Endpoints

List Answers for a Question

```
URL: /questions/<int:pk>/answers/
```

Method: GET

• Permissions: IsAuthenticated, IsAdminUser

• Response:

```
[
    "id": "integer",
    "text": "string",
    "image": "string"
}
]
```

List and Create Answers

```
• URL: /answers/
```

Method: GET, POST

• Permissions: IsAuthenticated, IsAdminUser

• Request Body (POST):

```
{
  "text": "string",
  "image": "file",
  "is_correct": "boolean",
  "question": "integer"
}
```

• Response (GET):

```
[
    "id": "integer",
    "text": "string",
    "image": "string",
    "is_correct": "boolean",
    "question": "integer"
}
]
```

• Response (POST):

```
"id": "integer",
  "text": "string",
  "image": "string",
  "is_correct": "boolean",
  "question": "integer"
}
```

Retrieve, Update, Delete Answer

```
URL: /answers/<int:pk>/Method: GET, PUT, PATCH, DELETEPermissions: IsAuthenticated, IsAdminUser
```

• Response (GET):

```
{
  "id": "integer",
  "text": "string",
  "image": "string",
  "is_correct": "boolean",
  "question": "integer"
}
```

• Request Body (PUT/PATCH):

```
{
  "text": "string",
  "image": "file",
  "is_correct": "boolean",
  "question": "integer"
}
```

• Response (DELETE):

```
{
   "detail": "Answer deleted successfully."
}
```

4. Question Count Endpoint

Get Question Counts

```
• URL: /questions/count/
```

Method: GET

• Permissions: IsAuthenticated

• Query Params:

is_active: Filter by active status.

category: Filter by category ID.

• lesson: Filter by lesson ID.

• unit: Filter by unit ID.

course: Filter by course ID.

• Response:

```
{
  "count": "integer",
  "easy": "integer",
  "medium": "integer",
  "hard": "integer"
}
```

5. Exam Endpoints

List and Create Exams

```
    URL: /exams/
    Method: GET, POST
    Permissions: IsAuthenticated, IsAdminUser
    Query Params:
```

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related_to: Filter by related to (UNIT/LESSON).

```
is_active: Filter by active status.unit: Filter by unit ID.lesson: Filter by lesson ID.
```

• status: Filter by exam status (soon, active, finished).

• Request Body (POST):

type: Filter by exam type.

```
"title": "string",
  "description": "string",
  "related_to": "string",
  "unit": "integer",
  "lesson": "integer",
  "number_of_questions": "integer",
  "time_limit": "integer",
  "score": "float",
  "passing_percent": "integer",
  "start": "datetime",
  "end": "datetime",
  "number_of_allowed_trials": "integer",
  "type": "string",
  "easy_questions_count": "integer",
  "medium questions count": "integer",
  "hard_questions_count": "integer",
  "show_answers_after_finish": "boolean",
  "order": "integer",
  "is_active": "boolean",
  "allow_show_results_at": "datetime"
}
```

Response (GET):

```
[
 {
   "id": "integer",
   "title": "string",
    "description": "string",
    "related to": "string",
    "unit": "integer",
    "lesson": "integer",
    "number_of_questions": "integer",
    "time_limit": "integer",
    "score": "float",
    "passing_percent": "integer",
    "start": "datetime",
    "end": "datetime",
    "number_of_allowed_trials": "integer",
    "type": "string",
    "easy_questions_count": "integer",
    "medium_questions_count": "integer",
```

```
"hard_questions_count": "integer",
    "show_answers_after_finish": "boolean",
    "order": "integer",
    "is_active": "boolean",
    "created": "datetime",
    "status": "string",
    "allow_show_results_at": "datetime"
}
```

• Response (POST):

```
{
  "id": "integer",
 "title": "string",
 "description": "string",
  "related_to": "string",
  "unit": "integer",
  "lesson": "integer",
  "number_of_questions": "integer",
  "time limit": "integer",
  "score": "float",
  "passing_percent": "integer",
  "start": "datetime",
  "end": "datetime",
  "number_of_allowed_trials": "integer",
  "type": "string",
  "easy_questions_count": "integer",
  "medium_questions_count": "integer",
  "hard questions count": "integer",
  "show_answers_after_finish": "boolean",
  "order": "integer",
  "is_active": "boolean",
  "created": "datetime",
 "status": "string",
  "allow_show_results_at": "datetime"
}
```

Retrieve, Update, Delete Exam

```
• URL: /exams/<int:pk>/
• Method: GET, PUT, PATCH, DELETE
• Permissions: IsAuthenticated, IsAdminUser
• Response (GET):

{
    "id": "integer",
    "title": "string",
    "description": "string",
```

```
"related_to": "string",
  "unit": "integer",
  "lesson": "integer",
  "number_of_questions": "integer",
  "time limit": "integer",
  "score": "float",
  "passing_percent": "integer",
  "start": "datetime",
  "end": "datetime",
  "number_of_allowed_trials": "integer",
  "type": "string",
  "easy_questions_count": "integer",
  "medium_questions_count": "integer",
  "hard questions count": "integer",
  "show_answers_after_finish": "boolean",
  "order": "integer",
 "is active": "boolean",
  "created": "datetime",
 "status": "string",
 "allow_show_results_at": "datetime"
}
```

