## Verkada - Front-end Architect Coding Assignment

## Motivation

Verkada has a web-based command center where users can see all of their cameras. To quickly view the last 30 days of footage from a camera, we've created an "infinite" scrolling list that displays a grid of thumbnails. We only have a finite number of thumbnails so it's not truly infinite, but we can easily scroll to any of the hundreds of thousands of images. A naive implementation would be to put each image in an <img> tag, but the browser cannot download and render all of those images, so we need a better solution.

Your challenge is to create this infinite scrolling list using thumbnails from our office camera. *This is not a news-feed style list where more items load after you reach the bottom*: the user must be able to use the browser scrollbar to jump to any image. We are only interested in visualizing the historical thumbnails (no real-time data).

We don't expect you to be a brilliant visual designer, but do pay attention to the details and send us something polished!

	nails

•	https:	.i.	p	٥

• Thumbnails are taken every 20 seconds. The first timestamp is ; the last timestamp is i. For example, the first thumbnail is: https: .jpg

## Requirements

- Use Javascript, HTML, and CSS (or your favorite CSS derivative)
- You can use UI framework such as React
- Please avoid using ¡Query or any sort of "infinite scrolling list" libraries
- Thumbnails should be shown in a grid with 3 thumbnails per row.
- Only the visible images should be downloaded and displayed: when the page loads, don't immediately create n = 100,000 < div /> s or n = 100,000 network requests. Ideally, the number of DOM nodes on the page should be  $O(visible\ images)$ , not O(n)!
- The browser's native scrollbar should be usable -- users must be able to scroll to anywhere in the history by clicking and dragging the scrollbar.