Folder and Files details

Folder Name : **SRE\_Assignment**

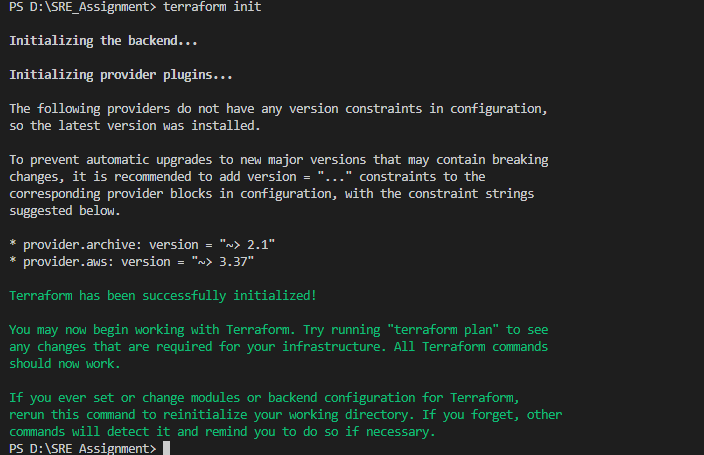
Terraform files

1. Api.tf – Creates Api gateway resources and method
2. DiceRoll\_GetData\_lambda.py – Code to create lambda function for retrieving results from DynamoDB
3. DiceRoll\_Simulation\_lambda.py – Code for create lambda function for creating dice simulations and store it to DynamoDB
4. dynamodb.tf – Creates DynamoDB resources
5. iam.tf. – Create Iam roles and policies used for lambda function
6. main.tf. – Creates Lambda resources
7. outputs.tf. – Gives APIGateway URLs for creating simulation and get results of the simulation
8. variables.tf – defined variables , please pass your region , by default resources will create at “ap-southeast-1”

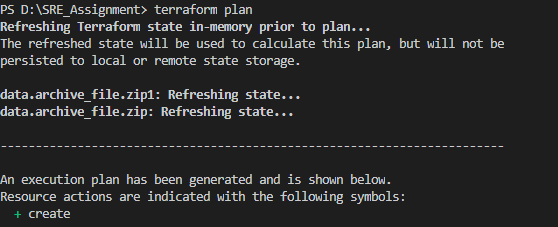
Text

Description automatically generated

Terraform initialization



Terraform Plan

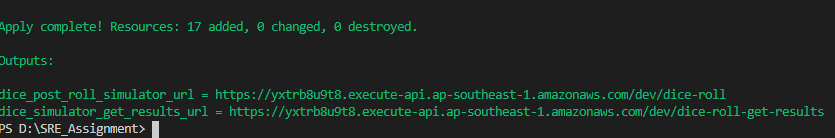




Terraform Apply







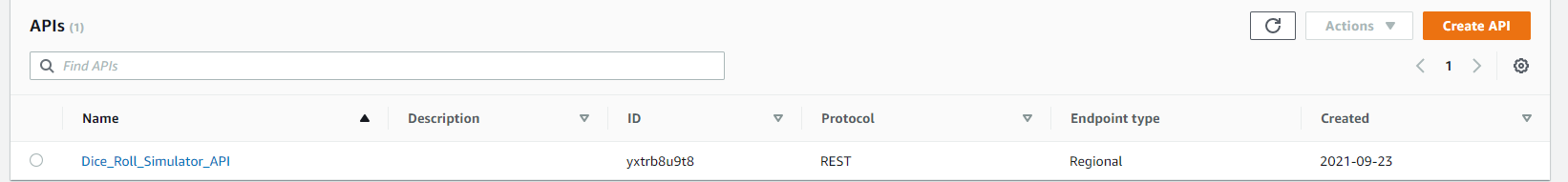
dice\_post\_roll\_simulator\_url = [This](https://yxtrb8u9t8.execute-api.ap-southeast-1.amazonaws.com/dev/dice-roll) API will perform the simulation as per parameters passed

dice\_simulator\_get\_results\_url = [Thi](https://yxtrb8u9t8.execute-api.ap-southeast-1.amazonaws.com/dev/dice-roll-get-results)s API will provide you the simulation details

