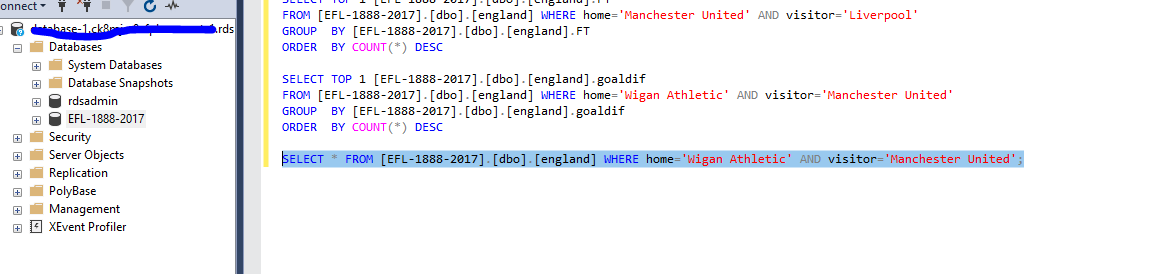
Create MSSQL RDS Instance and import football league data.



Create Lambda Function

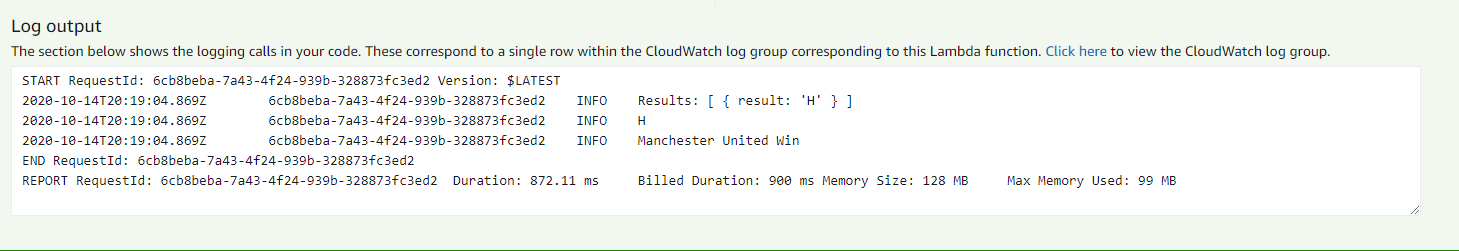
allow lambda to access vpc

<https://docs.aws.amazon.com/lambda/latest/dg/configuration-vpc.html>

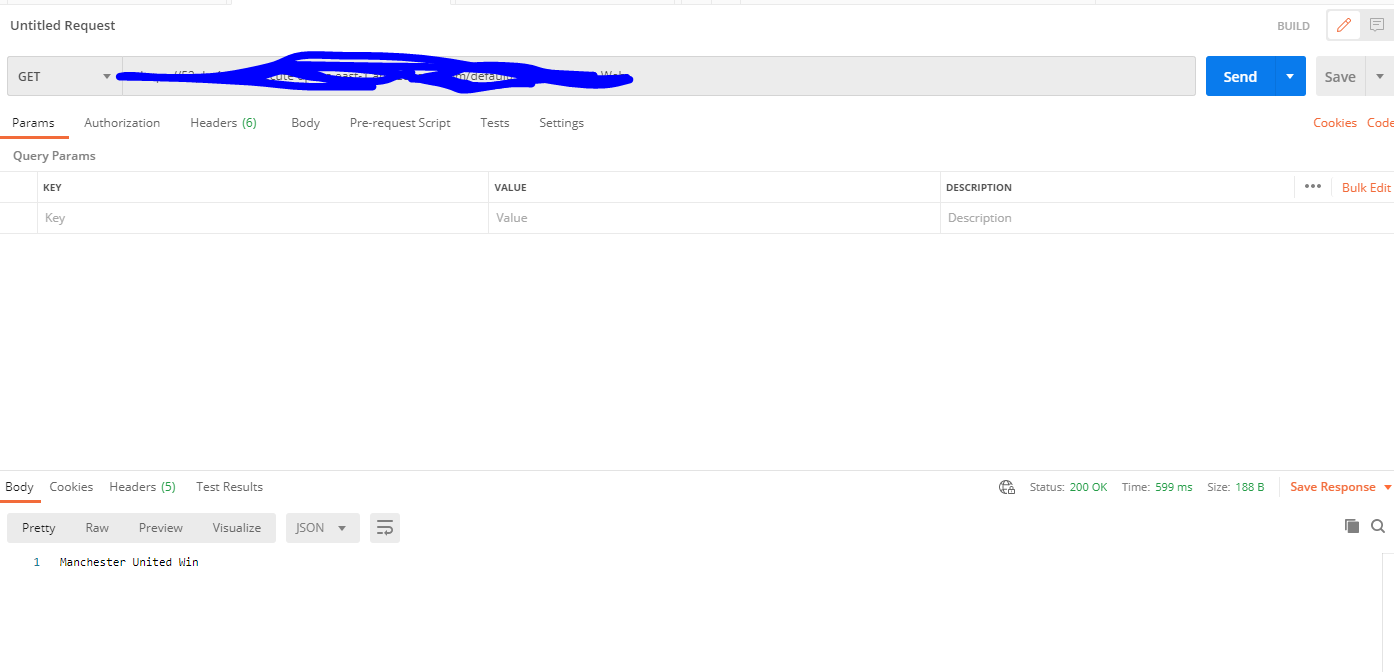
“You can configure Lambda to access your RDS instance.

