

One of the things I ask all the engineers on my teams to do as part of their onboarding (and a part of ongoing team collaboration) is to “eat your own dogfood.”

What that means for my AWS Amplify is they’re asked to create their own application and use the products/services we build and maintain every day as a user would.

This builds empathy, understanding, and helps with a baseline understanding of the wide variety of ways customers use the products and services.

My kids have recently shown an interest in coding as they’ve observed the countless hours I spend at the computer while we’re all in quarantine together, so I decided to build a very simple project for them and their devices.

Separately, our family is pretty big on sharing quotes and thoughts on inspirational characters or people and so we regularly share quotes at breakfast or dinner. That led to a pretty simple project of displaying a random quote on a single-page-app and then hosting it on [Amplify Console](#) under my domain, using the [Amplify CLI Hosting Plugin](#).

Build the App

Start with a very simple react app with [@material-ui/core](#) for some simple components.

```
npx create-react-app quotes && cd quotes  
npm install @material-ui/core react-papaparse
```

Next, thanks to [akhiltak](#) we can use [akhiltak/inspirational-quotes](#) as our data source for this quotes app.

Now we’ve got the basics for App.js

```
import React, { useState, useEffect } from "react";  
import { makeStyles } from "@material-ui/core/styles";
```

```

import Card from "@material-ui/core/Card";
import CardActionArea from "@material-ui/core/CardActionArea";
import CardContent from "@material-ui/core/CardContent";
import Typography from "@material-ui/core/Typography";
import { readRemoteFile } from "react-papaparse";
import "./App.css";

const useStyles = makeStyles({
  root: {
    maxWidth: 600
  },
  quote: {
    color: "#999",
    fontSize: 25
  },
  author: {
    fontSize: 50
  }
});

function App() {
  const classes = useStyles();
  const [quote, setQuote] = useState(null);

  useEffect(() => {
    const url =
      "https://raw.githubusercontent.com/akhiltak/inspirational-quotes/master/Quotes.csv";

    readRemoteFile(url, {
      complete: function(results) {

```

```

    console.log("Results:", results);
    const items = results.data;
    const quote = items[Math.floor(Math.random() * items.length)];
    console.log("Random", quote);
    setQuote(quote);
  },
  skipEmptyLines: true
});
}, []);

if (quote == null) {
  return false;
}

return (
  <div className="App">
    <header className="App-header">
      <Card raised className={classes.root}>
        <CardActionArea>
          <CardContent>
            <blockquote
              variant="body2"
              color="textSecondary"
              component="p"
              className={classes.quote}
            >
              "{quote[0]}"
            </blockquote>
            <Typography
              gutterBottom
              variant="h5"

```

```
        component="h2"
        className={classes.author}
      >
        {quote[1]}
      </Typography>
    </CardContent>
  </CardActionArea>
</Card>
</header>
</div>
);
}
```

```
export default App;
```

AWS Amplify

First, make sure you have installed Amplify CLI and setup an AWS profile:

<https://aws-amplify.github.io/docs/js/cli>

```
$ npm install -g @aws-amplify/cli
$ amplify configure
```

Initialize Amplify

```

→ quotes git:(master) x amplify init
Note: It is recommended to run this command from the root of your app directory
? Enter a name for the project quotes
? Enter a name for the environment prod
? Choose your default editor: Visual Studio Code
? Choose the type of app that you're building javascript
Please tell us about your project
? What javascript framework are you using react
? Source Directory Path: src
? Distribution Directory Path: build
? Build Command: npm run build
? Start Command: npm run start
Using default provider awscloudformation

For more information on AWS Profiles, see:
https://docs.aws.amazon.com/cli/latest/userguide/cli-multiple-profiles.html

? Do you want to use an AWS profile? (Y/n) █

```

You can use a global AWS profile, or simply use Access Keys for a specific application, then Amplify will now provision our resources.

```

! Initializing project in the cloud...
CREATE_IN_PROGRESS DeploymentBucket AWS::S3::Bucket Mon Mar 23 2020 12:44:21 GMT-0700 (Pacific Daylight Time) Resource creation Initiated
CREATE_IN_PROGRESS UnauthRole AWS::IAM::Role Mon Mar 23 2020 12:44:21 GMT-0700 (Pacific Daylight Time) Resource creation Initiated
CREATE_IN_PROGRESS AuthRole AWS::IAM::Role Mon Mar 23 2020 12:44:21 GMT-0700 (Pacific Daylight Time) Resource creation Initiated
CREATE_IN_PROGRESS UnauthRole AWS::IAM::Role Mon Mar 23 2020 12:44:20 GMT-0700 (Pacific Daylight Time)
CREATE_IN_PROGRESS DeploymentBucket AWS::S3::Bucket Mon Mar 23 2020 12:44:20 GMT-0700 (Pacific Daylight Time)
CREATE_IN_PROGRESS AuthRole AWS::IAM::Role Mon Mar 23 2020 12:44:20 GMT-0700 (Pacific Daylight Time)
CREATE_IN_PROGRESS amplify-quotes-prod-124417 AWS::CloudFormation::Stack Mon Mar 23 2020 12:44:17 GMT-0700 (Pacific Daylight Time) User Initiated
! Initializing project in the cloud...
CREATE_COMPLETE UnauthRole AWS::IAM::Role Mon Mar 23 2020 12:44:37 GMT-0700 (Pacific Daylight Time)
CREATE_COMPLETE AuthRole AWS::IAM::Role Mon Mar 23 2020 12:44:37 GMT-0700 (Pacific Daylight Time)
! Initializing project in the cloud...
CREATE_COMPLETE DeploymentBucket AWS::S3::Bucket Mon Mar 23 2020 12:44:42 GMT-0700 (Pacific Daylight Time)
! Initializing project in the cloud...
CREATE_COMPLETE amplify-quotes-prod-124417 AWS::CloudFormation::Stack Mon Mar 23 2020 12:44:44 GMT-0700 (Pacific Daylight Time)
✓ Successfully created initial AWS cloud resources for deployments.
✓ Initialized provider successfully.
Initialized your environment successfully.

Your project has been successfully initialized and connected to the cloud!

Some next steps:
"amplify status" will show you what you've added already and if it's locally configured or deployed
"amplify <category> add" will allow you to add features like user login or a backend API
"amplify push" will build all your local backend resources and provision it in the cloud
"amplify publish" will build all your local backend and frontend resources (if you have hosting category added) and provision it in the cloud

Pro tip:
Try "amplify add api" to create a backend API and then "amplify publish" to deploy everything

