

Frontend Assessment 2

The goal of this assessment is to replicate the frontend application described in the steps below (as close as possible). You are allowed to use any frontend framework or use plain Javascript, HTML, and CSS. We recommend using a frontend framework like React, Angular or Vue.js.

Please complete as much of the assignment as you can. You don't need to save the older parts of the assignment – the assessment is designed so you build on top of the previous part.

If you notice something is not working (like the API, or any of the links in this document), please contact hello@hatchways.io.

This assessment will be evaluated based on the following criteria:

- Completion: Did you complete all the steps? Does each part work properly? This is the most important criterion.
- Code Organization: How organized is your solution? Is the code easy to read?
- Fundamentals: Is your code efficient? Do you use the appropriate data structures?
- Speed: We are looking for solutions that are completed within an appropriate time frame (less than 24 hours is an appropriate time frame).

End Result

You will be working on creating a simple version of Google Forms. In this version, you are able to easily make a multiple choice quiz.

This video is what the end result will look like:

<https://storage.googleapis.com/hatchways-app.appspot.com/assessments/data/904579829420348572301/assets/demo.mp4>

We have broken down the project into steps below. Feel free to complete the project in any order - the goal is to complete as much of the project as you can.

Step 1: Title & Description

The first step of this project is to create a simple form for the title and description of the quiz. Split the page in half, with the form on the left side, and the display of the final quiz on the right side. See the picture below and the video link:

<https://storage.googleapis.com/hatchways-app.appspot.com/assessments/data/904579829420348572301/assets/basic-form.mp4>

A form with two input fields. The top field is labeled 'Title' and the bottom field is labeled 'Form Description'.

Title

Form Description

Step 2: Add a Question

In this step, your goal is to create a button that allows you to add a question to the quiz. When you click the button, another form for that quiz should show up. For now, the question form can just contain an input field for the question and its description. See the picture and video link below:

<https://storage.googleapis.com/hatchways-app.appspot.com/assessments/data/904579829420348572301/assets/add-a-question.mp4>

A form with two input fields. The top field is labeled 'Title' and the bottom field is labeled 'Form Description'. Below these fields is a section labeled 'Question' with two input fields: 'Question' and 'Question description'. At the bottom of the form is a button labeled 'Add question'.

Title

Form Description

Question

Question description

Step 3: Question Form

In this step, your goal is to add functionality to the question form. Here are the following functions we added:

- Add multiple choice options
- Delete multiple choice options
- Delete the question

See the picture and video link below for details:

<https://storage.googleapis.com/hatchways-app.appspot.com/assessments/data/904579829420348572301/assets/question-details.mp4>

Title

Description

Question 1

Question Description (Optional)

Option 1

Option 2

Option 3

Option 4

Add options

Add optionDelete question

Add question

Title

Description

Question 1

- ☐ Option 1
☐ Option 2
☐ Option 3
☐ Option 4

Step 4: CSS

Let's style this project! See the image and video below for the CSS styles that we added to this project. Try to replicate it as close as possible.

<https://storage.googleapis.com/hatchways-app.appspot.com/assessments/data/904579829420348572301/assets/demo.mp4>

New Form

This is the form description.

Question 1

What is your favourite colour?

Option 1

Option 2

Option 3

Add options

ADD OPTION

DELETE QUESTION

ADD QUESTION

New Form

This is the form description.

Question 1

What is your favourite colour?

- ☐ Option 1
- ☐ Option 2
- ☐ Option 3

Step 5: Title Description (BONUS)

In this bonus step, we want the title description to recognize newline characters, and lists. So, if you type a newline, it should create a HTML line break in the final result on the right. See the image below:

Title

Here is a description.
Notice how this line appears on a different line compared to the message above.

ADD QUESTION

Title
Here is a description.
Notice how this line appears on a different line compared to the message above.

It should also recognize if you are intending to create a list. See the image below:

Title

Here is a description.
-This is a list
-Notice how it starts with a '-'

ADD QUESTION

Title
Here is a description.

- This is a list
- Notice how it starts with a '-'

The video link below can help you understand what the goal is:

<https://storage.googleapis.com/hatchways-app.appspot.com/assessments/data/904579829420348572301/assets/description-html.mp4>

Submission Details

Please submit your code in a compressed folder (.zip, .sitx, .7z, .rar, and .gz) on the [Hatchways platform](#). The max submission size is 5MB.

Please include a Readme.md that describes how to run the application. Do not submit any built folders, since the compressed folder will be too large. If you are using plain Javascript, make the index.html file the entry point to your application. You are free to use any scaffolding tools to help you get started.

You are welcome to deploy your project to a server - include a link to the project, so we can easily view the final result.

If your submission is too big (although this should not be the case if you follow the steps above), and you can't figure out how to compress, you are welcome to email your solution to hello@hatchways.io.

Please include your name, and use the email you signed up with the Hatchways platform. Use the subject line "Frontend Assessment Submission".

Public Repositories

Please avoid posting your solution to a public repository. We understand that you may want to share projects you have worked on, but many hours go into developing our tools so we can provide a fair skills evaluation.

If you would like to keep a similar version of the assessment on a public repository to showcase your skills, then please do the following:

- Remove all references to Hatchways in the assessment
- Do not use any Hatchways APIs (replace them with an API of your own)