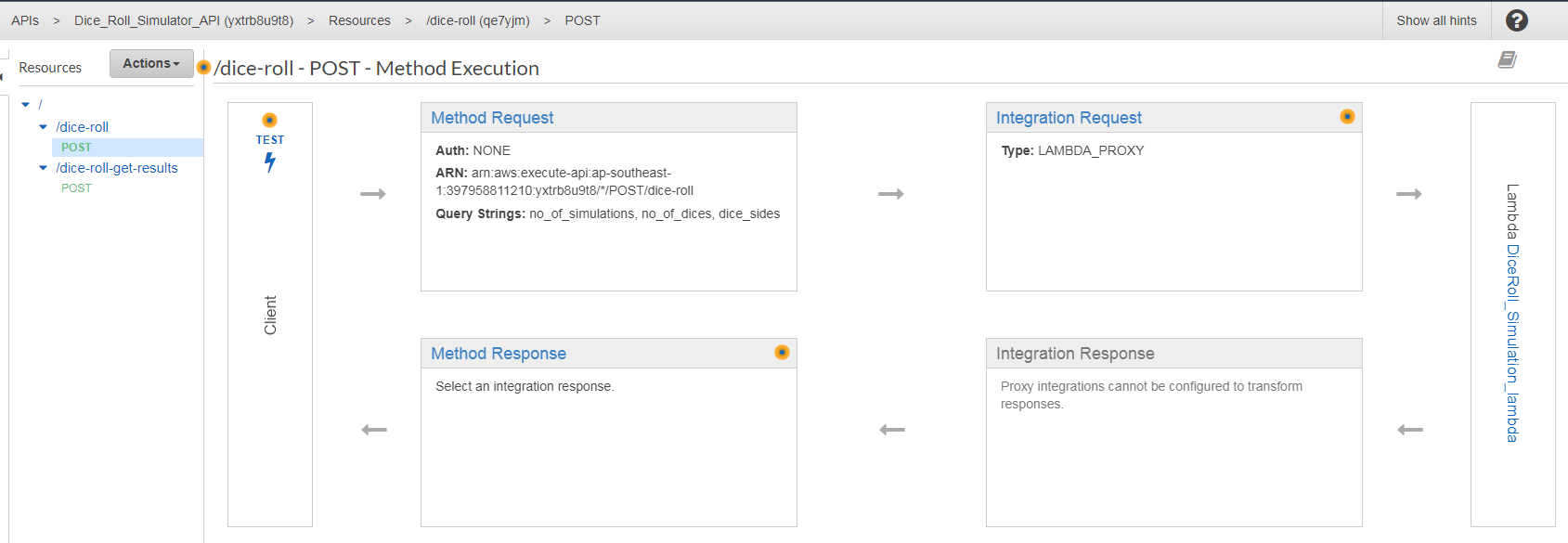
**Note : Please use POST type method for both the API calls from the client**

1. As mentioned in the assignment , number of dice, the sides of the dice and the total number of rolls configurable through query parameters.   
   * 1. dice\_sides = sides of the dice
     2. no\_of\_dices. = number of dice,
     3. no\_of\_simulations = total number of rolls
2. Please take the dice\_post\_roll\_simulator\_url API URLS from the output screen and append the parameters like below example
   1. https://ijnpoilx86.execute-api.ap-southeast-1.amazonaws.com/dev/dice-roll?dice\_sides=6&no\_of\_dices=3&no\_of\_simulations=25