• Request Body (PUT/PATCH):

```
{
 "title": "string",
 "description": "string",
  "related_to": "string",
  "unit": "integer",
  "lesson": "integer",
  "number_of_questions": "integer",
  "time_limit": "integer",
  "score": "float",
  "passing_percent": "integer",
  "start": "datetime",
  "end": "datetime",
  "number_of_allowed_trials": "integer",
  "type": "string",
  "easy_questions_count": "integer",
  "medium_questions_count": "integer",
  "hard_questions_count": "integer",
  "show_answers_after_finish": "boolean",
 "order": "integer",
  "is active": "boolean",
  "allow_show_results_at": "datetime"
}
```

• Response (DELETE):

```
{
    "detail": "Exam deleted successfully."
```

• Response:

6. Exam Questions Endpoints

Get Exam Questions

```
URL: /exams/<int:exam_id>/questions/Method: GETPermissions: IsAuthenticated, IsAdminUser
```

```
"exam_id": "integer",
  "exam_title": "string",
  "questions": [
   {
      "id": "integer",
      "text": "string",
      "image": "string",
      "points": "integer",
      "difficulty": "string",
      "category": "integer",
      "lesson": "integer",
      "unit": "integer",
      "is_active": "boolean",
      "answers": [
          "id": "integer",
          "text": "string",
          "image": "string"
      ]
    }
  ]
}
```

Remove Exam Question

```
• URL: /exams/<int:exam_id>/questions/<int:question_id>/
• Method: DELETE
• Permissions: IsAuthenticated, IsAdminUser
• Response:

{
    "success": "Question removed from exam"
}
```

Add Exam Questions

```
URL: /exams/<int:exam_id>/add-questions/
```

- Method: POST
- Permissions: IsAuthenticated, IsAdminUser
- Request Body:

```
{
   "questions_ids": [
     "integer"
]
}
```

• Response:

```
{
   "message": "Questions successfully added to the exam"
}
```

7. Random Exam Bank Endpoints

Manage Random Exam Bank

- URL: /exams/<int:exam_id>/random-bank/
- Method: POST, GET
- Permissions: IsAuthenticated, IsAdminUser
- Request Body (POST):

```
{
   "question_ids": [
    "integer"
]
}
```

• Response (POST):

```
{
   "message": "Questions successfully added to the random exam bank"
}
```

• Response (GET):

```
{
  "exam": "integer",
  "questions": [
```

```
"id": "integer",
      "text": "string",
      "image": "string",
      "points": "integer",
      "difficulty": "string",
      "category": "integer",
      "lesson": "integer",
      "unit": "integer",
      "is_active": "boolean",
      "answers": [
          "id": "integer",
          "text": "string",
          "image": "string"
      1
    }
  ]
}
```

8. Exam Model Endpoints

List and Create Exam Models

```
    URL: /exammodels/
    Method: GET, POST
    Permissions: IsAuthenticated, IsAdminUser
    Query Params:

            is_active: Filter by active status.
            exam: Filter by exam ID.

    Request Body (POST):
```

```
{
   "exam": "integer",
   "title": "string",
   "is_active": "boolean"
}
```

• Response (GET):

```
[
    "id": "integer",
    "exam": "integer",
    "title": "string",
    "is_active": "boolean",
    "created": "datetime"
```

```
}
```

• Response (POST):

```
"id": "integer",
   "exam": "integer",
   "title": "string",
   "is_active": "boolean",
   "created": "datetime"
}
```

Retrieve, Update, Delete Exam Model

```
URL: /exammodels/<int:pk>/
```

- Method: GET, PUT, PATCH, DELETE
- Permissions: IsAuthenticated, IsAdminUser
- Response (GET):

```
"id": "integer",
   "exam": "integer",
   "title": "string",
   "is_active": "boolean",
   "created": "datetime"
}
```

• Request Body (PUT/PATCH):

```
{
  "exam": "integer",
  "title": "string",
  "is_active": "boolean"
}
```

• Response (DELETE):

```
{
  "detail": "Exam model deleted successfully."
}
```

9. Exam Model Questions Endpoints

Get Exam Model Questions

- URL: /exams/models/<int:exam_model_id>/questions/
- Method: GET
- Permissions: IsAuthenticated, IsAdminUser
- Response:

Remove Question from Exam Model

- URL: /exams/models/<int:exam_model_id>/questions/<int:question_id>/
- Method: DELETE
- Permissions: IsAuthenticated, IsAdminUser
- Response:

```
{
   "message": "Question successfully removed from the exam model"
}
```

Add Single Question to Exam Model

- URL: /exams/<int:exam_id>/exam-model/<int:exam_model_id>/add-single-question/
- Method: POST
- Permissions: IsAuthenticated, IsAdminUser
- Request Body:

```
{
   "question_id": "integer"
}
```

