

Patch Technical Exercise

Create a delivery slot picker that generates a group of dates and delivery slots for selection by a user. With each day having at least 3 slots, where the slot has the same start and end time every day. The slot will hold a capacity that is editable. When a slot is selected it will reduce the remaining capacity for that slot.

You are free to implement the solution in any way which best illustrates it. Here at Patch we currently use Python with the Django framework for the backend of the site and Vue/React for different elements on the frontend, we also use AWS Lambda and DynamoDB. This information is here to give you an idea of what we use not to limit you.

This task aims to understand your approach to this problem and how you meet the outcomes below.

1 st December	2 nd December	3 rd December
AM	AM	AM
PM	PM	PM
EVE	EVE	EVE

Outcomes

1. Generate 4 weeks worth of dates and slots from the current date onwards.
2. An interface that displays dates in groups of 4 days.
3. Indicate when a slot is available or full
4. The interface should allow the slot to be selected and persist across any swiping or scrolling through the days.

Extras

- If the first date in the picker has no available slots for any reason, it is removed from the data/UI
- When the date generator is given a flag of your choosing (e.g., indicating a particular type of item in the order being delivered), dates which fall on a Wednesday are unavailable and indicated as such in the UI rather than missing or marked as 'full'
- The first time slot for the day is never available on every second Friday