You can enable this using Lambda management console. Select Lambda function which need access to RDS instance and then go to Configuration -> Advanced settings and select the VPC (which is your RDS instance is in) you need it to access.”

Function moved into Lambda in node js



API Gateway configured



Next Steps

* Home and away team parameter added to api gateway to invoke lambda

exports.handler = async (event, context, callback) => {

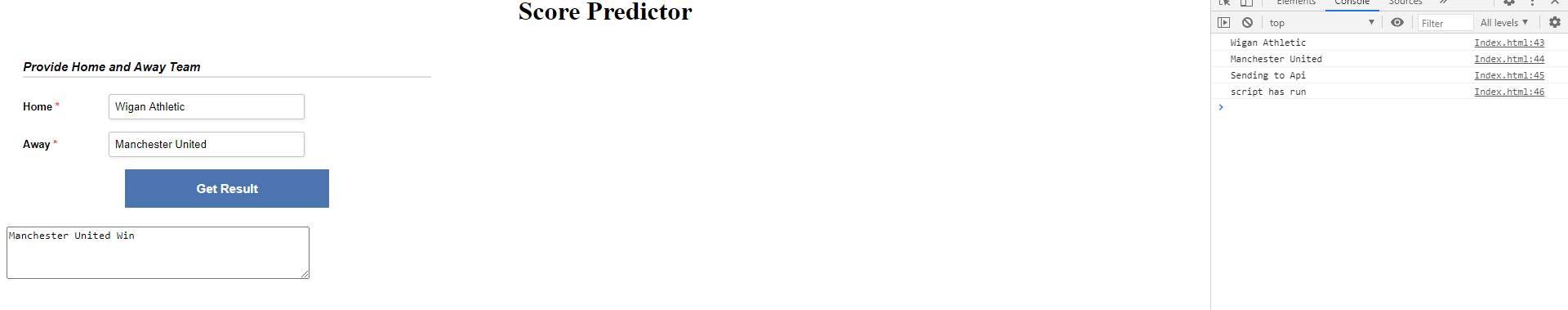
console.log(event);

let lookupValue = event.lookupValue;

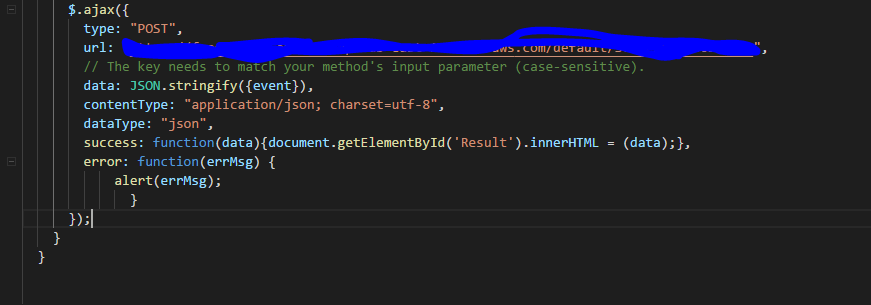
var Home = (event.event.Home);

var Away = (event.event.Away);

