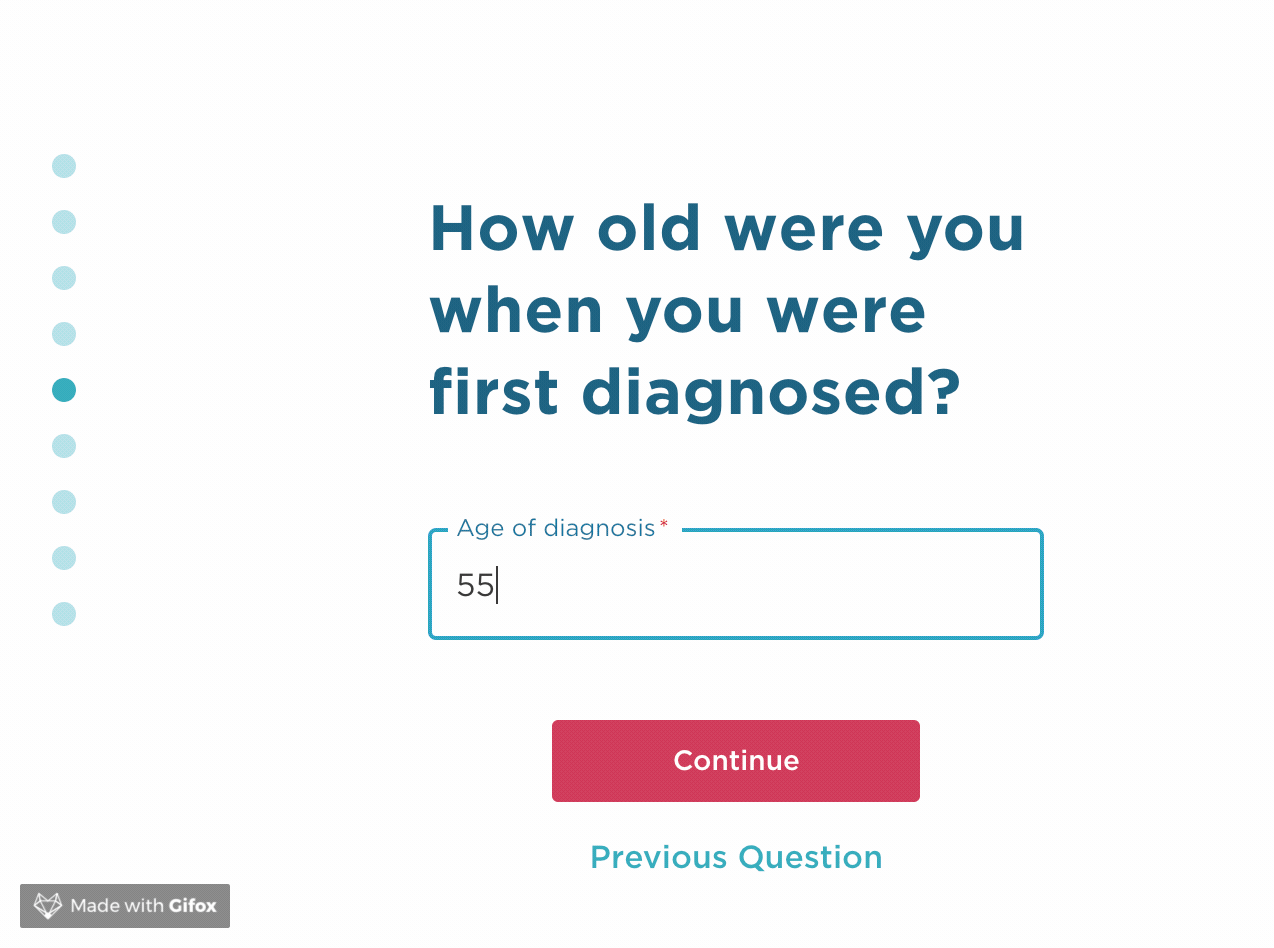
Questions: Design Problem

Historically we have had a HealthHistory model which contains all the information we ask a user about their health to help customize their genetics report. It was “one’ mega-table with columns reflecting what we asked our users.

Everytime we wanted to add a new field it involved

* Adding a new column to the database
* Running a migration
* Adding a new front-end to render/ask the question.

**Objective**: We want to build a platform that removes these engineering costs to add questions we want to collect from our users.



**Goals**:

* Supporting different types of question types: Select choice, multiple select, text field
* One UI engine for rendering questions
* We want to ask a collection of questions to users.

Consider data layer, API’s, and Front-end. Feel free to choose a spot to start here

**Data Model**

Quiz

* Id
* Name text
* List of questions

Quiz\_Question

Quiz\_Question

* Id (Quiz)
* Id (Question)

Question

* Question\_text text
* Type\_question FK (Question\_Type)
* Options

Question Type

* id
* Question\_type\_text

User

* Id
* Name

Answers

* id

- user (User)

- question (Quiz\_Question)

- answer\_text [text]

- answer\_select  [text]

- answer\_multiple [list of text]

**APIs**

/api/users/:id/answer

POST {

Quiz\_Question:

Answer\_text:

}

/api/quiz

Get {

Id: Quiz\_id

}

response:

{

Name: quiz 1,

List\_quesitons: [

{

Question name:

Type\_question:

Options:

}

…

Question 1:

* type: free text
* question\_text: what is your name

Question 2:

* type: select
* question\_text: which symptoms are you feeling
* options: headache, fever, sore throat