

# Questionnaire

Develop a full-stack open questionnaire web app that stores users' responses on the cloud using React and Laravel.

## Backend Functionalities

A REST API will be developed using Laravel and SQLite Database.

### *Questionnaires Model*

Field	Data Type	Present in Request Body
id	UUID	Yes
title	String	Yes
isActive	Boolean	Yes

### *Question Model*

Field	Data Type	Present in Request Body
id	UUID	Yes
text	String	Yes
questionnaire_id	UUID	Yes

*Option Model*

Field	Data Type	Present in Request Body
id	UUID	Yes
text	String	Yes
question_id	UUID	Yes
isCorrect	Boolean	Yes

*Submission Model*

Field	Data Type	Present in Request Body
id	UUID	Yes
name	String	Yes
questionnaire_id	UUID	Yes
submittedAt	Datetime	Yes

### Answer Model

Field	Data Type	Present in Request Body
id	UUID	Yes
submission_id	UUID	Yes
question_id	UUID	Yes
option_id	UUID	Yes

### API Routes/Methods

Route	Method	Description
<i>/questionnaires</i>	<i>GET</i>	Get all questionnaires.
<i>/questionnaires/{id}</i>	<i>GET</i>	Get single questionnaire
<i>/submissions</i>	<i>GET</i>	Get all submissions.
<i>/submissions/{id}</i>	<i>GET</i>	Get single submission
<i>/submissions</i>	<i>POST</i>	Submit answers

### Notes:

- Use only SQLite database. And make proper tables/models and relations accordingly.
- Do not remove any existing files.

## Questionnaire Object Response Example:

```
{
  "id": "some uuid",
  "title": "Some Questionnaire",
  "isActive": true,
  "questions": [
    {
      "id": "some uuid",
      "text": "Some Question",
      "options": [
        {
          "id": "some uuid",
          "text": "Some Option",
          "isCorrect": true
        },
        {
          "id": "some uuid",
          "text": "Some Option",
          "isCorrect": false
        }
      ]
    }
  ]
}
```

## Submission Object Payload Example:

```
{
  "id": "some uuid",
  "name": "Some Name",
  "questionnaire_id": "some uuid",
  "answers": [
    {
      "question_id": "some uuid",
      "option_id": "some uuid"
    },
    {
      "question_id": "some uuid",
      "option_id": "some uuid"
    }
  ]
}
```

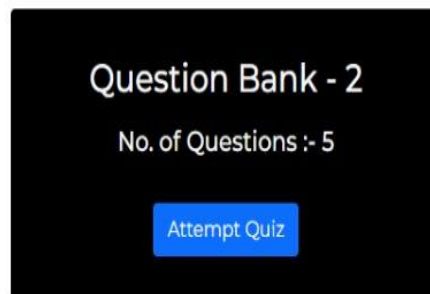
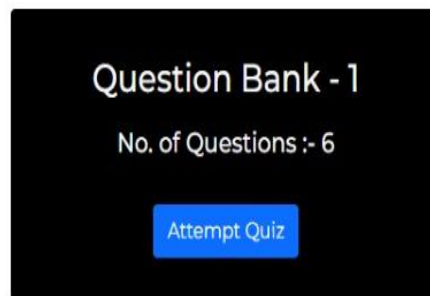
## Frontend Components

A react application will be developed with the mentioned components/pages and proper routing.

### *Home Page*

- This component will be available at the base route ("/").
- Display a list of all the active Questionnaires. Get the list from the localhost:3000/questionnaires endpoint.
- Each item in the list will have the title, the number of questions and a attempt button.
- For title => **data-testid = "title-{question name}"** Ex :- "title-Question Bank - 1".
- For no. of question => **data-testid = "questionnaire-number"**.
- For attempt button => **data-testid = "attempt"**.
- On clicking the attempt the quiz should start.should redirect to "/questionnaire/:id" Id of the questionnaire....

## Questionnaires



## Quiz Page

*\*for all the data format for the component you can see in src/api/db.json*

- This component will be available at the ("/questionnaire/:id") route..
- The component should get questions from ("localhost:3000/questions") endpoint having the same same id which is in url param...
- It should show one question with it's four option at one time.

1

Q. A/An \_\_\_\_\_ assessment is one which measures what it is intended to measure

☐Valid

☐Unvalid

☐Reliable

☐Unreliable

- User can choose only one option at a time but he/she can choose to change it.
  - It should contain two button Ok and Next,
  - Once the user is sure about the answer he/she can click ok button to check whether the answer is correct or not.
  - Validate the answer by green color for correct and red color for wrong only after clicking OK button.
- The message for the answer validation should be same as in images.

1

Q. A/An \_\_\_\_\_ assessment is one which measures what it is intended to measure

☒ Valid

☐ Unvalid

☐ Reliable

☐ Unreliable

Your Answer is correct

Ok

Next

1

Q. The use of technology to enhance learning process is called \_\_\_\_\_ in education.

☒ IT

☐ ICT

☐ Information Technology

☐ Communication Technology

Your Answer is wrong, Correct answer is 2

Ok

Next

For Question => **data-testid = "question"**.

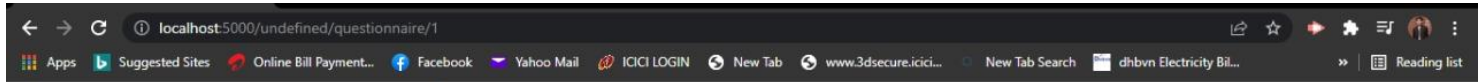
For Option input => **data-testid = "option-{no.of option}"**, For Ex :- data-testid = "option-1".

For OK button => **data-testid = "ok"**.

For Next button => **data-testid = "next"**.

For answer validator message => **data-testid = "validate-answer"**.

- To go to next question you can click next button, but only after the user has clicked ok button.
- At last you have to show the score of the user. At last question when you click next button it show the score.



Thanks For attempting the test

Your Score is :- 3

Total Correct :- 3

Total InCorrect :- 3

For total Score => `data-testid = "score"`.

For total correct => `data-testid = "correct-question"`.

For total incorrect => `data-testid = "incorrect-question"`.

## Advance Functionality

- You can set the timer for each question of 10 sec.
- Once the time is over the answer is marked wrong until the user has not clicked ok button.
- If user has not mark any option you will declare it as a wrong answer.
- Make the web page responsive

## Notes

*\* for all the requests use fetch api otherwise the test case can fail.*

- Use `npm start` to start the dev server. Use `npm test` to run the tests.
- Use proper state management and maintain the reactivity of components.
- Bootstrap and Font Awesome have been added for styling and icons.
- Do not remove or modify any **data-testid** attributes.