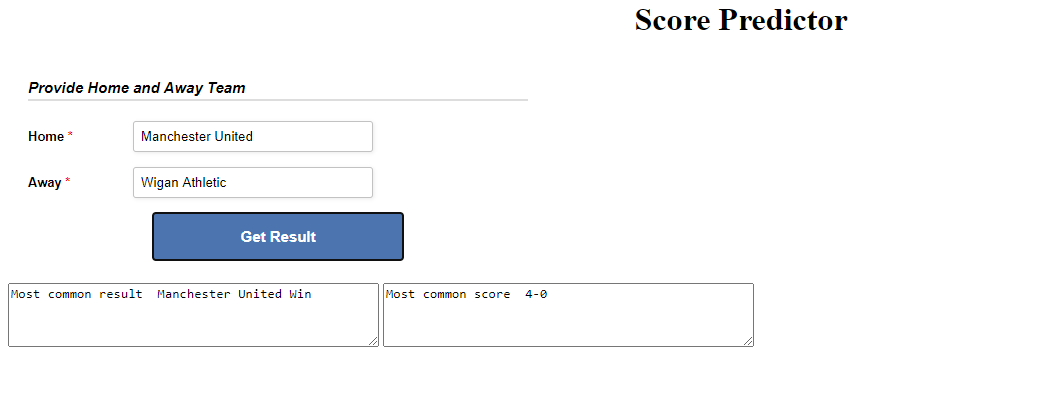
* S3 front end take home team and away team values hit api end point return result