```

Adding Hosting

```

→ quotes git:(master) x amplify hosting add
? Select the plugin module to execute Hosting with Amplify Console (Managed hosting with custom domains, Continuous deployment)
? Choose a type Continuous deployment (Git-based deployments)
? Continuous deployment is configured in the Amplify Console. Please hit enter once you connect your repository
Amplify hosting urls:

```

FrontEnd Env	Domain
master	https://master.d1tgxjn5m9peir.amplifyapp.com

Finally, we'll see our Console pipeline, and be ready to have CI/CD integrated directly with the repository.


quotes Actions ▾

The app homepage lists all deployed frontend and backend environments.

Frontend environments | Backend environments

This tab lists all connected branches, select a branch to view build details. Connect branch

master
Continuous deploys set up with **prod** backend ([Edit](#))



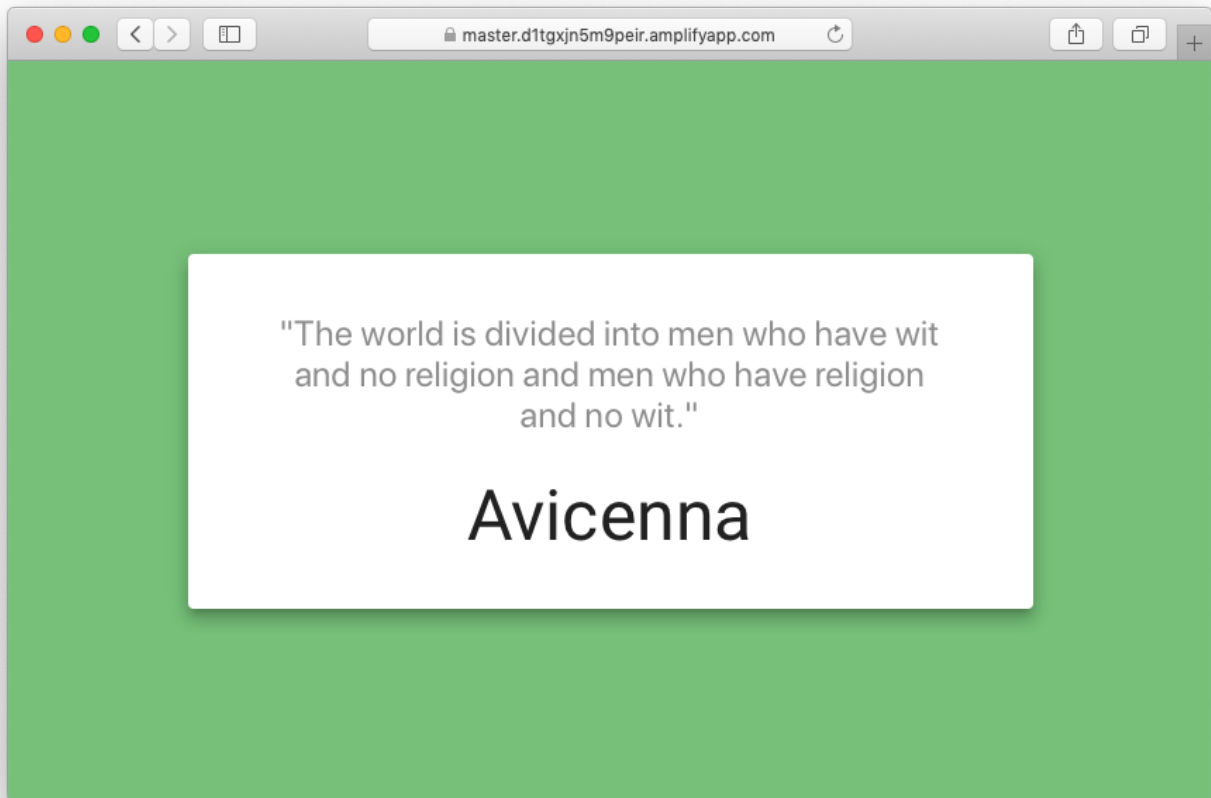
<https://master...amplifyapp.com>

Provision — Build — Deploy — Verify

Last deployment 3/23/2020, 1:43:32 PM	Last commit This is an autogenerated message Auto-build GitHub - master	Previews Disabled
--	---	----------------------

Voila!

<https://master.d1tgxjn5m9peir.amplifyapp.com/>



"The world is divided into men who have wit
and no religion and men who have religion
and no wit."

Avicenna