


Pretty-print 

```
{
  "openapi": "3.0.1",
  "info": {
    "title": "Quiz API",
    "description": "Quiz Application APIs",
    "version": "1.0"
  },
  "servers": [
    {
      "url": "http://localhost:8080",
      "description": "Generated server url"
    }
  ],
  "paths": {
    "/api/questions/{id}": {
      "get": {
        "tags": [
          "Questions"
        ],
        "summary": "Get question by id",
        "operationId": "getQuestionById",
        "parameters": [
          {
            "name": "id",
            "in": "path",
            "required": true,
            "schema": {
              "type": "integer",
              "format": "int64"
            }
          }
        ],
        "responses": {
          "200": {
            "description": "OK",
            "content": {
              "*/*": {
                "schema": {
                  "$ref": "#/components/schemas/Question"
                }
              }
            }
          }
        }
      },
      "put": {
        "tags": [
          "Questions"
        ],
        "summary": "Update question",
        "operationId": "updateQuestion",
        "parameters": [
          {
            "name": "id",
            "in": "path",
            "required": true,
            "schema": {
              "type": "integer",
              "format": "int64"
            }
          }
        ],
        "requestBody": {
          "content": {
            "application/json": {
              "schema": {
                "$ref": "#/components/schemas/Question"
              }
            }
          }
        }
      }
    }
  }
}
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    },
    "required": true
  },
  "responses": {
    "200": {
      "description": "OK",
      "content": {
        "*/*": {
          "schema": {
            "$ref": "#/components/schemas/Question"
          }
        }
      }
    }
  }
},
"delete": {
  "tags": [
    "Questions"
  ],
  "summary": "Delete question",
  "operationId": "deleteQuestion",
  "parameters": [
    {
      "name": "id",
      "in": "path",
      "required": true,
      "schema": {
        "type": "integer",
        "format": "int64"
      }
    }
  ],
  "responses": {
    "200": {
      "description": "OK"
    }
  }
},
"/api/quizzes": {
  "post": {
    "tags": [
      "Quizzes"
    ],
    "summary": "Create a quiz (provide title and questionIds)",
    "operationId": "createQuiz",
    "requestBody": {
      "content": {
        "application/json": {
          "schema": {
            "type": "object",
            "additionalProperties": {
              "type": "object"
            }
          }
        }
      }
    },
    "required": true
  },
  "responses": {
    "200": {
      "description": "OK",
      "content": {
        "*/*": {
          "schema": {
            "$ref": "#/components/schemas/Quiz"
          }
        }
      }
    }
  }
}

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    }
  }
}
},
"/api/quizzes/{id}/submit": {
  "post": {
    "tags": [
      "Quizzes"
    ],
    "summary": "Submit quiz answers (list of {questionId, response})",
    "operationId": "submitQuiz",
    "parameters": [
      {
        "name": "id",
        "in": "path",
        "required": true,
        "schema": {
          "type": "integer",
          "format": "int64"
        }
      }
    ],
    "requestBody": {
      "content": {
        "application/json": {
          "schema": {
            "type": "array",
            "items": {
              "$ref": "#/components/schemas/Response"
            }
          }
        }
      }
    },
    "required": true
  },
  "responses": {
    "200": {
      "description": "OK",
      "content": {
        "*/*": {
          "schema": {
            "type": "object",
            "additionalProperties": {
              "type": "integer",
              "format": "int32"
            }
          }
        }
      }
    }
  }
},
"/api/questions": {
  "get": {
    "tags": [
      "Questions"
    ],
    "summary": "Get paginated questions",
    "operationId": "getAllQuestions",
    "parameters": [
      {
        "name": "pageable",
        "in": "query",
        "required": true,
        "schema": {

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    }
  },
  "responses": {
    "200": {
      "description": "OK",
      "content": {
        "*/*": {
          "schema": {
            "$ref": "#/components/schemas/PageQuestion"
          }
        }
      }
    }
  }
},
"post": {
  "tags": [
    "Questions"
  ],
  "summary": "Create question",
  "operationId": "createQuestion",
  "requestBody": {
    "content": {
      "application/json": {
        "schema": {
          "$ref": "#/components/schemas/Question"
        }
      }
    }
  },
  "required": true
},
"responses": {
  "200": {
    "description": "OK",
    "content": {
      "*/*": {
        "schema": {
          "$ref": "#/components/schemas/Question"
        }
      }
    }
  }
}
},
"/api/quizzes/{id}": {
  "get": {
    "tags": [
      "Quizzes"
    ],
    "summary": "Get wrapped quiz questions (without answers)",
    "operationId": "getQuizQuestions",
    "parameters": [
      {
        "name": "id",
        "in": "path",
        "required": true,
        "schema": {
          "type": "integer",
          "format": "int64"
        }
      }
    ],
    "responses": {
      "200": {
        "description": "OK",
        "content": {

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        "schema": {
          "type": "array",
          "items": {
            "$ref": "#/components/schemas/QuestionWrapper"
          }
        }
      }
    }
  },
  "/api/questions/questions/difficulty/{difficultyLevel}": {