Code to complete API request in browser

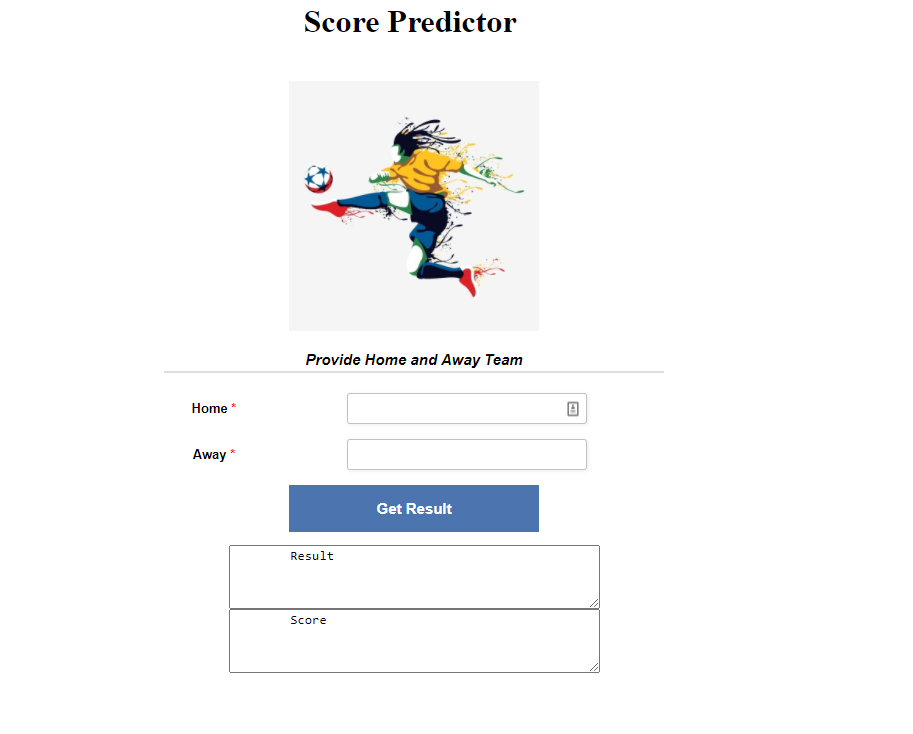


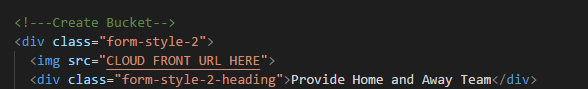
Additional Query Added



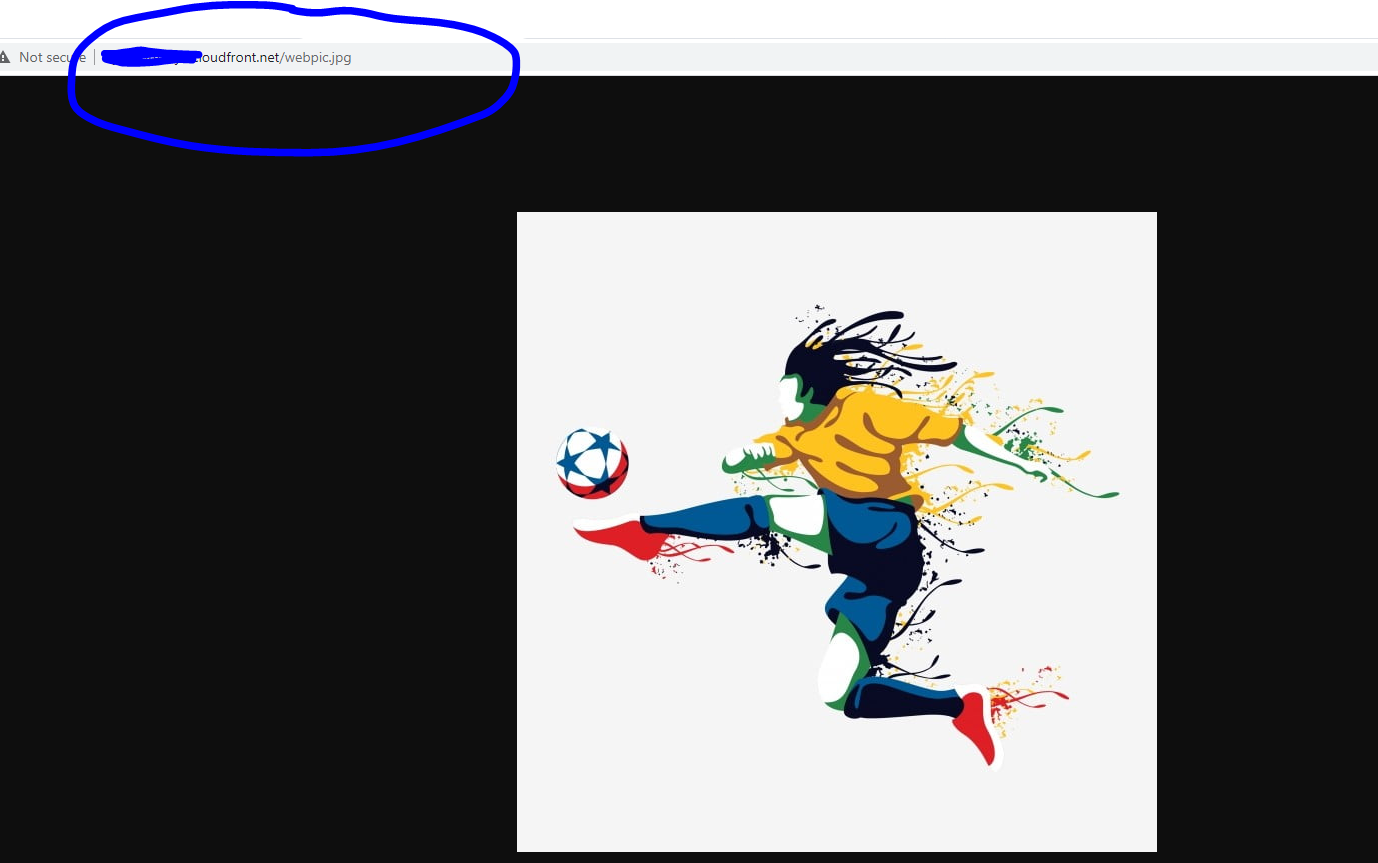
* Add validation to protect from SQL Injection
* Phase 1 complete

Serving Image via cloudfront





Create second S3 bucket with just image and then create cloudfront distribution and update link in HTML, Allow public access to image bucket, (still restricting frontend)



* Phase 2 – additional queries

Chrome Testing utility

PS C:\Program Files (x86)\Google\Chrome\Application> .\chrome.exe --user-data-dir="C://Chrome dev session" --disable-web-security

Possession Query

* Second DB Table -Import to RDS
* Query : 'SELECT [england-premier-league-matches-2018-19-stats].home\_team\_possession,away\_team\_possession FROM [england-premier-league-matches-2018-19-stats] WHERE home\_team\_name=\'' + Home + '\' AND away\_team\_name=\'' + Away + '\'');
* Add Lambda Function and Api gateway
* Update Front end
* Additional Functionality to generate Pie Chart - <https://code.tutsplus.com/tutorials/how-to-draw-a-pie-chart-and-doughnut-chart-using-javascript-and-html5-canvas--cms-27197>
* Generate Chart based on values from DB

