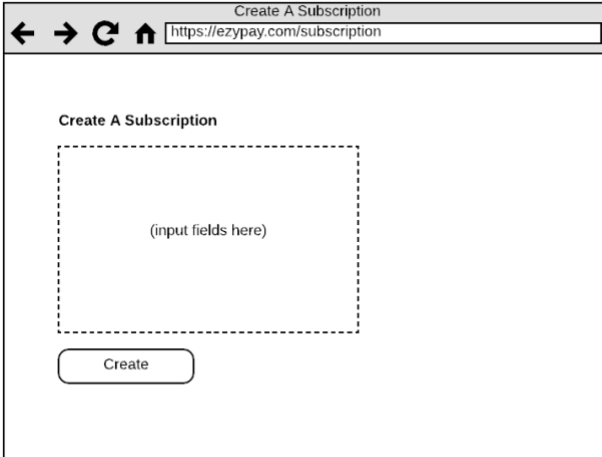


Software Engineer Take Home Test A Simple Subscription Service

Your team is building a recurring payment system and you're tasked with building the subscription module. A subscription tells the system when to bill a customer and includes all the details needed to create an invoice.

Create a web app which has:

- **A one page front-end to create a subscription. You're free to use either Vue, Angular, or React – that's up to you. It should look roughly like this:**



- **A single API endpoint (that the front-end uses) to allow users to create a subscription, written in either Java or Node.js. Details:**
 - **Input:**
 - the amount to charge per invoice, ie \$10.00
 - the subscription type – DAILY, WEEKLY or MONTHLY.
 - day of week/month – if the subscription type was WEEKLY, the day of the week - i.e. TUESDAY. If it was MONTHLY, the date of the month - i.e. 20
 - The start and end date of the entire subscription, with a maximum duration of 3 months
 - **Output:**
 - Amount – the amount entered
 - Subscription type – the subscription type entered



- Invoice dates – all the dates in 'dd/MM/yyyy' format that invoices will be issued on. For example, a weekly subscription every Tuesday from the 6th of Feb 2018 to the 27th of Feb 2018 will have the following invoice dates: ["06/02/2018", "13/02/2018", "20/02/2018", "27/02/2018"]

Please include all applicable tests, push your code to GitHub and send us the link. Don't spend more than a few hours over the week on this; we're looking to understand how you think and code, not perfect answers.

Thanks for taking the time, and good luck!