PRACTICE

PROGRAMA DE
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Every good technical book starts with a crash course, and this one is no exception.

In this part, we will explore the key components of a queue system, see how queues are used in Laravel, and understand why we need to use queues in our applications.

Key Components

A queue system has 3 main components; queues, messages, and workers.

Let's start by exploring each of these components.

Queues

A queue is a linear data structure in which elements can be added to one end, and can only be removed from the other end.

That's the definition you find in most Computer Science books, and it can be quite confusing.

Let me show you a queue in action:

```
$queue = [
    'DownloadProject',
    'RunTests'
];
```

This queue contains two messages. We can enqueue a new message and it'll be added to the end of the queue:

```
enqueue('Deploy');


$queue = [
    'DownloadProject',
    'RunTests',
    'Deploy'
];
```