

## Step 1: Create a React app

```
anithabalachandran@anithas-mbp ~ % npx create-react-app yelpanalyticapplication
Creating a new React app in /Users/anithabalachandran/yelpanalyticapplication.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
added 1464 packages in 15s

242 packages are looking for funding
  run `npm fund` for details

Initialized a git repository.

Installing template dependencies using npm...
added 69 packages, and changed 1 package in 2s

246 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...

removed 1 package, and audited 1533 packages in 849ms

246 packages are looking for funding
  run `npm fund` for details

8 vulnerabilities (2 moderate, 6 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
```

## Step 2: Change the path to root project directory

```
We suggest that you begin by typing:
cd yelpanalyticapplication
npm start

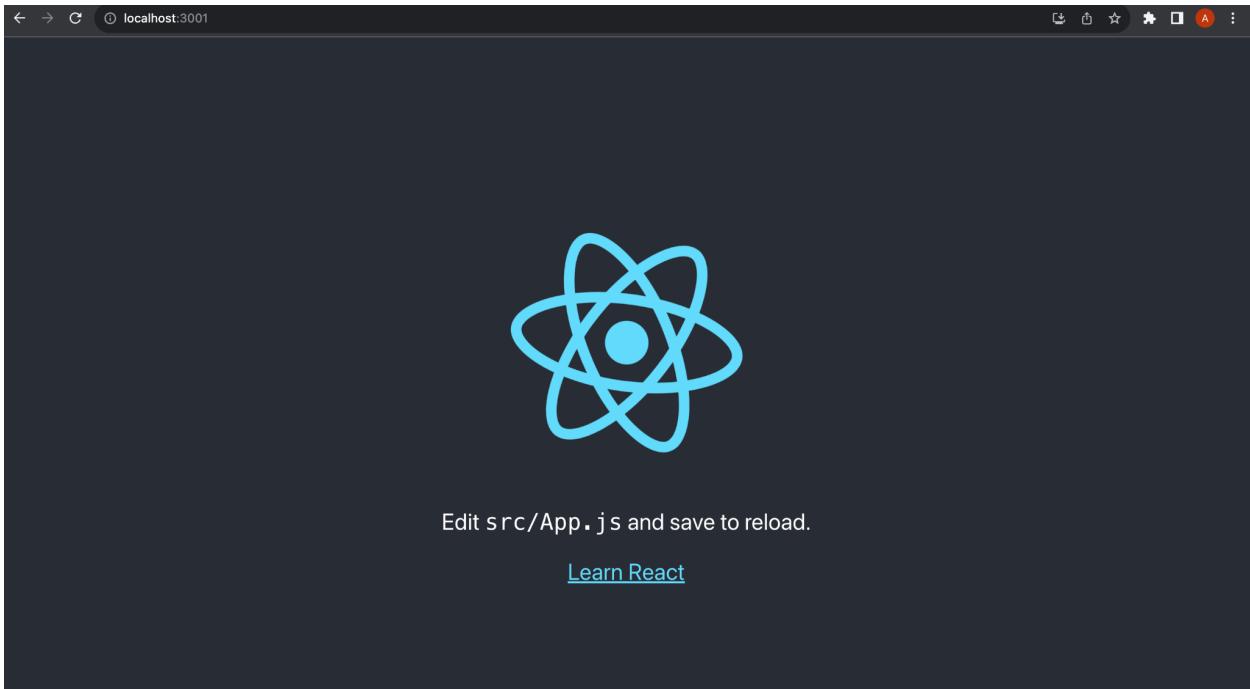
Happy hacking!
anithabalachandran@anithas-mbp ~ % cd yelpanalyticapplication
anithabalachandran@anithas-mbp yelpanalyticapplication % sudo chown -R $(whoami) /Users/anithabalachandran/yelpanalyticapplication
```

Step 3: change user permissions to the directory

```
sudo chown -R $(whoami) /Users/anithabalachandran/yelpanalytica
```

```
anithabalachandran@anithas-mbp yelpanalytica % sudo chown -R $(whoami) /Users/anithabalachandran/yelpanalytica  
Password:  
anithabalachandran@anithas-mbp yelpanalytica %
```