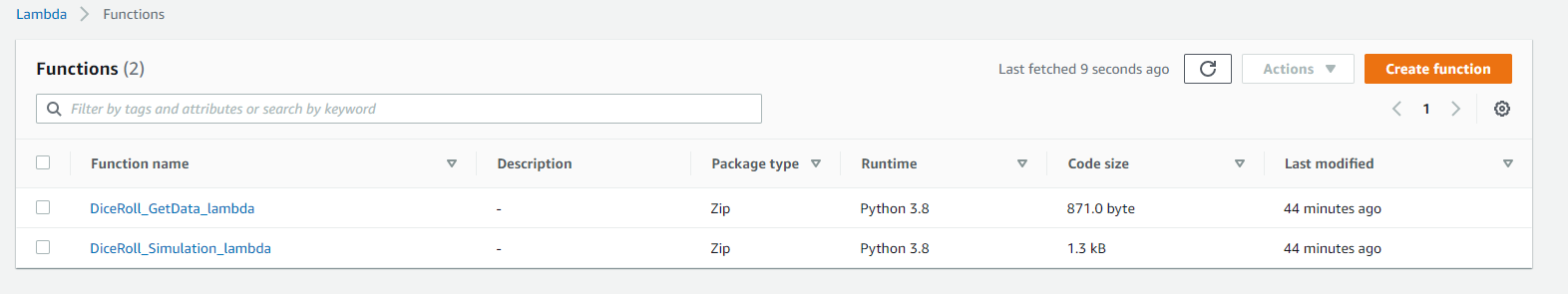
API creation screen shots



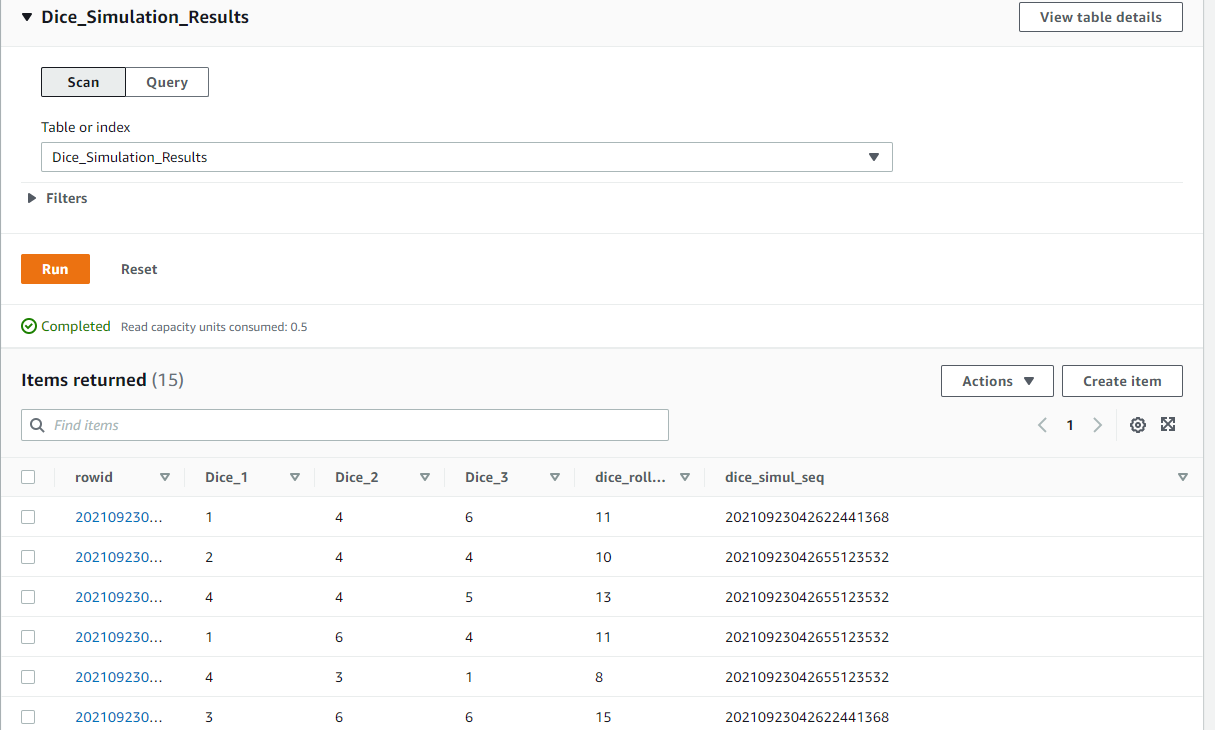
API Resources screen shots

