

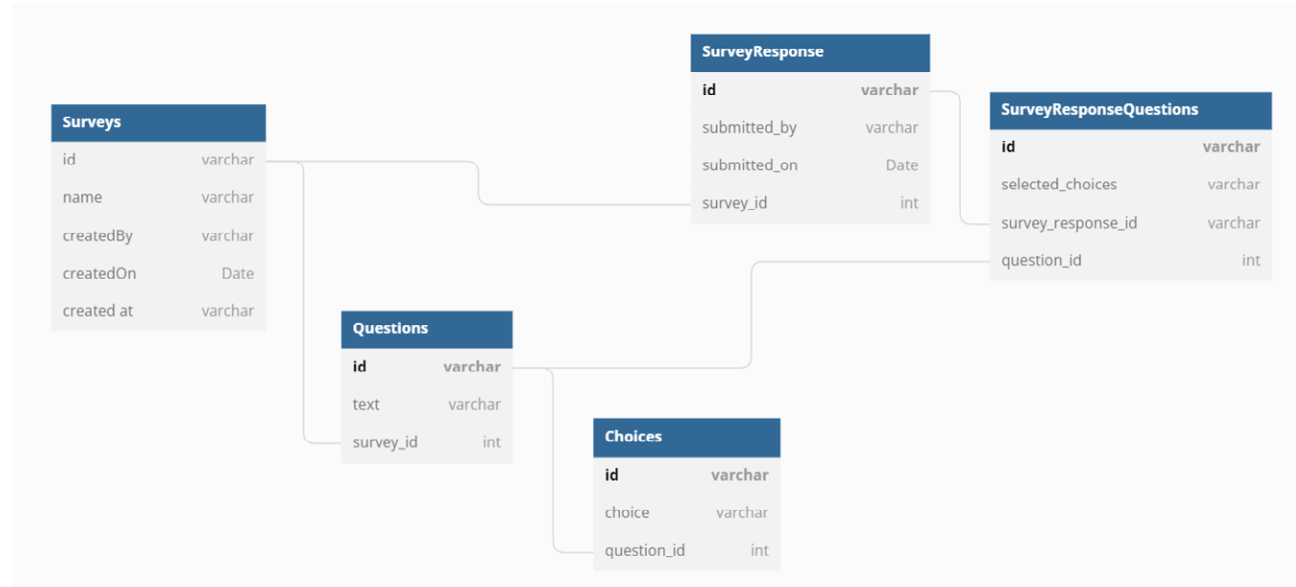
Survey App Backend

This app provides API to create a survey and submit response to a survey.

A survey consists of id, name, list of questions and every question has list of choices from which participant can select his answer. Participant can see the survey which he selects and thus fill and submit the survey response. The Survey Response contains the reference id of the survey which was selected, list of Questions created by admin under that survey and each question has list of selected choices which participant has selected for the given question(answers).

The data is persisted in memory in of application with key-value format considering the NoSQL DB environment.

The Relational Database can also be used for this system. If designed using relational DB, the high level DB design would look something like this:



How to run app:

1. Clone the repo
2. Install npm packages running command “npm install” in project’s root folder
3. Run the server using command “npm start”
4. Access the API via tools like postman using below formats

The APIs mentioned below are available for use:

All the APIs are protected via token based authentication. The token is to be put in header of request in following key-value patter

token: **ThisIsAJodelTest**

Create Survey

Method: POST

URL: </admin/survey/create>

Request Body:

```
{
  "name": "Coffee survey",
  "questions":[
    {
      "text":"What is your favourite coffee?",
      "choices":["Black coffee", "Latte", "Cold coffee"]
    },
    {
      "text":"How many cups of coffee do you drink?",
      "choices":["1-2", "2-3", "More than 3"]
    }
  ]
}
```

Response: SUCCESS/FAILURE

Get All Surveys in System

Method: GET

URL: </admin/survey/get-all>

Response Body:

```
[
  {
    "id": "WcAvpWyou",
    "questions": [
```

```

{
  "id": "Hy_DOT3DPC",
  "text": "What is your favourite coffee?",
  "survey_id": "WcAvpWyou",
  "choices": [
    "Black coffee",
    "Latte",
    "Cold coffee"
  ]
},
{
  "id": "wkSha_bs5F",
  "text": "How many cups of coffee do you drink?",
  "survey_id": "WcAvpWyou",
  "choices": [
    "1-2",
    "2-3",
    "More than 3"
  ]
}
],
"name": "Coffee survey",
"createdOn": "2022-08-20T04:59:47.128Z"
}
]

```

Delete Surveys in System

Method: DELETE

URL: [admin/survey/delete?surveyId=](/admin/survey/delete?surveyId=) (If surveyId is not passed, all the surveys in system will be deleted)

Response Body: DELETED/FAILED

Submit Survey Response by Participant

Method: POST

URL: </participant/submit>

Request Body:

```
{
  "survey_id": "I3aVJ16yn",
  "submitted_by": "John Doe",
  "answers": [
    {
      "text": "What is your favourite coffee?",
      "chosen": ["White coffee", "Ice coffee"]
    },
    {
      "text": "How many cups of coffee do you drink?",
      "chosen": ["4-5"]
    }
  ]
}
```

Get All Survey Responses by Participant for given surveyId

Method: GET

URL: </participant/response/get-by-survey?surveyId=I3aVJ16yn>

Response Body:

```
[
  {
    "id": "Pvg0vscJj",
    "answers": [
      {
        "id": "OKubEKRdaN",
```

```
"question": "What is your favourite coffee?",
"survey_id": "Pvg0vscJj",
"selected_choices": [
  "Cold coffee",
  "Black coffee"
],
{
  "id": "1cjm4fKRNO",
  "question": "How many cups of coffee do you drink?",
  "survey_id": "Pvg0vscJj",
  "selected_choices": [
    "4-5"
  ]
},
{
  "survey_id": "I3aVJ16yn",
  "submitted_on": "Sat Aug 20 2022 10:11:02 GMT+0530 (India Standard Time)"
}
]
```