• Response:

```
"message": "Question added to the exam model successfully.",
   "model_id": "integer",
   "question_id": "integer",
   "question_text": "string",
   "current_questions_count": "integer",
   "max_questions_count": "integer"
}
```

10. Suggest Questions for Exam Model

Suggest Questions for Model

```
URL: /exams/<int:exam_id>/suggest-questions/
```

Method: GET

• Permissions: IsAuthenticated, IsAdminUser

• Response:

```
"exam_id": "integer",
  "exam_title": "string",
  "questions": [
      "id": "integer",
      "text": "string",
      "image": "string",
      "points": "integer",
      "difficulty": "string",
      "category": "integer",
      "lesson": "integer",
      "unit": "integer",
      "is_active": "boolean",
      "answers": [
        {
          "id": "integer",
          "text": "string",
          "image": "string"
      1
    }
  ]
}
```

11. Add Questions to Exam Model

- URL: /exams/<int:exam_id>/exam-model/<int:exam_model_id>/add-questions/
- Method: POST
- Permissions: IsAuthenticated, IsAdminUser
- Request Body:

```
{
   "question_ids": [
     "integer"
]
}
```

• Response:

```
{
   "message": "Questions added to the exam model successfully",
   "model_id": "integer",
   "title": "string",
   "questions_count": "integer"
}
```

12. Results Endpoints

List Results

- URL: /exams/results/
- Method: GET
- Permissions: IsAuthenticated, IsAdminUser
- Query Params:
 - student: Filter by student ID.
 - exam: Filter by exam ID.
 - is_succeeded: Filter by success status.
 - search: Search by student name or exam title.
- Response:

```
[
    "id": "integer",
    "student": {
        "id": "integer",
        "name": "string"
    },
    "exam": {
        "id": "integer",
        "title": "string"
    },
    "score": "float",
```

```
"exam_score": "float",
    "trial": "integer",
    "is_trials_finished": "boolean",
    "is_succeeded": "boolean",
    "added": "datetime"
}
```

Get Student Result

- URL: /exams/<int:exam_id>/students/<int:student_id>/result/
- Method: GET
- Permissions: IsAuthenticated, IsAdminUser
- Response:

```
"exam_id": "integer",
 "exam_title": "string",
  "exam_description": "string",
  "exam_score": "float",
  "student_id": "integer",
  "student_name": "string",
  "student_score": "float",
  "is_succeeded": "boolean",
  "student_trials": "integer",
  "is_trials_finished": "boolean",
  "student_answers": [
      "question_id": "integer",
     "question_text": "string",
      "selected_answer": "string",
      "is correct": "boolean"
    }
  ],
  "correct_answers": [
      "question_id": "integer",
      "question_text": "string",
      "correct_answers": [
        "string"
      1
    }
  ]
}
```

1. Start Exam

Start an Exam

```
URL: /<int:exam_id>/start/Method: GET
```

• Permissions: IsAuthenticated

• Response:

```
{
  "exam_id": "integer",
  "exam_title": "string",
  "questions": [
      "id": "integer",
      "text": "string",
      "image": "string",
      "points": "integer",
      "difficulty": "string",
      "category": "integer",
      "lesson": "integer",
      "unit": "integer",
      "is_active": "boolean",
      "answers": [
          "id": "integer",
          "text": "string",
          "image": "string"
        }
      ],
      "correct_answers": [
        "string"
      ]
    }
  ],
  "exam_model": {
   "id": "integer",
   "title": "string"
  }
}
```

2. Submit Exam

Submit an Exam

```
URL: /<int:exam_id>/submit/
```

Method: POST

- Permissions: IsAuthenticated
- Request Body:

• Response:

```
"message": "Submission successful",
  "result": {
   "exam_id": "integer",
    "exam_title": "string",
    "exam_description": "string",
    "exam_score": "float",
    "student_id": "integer",
    "student_name": "string",
    "student_score": "float",
    "is_succeeded": "boolean",
    "student_trials": "integer",
    "is_trials_finished": "boolean",
    "student_answers": [
        "question_id": "integer",
        "question_text": "string",
        "selected_answer": "string",
        "is_correct": "boolean"
      }
    ],
    "correct_answers": [
      {
        "question_id": "integer",
        "question_text": "string",
        "correct answers": [
          "string"
      }
    ]
  }
}
```

3. Get My Exam Result

Get My Exam Result

```
URL: /<int:exam_id>/result/
```

• Method: GET

• Permissions: IsAuthenticated

• Response:

```
{
  "exam_id": "integer",
 "exam_title": "string",
 "exam_description": "string",
  "exam_score": "float",
  "student_id": "integer",
 "student_name": "string",
  "student_score": "float",
  "is_succeeded": "boolean",
  "student_trials": "integer",
  "is_trials_finished": "boolean",
  "student_answers": [
   {
      "question_id": "integer",
     "question_text": "string",
      "selected_answer": "string",
      "is_correct": "boolean"
    }
  ],
  "correct_answers": [
   {
      "question_id": "integer",
      "question_text": "string",
      "correct_answers": [
        "string"
    }
 ]
}
```