Step 4: start and test the application: npm start



Step 5: configure amplify

```
sudo amplify configure
```

```
anithabalachandran@anithas-mbp yelpanalytica % sudo amplify configure
sudo amplify configure
Follow these steps to set up access to your AWS account:

Sign in to your AWS administrator account:
https://console.aws.amazon.com/
Press Enter to continue

Specify the AWS Region
? region: us-east-1
Follow the instructions at
https://docs.amplify.aws/cli/start/install/#configure-the-amplify-cli

to complete the user creation in the AWS console
https://console.aws.amazon.com/iamv2/home#/users/create
Press Enter to continue

Enter the access key of the newly created user:
? accessKeyId: *****
? secretAccessKey: *****
This would update/create the AWS Profile in your local machine
? Profile Name: anithalidiya

Successfully set up the new user.
anithabalachandran@anithas-mbp yelpanalytica %
```

Step 6: Initiate amplify in the new directory  
sudo amplify init

```

Successfully set up the new user.
anithabalachandran@anithas-mbp yelpanalytica % sudo amplify init
Note: It is recommended to run this command from the root of your app directory
? Enter a name for the project yelpanalytica
The following configuration will be applied:

Project information
| Name: yelpanalytica
| Environment: dev
| Default editor: Visual Studio Code
| App type: javascript
| Javascript framework: react
| Source Directory Path: src
| Distribution Directory Path: build
| Build Command: npm run-script build
| Start Command: npm run-script start

? Initialize the project with the above configuration? Yes
Using default provider awscloudformation
? Select the authentication method you want to use: AWS profile

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

? Please choose the profile you want to use anithalidiya
Adding backend environment dev to AWS Amplify app: d2nxkl3fqhp3m8

Deploying resources into dev environment. This will take a few minutes. :
Deploying root stack yelpanalytica [ ----- ] 0/4
    amplify-yelpanalytica-dev-113.. AWS::CloudFormation::Stack      CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:18...
    UnauthRole          AWS::IAM::Role        CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:22...
    AuthRole            AWS::IAM::Role        CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:22...
    DeploymentBucket    AWS::S3::Bucket       CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:22...

```

```

Deployment completed.
Deploying root stack yelpanalytica [ ----- ] 0/4
    amplify-yelpanalytica-dev-113.. AWS::CloudFormation::Stack      CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:18...
    UnauthRole          AWS::IAM::Role        CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:22...
    AuthRole            AWS::IAM::Role        CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:22...
    DeploymentBucket    AWS::S3::Bucket       CREATE_IN_PROGRESS   Thu Nov 30 2023 11:35:22...

✓ Help improve Amplify CLI by sharing non-sensitive project configurations on failures (y/N) : yes

    Thank you for helping us improve Amplify CLI!
Deployment state saved successfully.
✓ 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 add <category>" 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 console" to open the Amplify Console and view your project status
"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 push" to deploy everything
anithabalachandran@anithas-mbp yelpanalytica %

```

## Step 7: Add authentication to the frontend

Sudo amplify add auth

```

anithabalachandran@anithas-mbp yelpanalytica % sudo amplify add auth
Using service: Cognito, provided by: awscloudformation

The current configured provider is Amazon Cognito.

Do you want to use the default authentication and security configuration? Default configuration
Warning: you will not be able to edit these selections.
How do you want users to be able to sign in? Username
Do you want to configure advanced settings? No, I am done.
✓ Successfully added auth resource yelpanalyticafc27e91f locally

✓ Some next steps:
"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

anithabalachandran@anithas-mbp yelpanalytica %

```

## Step: sudo amplify push

```

anithabalachandran@anithas-mbp yelpanalyticapplication % sudo amplify push
✓ Successfully pulled backend environment dev from the cloud.

Current Environment: dev



| Category | Resource name                | Operation | Provider plugin   |
|----------|------------------------------|-----------|-------------------|
| Auth     | yelpanalyticapplicat9534da06 | Create    | awscloudformation |



✓ Are you sure you want to continue? (y/n) · yes

Deployment completed.
Deploying root stack yelpanalyticapplicat [ ===== ] 1/2
    amplify-yelpanalyticapplicat... AWS::CloudFormation::Stack      UPDATE_IN_PROGRESS
    authyelpanalyticapplicat9534d... AWS::CloudFormation::Stack      CREATE_COMPLETE
Deployed auth yelpanalyticapplicat9534da06 [ ===== ] 6/6
    UserPoolClientRole          AWS::IAM::Role                  CREATE_IN_PROGRESS
    UserPool                   AWS::Cognito::UserPool        CREATE_COMPLETE
    UserPoolClientWeb           AWS::Cognito::UserPoolClient  CREATE_COMPLETE
    UserPoolClient              AWS::Cognito::UserPoolClient  CREATE_COMPLETE
    IdentityPool                AWS::Cognito::IdentityPool   CREATE_COMPLETE
    IdentityPoolRoleMap         AWS::Cognito::IdentityPoolRoleMap  CREATE_COMPLETE

Thu Nov 30 2023 11:58:42...
Thu Nov 30 2023 11:59:20...
Thu Nov 30 2023 11:58:50...
Thu Nov 30 2023 11:58:53...
Thu Nov 30 2023 11:58:55...
Thu Nov 30 2023 11:58:55...
Thu Nov 30 2023 11:58:58...
Thu Nov 30 2023 11:59:00...

Deployment state saved successfully.

anithabalachandran@anithas-mbp yelpanalyticapplication %