    "get": {
      "tags": [
        "Questions"
      ],
      "summary": "Get questions by difficulty level",
      "operationId": "getQuestionsByDifficulty",
      "parameters": [
        {
          "name": "difficultyLevel",
          "in": "path",
          "required": true,
          "schema": {
            "type": "string"
          }
        }
      ],
      "responses": {
        "200": {
          "description": "OK",
          "content": {
            "*/*": {
              "schema": {
                "type": "array",
                "items": {
                  "$ref": "#/components/schemas/Question"
                }
              }
            }
          }
        }
      }
    }
  },
  "/api/questions/questions/category/{category}": {
    "get": {
      "tags": [
        "Questions"
      ],
      "summary": "Get questions by category",
      "operationId": "getQuestionsByCategory",
      "parameters": [
        {
          "name": "category",
          "in": "path",
          "required": true,
          "schema": {
            "type": "string"
          }
        }
      ],
      "responses": {
        "200": {
          "description": "OK",
          "content": {
            "*/*": {

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        "type": "array",
        "items": {
          "$ref": "#/components/schemas/Question"
        }
      }
    }
  },
  "components": {
    "schemas": {
      "Question": {
        "type": "object",
        "properties": {
          "id": {
            "type": "integer",
            "format": "int64"
          },
          "questionTitle": {
            "type": "string"
          },
          "option1": {
            "type": "string"
          },
          "option2": {
            "type": "string"
          },
          "option3": {
            "type": "string"
          },
          "option4": {
            "type": "string"
          },
          "correctAnswer": {
            "type": "string"
          },
          "difficultyLevel": {
            "type": "string",
            "enum": [
              "EASY",
              "MEDIUM",
              "HARD"
            ]
          },
          "category": {
            "type": "string",
            "enum": [
              "GITHUB",
              "JAVA",
              "SPRING"
            ]
          }
        }
      },
      "Quiz": {
        "type": "object",
        "properties": {
          "quizId": {
            "type": "integer",
            "format": "int64"
          },
          "title": {
            "type": "string"
          },
          "questions": {

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```
      "items": {
        "$ref": "#/components/schemas/Question"
      }
    },
    "Response": {
      "type": "object",
      "properties": {
        "questionId": {
          "type": "integer",
          "format": "int64"
        },
        "response": {
          "type": "string"
        }
      }
    },
    "QuestionWrapper": {
      "type": "object",
      "properties": {
        "id": {
          "type": "integer",
          "format": "int64"
        },
        "questionTitle": {
          "type": "string"
        },
        "option1": {
          "type": "string"
        },
        "option2": {
          "type": "string"
        },
        "option3": {
          "type": "string"
        },
        "option4": {
          "type": "string"
        }
      }
    },
    "Pageable": {
      "type": "object",
      "properties": {
        "page": {
          "minimum": 0,
          "type": "integer",
          "format": "int32"
        },
        "size": {
          "minimum": 1,
          "type": "integer",
          "format": "int32"
        },
        "sort": {
          "type": "array",
          "items": {
            "type": "string"
          }
        }
      }
    },
    "PageQuestion": {
      "type": "object",
      "properties": {
        "totalElements": {
          "type": "integer",
```

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```
    },
    "totalPages": {
      "type": "integer",
      "format": "int32"
    },
    "size": {
      "type": "integer",
      "format": "int32"
    },
    "content": {
      "type": "array",
      "items": {
        "$ref": "#/components/schemas/Question"
      }
    },
    "number": {
      "type": "integer",
      "format": "int32"
    },
    "sort": {
      "type": "array",
      "items": {
        "$ref": "#/components/schemas/SortObject"
      }
    },
    "first": {
      "type": "boolean"
    },
    "last": {
      "type": "boolean"
    },
    "numberOfElements": {
      "type": "integer",
      "format": "int32"
    },
    "pageable": {
      "$ref": "#/components/schemas/PageableObject"
    },
    "empty": {
      "type": "boolean"
    }
  }
},
"PageableObject": {
  "type": "object",
  "properties": {
    "offset": {
      "type": "integer",
      "format": "int64"
    },
    "sort": {
      "type": "array",
      "items": {
        "$ref": "#/components/schemas/SortObject"
      }
    },
    "paged": {
      "type": "boolean"
    },
    "pageNumber": {
      "type": "integer",
      "format": "int32"
    },
    "pageSize": {
      "type": "integer",
      "format": "int32"
    },
    "unpaged": {
```


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```
}
}
},
"SortObject": {
  "type": "object",
  "properties": {
    "direction": {
      "type": "string"
    },
    "nullHandling": {
      "type": "string"
    },
    "ascending": {
      "type": "boolean"
    },
    "property": {
      "type": "string"
    },
    "ignoreCase": {
      "type": "boolean"
    }
  }
}
}
}
}
```