

## DS Simulation Exercise: Project Gemini

**Submission:** within 72 hours

Develop a basic version of Google Forms from scratch. An Organizer creating the Form should be able to create multiple ones (*example Exhibit A*). Within each Form, the Organizer should be able to add varying Fields (*example Exhibit B*), and also be able to share a link of the Form with outside users.

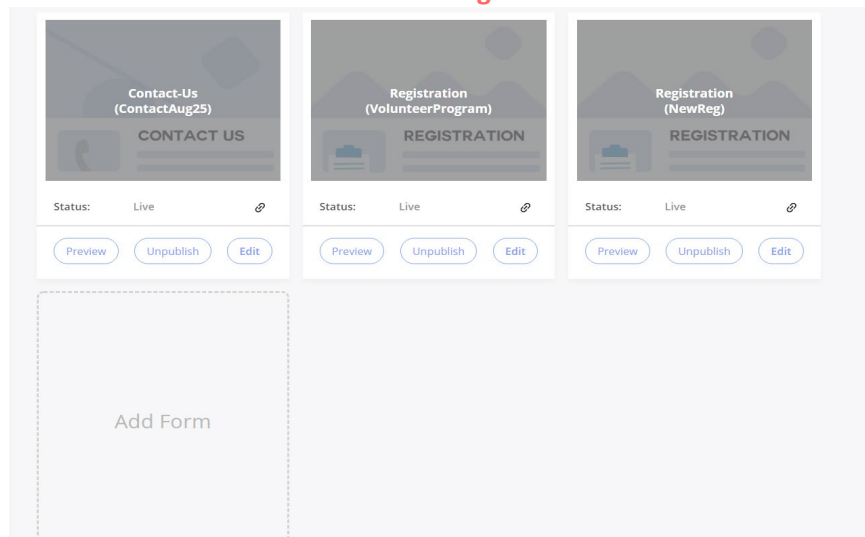
Any outside user with a link should be able to submit multiple form responses (*example Exhibit C*). The Organizer should have the ability to view the responses somewhere.

For this exercise, limit the *Add Field* types to the following three: 1) A short text input (like “What is your name”, “What is your email”), 2) a long text input, and 3) a multiple-choice question (*example Exhibit B*).

This is a full-stack application challenge and the application should be deployed on the cloud. Any language can be used, but the team has a strong preference for Javascript (our stack is React, Node.js, PostgreSQL). The focus should be on a well-designed back-end and data models, less on front-end design.

Try to complete as much as you can of the project in the time given. Focus on the building the functionality for the main exhibits below. You do not need to create user accounts and/or login/signup forms.

### Exhibit A: Forms Page Illustration



## Exhibit B: Add Fields Illustration

The illustration shows a modal dialog titled "Add Form Field" with a close button (X) in the top right corner. The dialog contains the following fields:

- Field \***: A dropdown menu with "Multiple Choices" selected.
- Label \***: A text input field containing "What is your T-Shirt Size Preference?".
- Options \***: A list of three options: "Small", "Medium", and "Large". Each option has a green "+" button to its right. The "Large" option is currently selected.
- Add new**: A blue button at the bottom of the dialog.

The background shows a blurred form with fields for "Last Name \*", "Email \*", and "What is your fav memory?".

## Exhibit C: Outside User Viewing & Submitting Form Response

First Name \*

Last Name \*

Email \*

Phone

Address

Region

Postal Code

Country

What is your track with education?

Volunteer Signature [Draw Signature](#)

Fruit name?

☐ Apple ☐ Pear ☐ Banana

### Volunteer Info

What are you looking forward to?

**Submit**