```

## Step 8: Update the code

### Step 9:

Sudo npm install react-router-dom

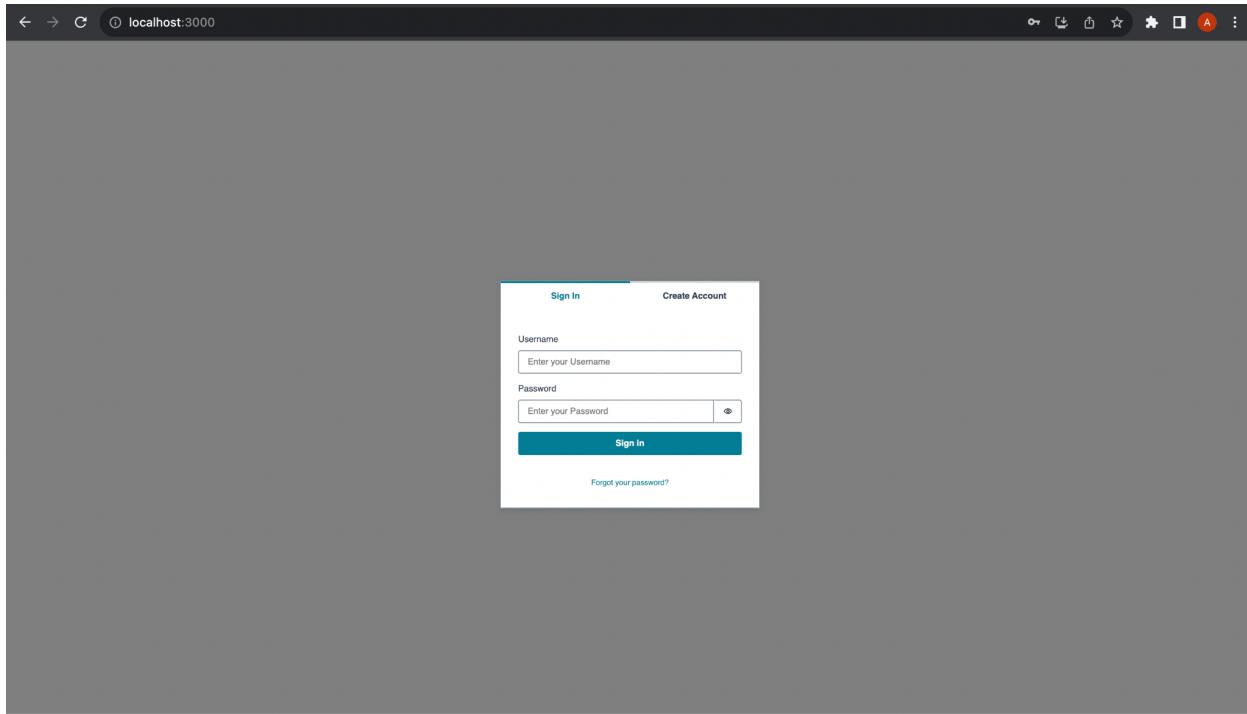
```
npm ERR! A complete log of this run can be found in: /Users/anithabalachandran/.npm/_l  
anithabalachandran@anithas-mbp yelpanalytica % sudo npm install react-router-dom  
  
added 3 packages, and audited 1536 packages in 2s  
  
246 packages are looking for funding  
  run `npm fund` for details  
  
8 vulnerabilities (2 moderate, 6 high)  
  
To address all issues (including breaking changes), run:  
  npm audit fix --force  
  
Run `npm audit` for details.  
anithabalachandran@anithas-mbp yelpanalytica % sudo npm install react-router-dom  
  
up to date, audited 1536 packages in 938ms  
  
246 packages are looking for funding  
  run `npm fund` for details  
  
8 vulnerabilities (2 moderate, 6 high)  
  
To address all issues (including breaking changes), run:  
  npm audit fix --force  
  
Run `npm audit` for details.  
anithabalachandran@anithas-mbp yelpanalytica %
```

## Step 10:

Sudo npm install --save aws-amplify @aws-amplify/ui-react

```
sudo: amplify-react-applications: command not found  
anithabalachandran@anithas-mbp yelpanalytica % sudo npm install --save aws-amplify @aws-amplify/ui-react  
  
added 250 packages, and audited 1786 packages in 10s  
  
254 packages are looking for funding  
  run `npm fund` for details  
  
8 vulnerabilities (2 moderate, 6 high)  
  
To address all issues (including breaking changes), run:  
  npm audit fix --force  
  
Run `npm audit` for details.  
anithabalachandran@anithas-mbp yelpanalytica %
```

## Step 12: npm start



A screenshot of a web browser window showing the "Yelp Analytics" dashboard. The title bar indicates the URL is "localhost:3000". The dashboard features a red header bar with the "Yelp Analytics" logo on the left and a "Sign Out" button on the right. Below the header is a section titled "Yelp Business Analysis". This section includes two red buttons: "General Dashboard" and "Business specific Dashboard".

localhost:3000

## Yelp Analytica

Sign Out

### Yelp Business Analysis

**yelp Business Specific Analytics Dashboard**

**BUSINESS THAT COULD BE IMPROVED**

Category	City	Business Name	Star Rating	Total reviews
Restaurant	New Orleans	Burbon House	3.5	2026

Average Rating By Year

Sentiment Review

Review Count By Year

Word Cloud Of Most Positive Reviews

Word Cloud Of Most Negative Reviews

## Yelp Analytica

Sign Out

### Yelp Business Analysis

**yelp Business Analytics Dashboard**

Total Businesses	Total Business Categories	Total States with Business Presence	Total Cities with Business Presence
150.24K	83.16K	27	1.42K

Geographic Distribution of Businesses

Business Distribution Across Categories

Category	Count
Restaurants	52.27K (8%)
Shopping	24.46 (4%)
Food	14.29K (2%)
Beauty & Spa	11.89K (2%)
Nightlife	7.04K (1%)
Health & Medical	9.9K (1%)
Event Planning & Services	7.04K (1%)
Local Services	7.04K (1%)
Bars	6.24K (1%)
Automotive	7.04K (1%)
Breakfast & Brunch	405.75K (81%)

Step 13: amplify add hosting  
amplify add hosting

```

anithabalachandran@anithas-mbp yelpanalyticapplication % sudo amplify add hosting
Password:
✓ Select the plugin module to execute · Amazon CloudFront and S3
✓ hosting bucket name · yelpanalytic-application
Static webhosting is disabled for the hosting bucket when CloudFront Distribution is enabled.

You can now publish your app using the following command:
Command: amplify publish

anithabalachandran@anithas-mbp yelpanalyticapplication %

```

#### Step 14: amplify publish

```

anithabalachandran@anithas-mbp yelpanalyticapplication % sudo amplify publish
✓ Successfully pulled backend environment dev from the cloud.

Current Environment: dev



| Category | Resource name                | Operation | Provider plugin   |
|----------|------------------------------|-----------|-------------------|
| Hosting  | S3AndCloudFront              | Create    | awscloudformation |
| Auth     | yelpanalyticapplicat9534da06 | No Change | awscloudformation |



✓ Are you sure you want to continue? (Y/n) · yes

Deploying resources into dev environment. This will take a few minutes. ·:
Deploying root stack yelpanalyticapplicat [ ===== ] 1/3
    amplify-yelpanalyticapplicat... AWS::CloudFormation::Stack      UPDATE_IN_PROGRESS
    hostingS3AndCloudFront     AWS::CloudFormation::Stack      CREATE_IN_PROGRESS
    authyelpanalyticapplicat9534d... AWS::CloudFormation::Stack UPDATE_COMPLETE
Deploying hosting S3AndCloudFront [ ===== ] 1/4
    OriginAccessIdentity      AWS::CloudFront::CloudFrontOr... CREATE_COMPLETE

```

Thu Nov 30 2023 12:10:45...
Thu Nov 30 2023 12:10:48...
Thu Nov 30 2023 12:10:50...
Thu Nov 30 2023 12:10:55...

```
Deployment completed.
Deploying root stack yelpanalyticapplicat [ ===== ] 2/3
    amplify-yelpanalyticapplicat... AWS::CloudFormation::Stack      UPDATE_IN_PROGRESS
    hostingS3AndCloudFront     AWS::CloudFormation::Stack      CREATE_COMPLETE
    authyelpanalyticapplicat9534d.. AWS::CloudFormation::Stack   UPDATE_COMPLETE
Deployed hosting S3AndCloudFront [ ===== ] 4/4
    OriginAccessIdentity       AWS::CloudFront::CloudFrontOr... CREATE_COMPLETE
    S3Bucket                  AWS::S3::Bucket                 CREATE_COMPLETE
    CloudFrontDistribution    AWS::CloudFront::Distribution  CREATE_COMPLETE
    PrivateBucketPolicy        AWS::S3::BucketPolicy          CREATE_COMPLETE

Deployment state saved successfully.

Hosting endpoint: https://d15kz1z0ld9lx8.cloudfront.net

> yelpanalyticapplication@0.1.0 build
> react-scripts build

Creating an optimized production build...
One of your dependencies, babel-preset-react-app, is importing the
"@babel/plugin-proposal-private-property-in-object" package without
declaring it in its dependencies. This is currently working because
"@babel/plugin-proposal-private-property-in-object" is already in your
node_modules folder for unrelated reasons, but it may break at any time.

babel-preset-react-app is part of the create-react-app project, which
is not maintained anymore. It is thus unlikely that this bug will
ever be fixed. Add "@babel/plugin-proposal-private-property-in-object" to
your devDependencies to work around this error. This will make this message
go away.

Compiled successfully.
```

```
Compiled successfully.
```

```
File sizes after gzip:
```

```
158.57 kB  build/static/js/main.251c5245.js
28.44 kB   build/static/css/main.280da95f.css
```

```
The project was built assuming it is hosted at /.
```

```
You can control this with the homepage field in your package.json.
```

```
The build folder is ready to be deployed.
```

```
You may serve it with a static server:
```

```
npm install -g serve
serve -s build
```

```
Find out more about deployment here:
```

```
https://cra.link/deployment
```

```
frontend build command exited with code 0
```

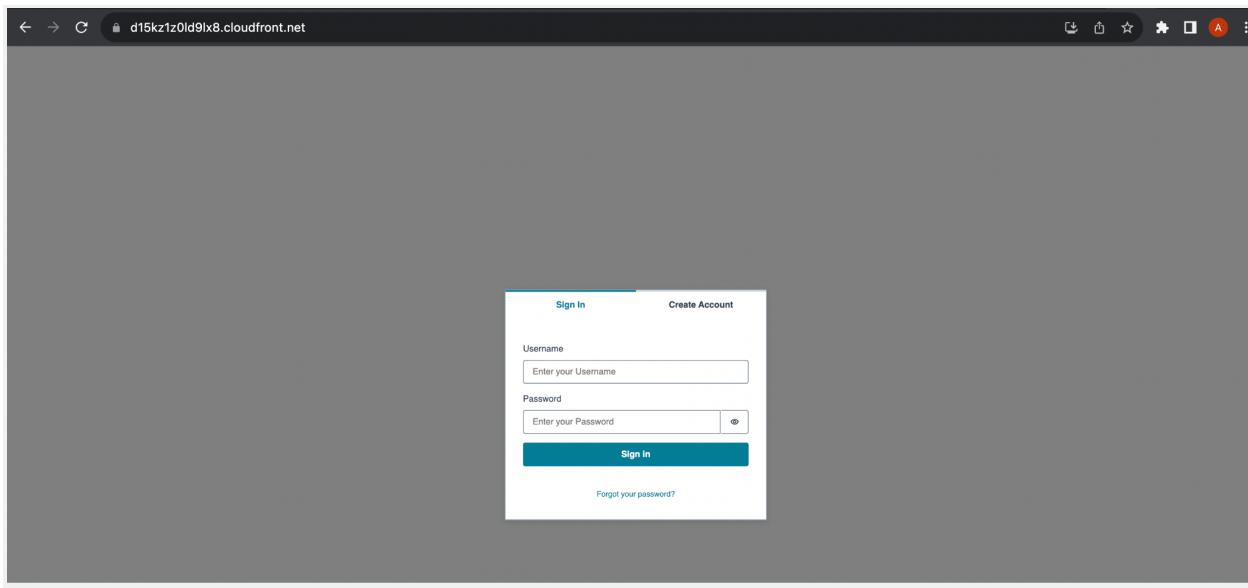
```
Publish started for S3AndCloudFront
```

```
✓ Uploaded files successfully.
```

```
Your app is published successfully.
```

```
https://d15kz1z0ld9lx8.cloudfront.net
```

```
anithabalachandran@anithas-mbp yelpanalyticapplication % █
```

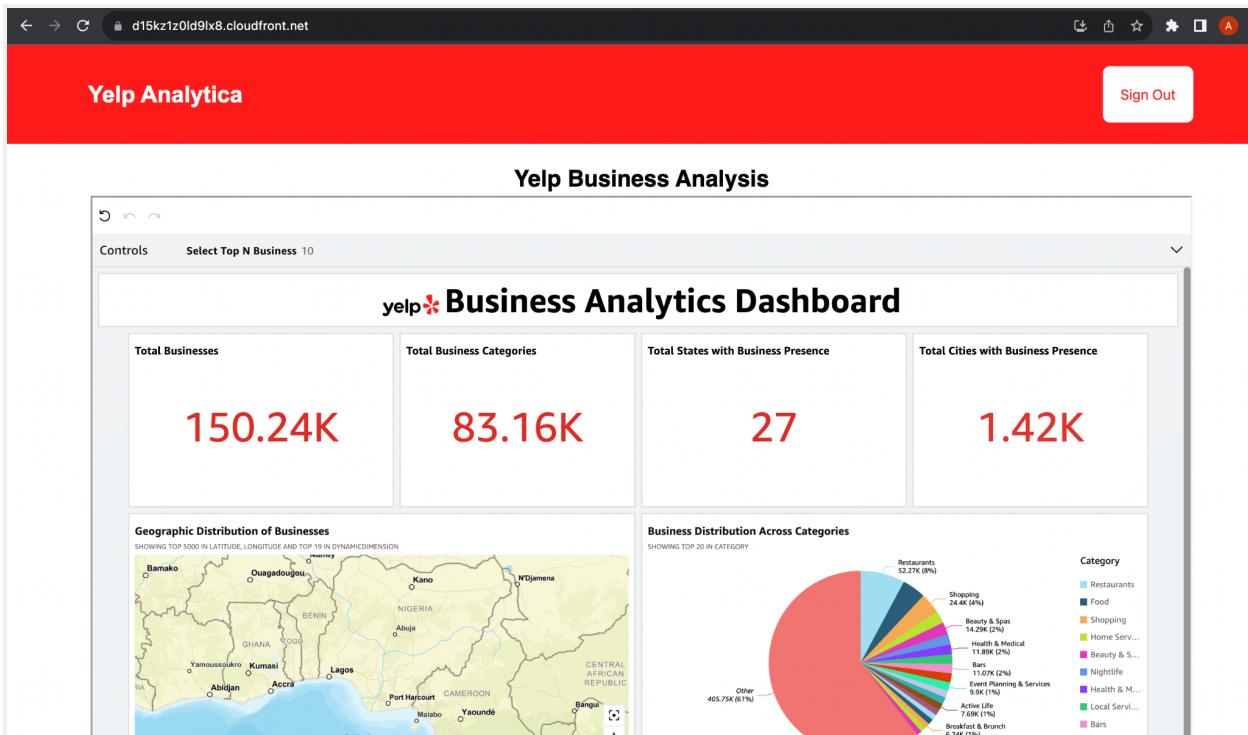


Yelp Analytics

Sign Out

Yelp Business Analysis

General Dashboard      Business specific Dashboard



← → C d15kz1z0ld9lx8.cloudfront.net

**Yelp Analytica**

Sign Out

### Yelp Business Analysis

Sheet 1 | Sheet 2 | Controls | Select Top Reviews 10

## yelp Business Specific Analytics Dashboard

### BUSINESS THAT COULD BE IMPROVED

Category	City	Business Name	Star Rating	Total reviews
Restaurant	New Orleans	Burbon House	3.5	2026

Average Rating By Year

Year	Avg Rating
2006	3.5
2007	3.6
2008	3.5
2009	3.5
2010	3.5
2011	3.5
2012	3.5
2013	3.5
2014	3.5
2015	3.5
2016	3.5
2017	3.5
2018	3.5
2019	3.5
2020	3.5
2021	4.0

Sentiment Review

Sentiment	Count
POSITIVE	108
NEGATIVE	37

Review Count By Year

Year	Review Count
2006	10
2007	20
2008	30
2009	40
2010	50
2011	60
2012	70
2013	80
2014	90
2015	100
2016	110
2017	120
2018	130
2019	140
2020	150
2021	160

Word Cloud Of Most Positive Reviews

Word Cloud Of Most Negative Reviews