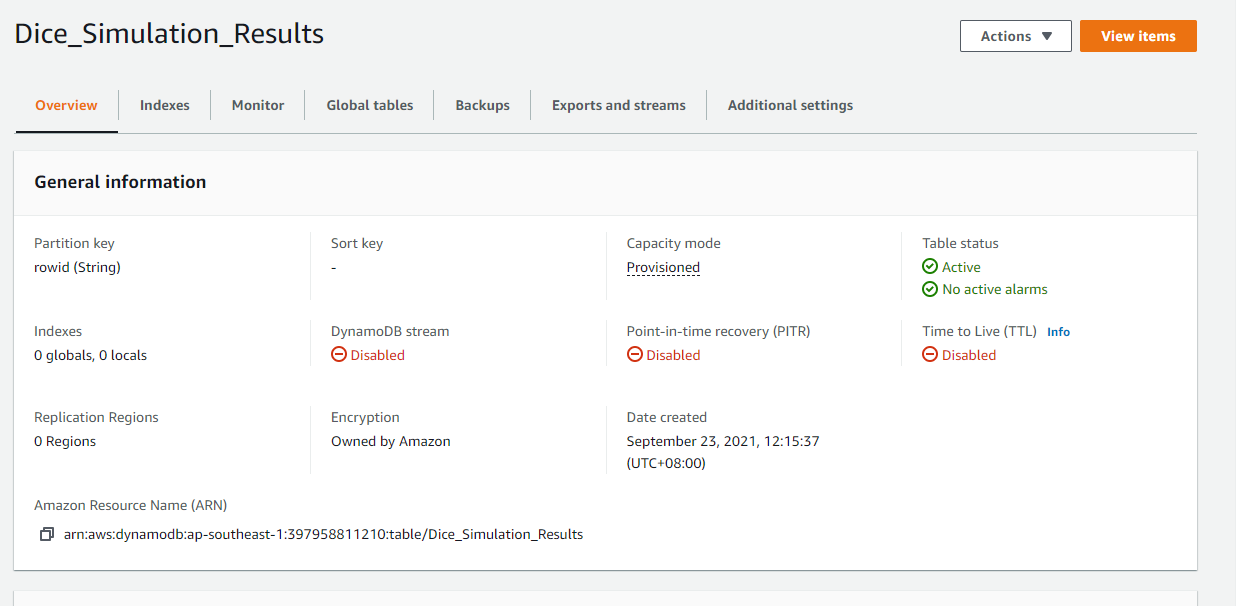


Lambda function screen shots

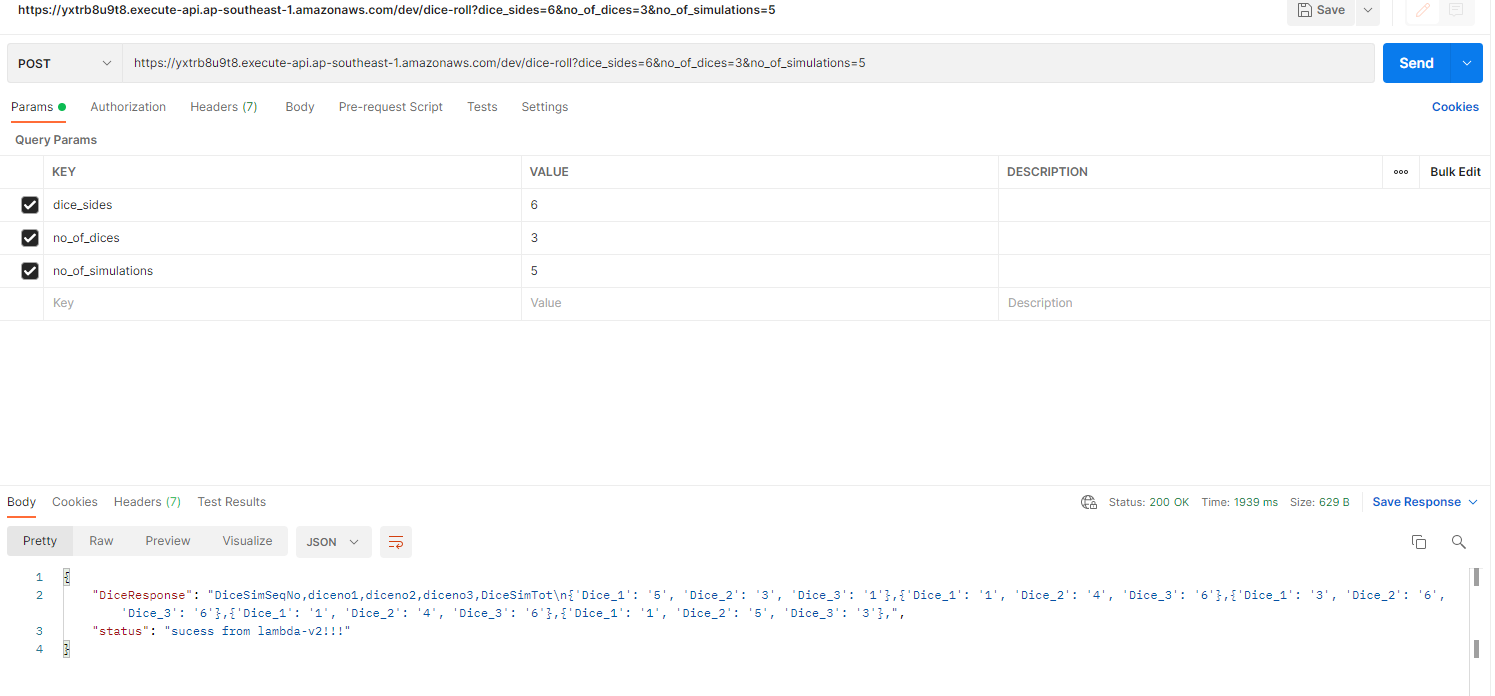


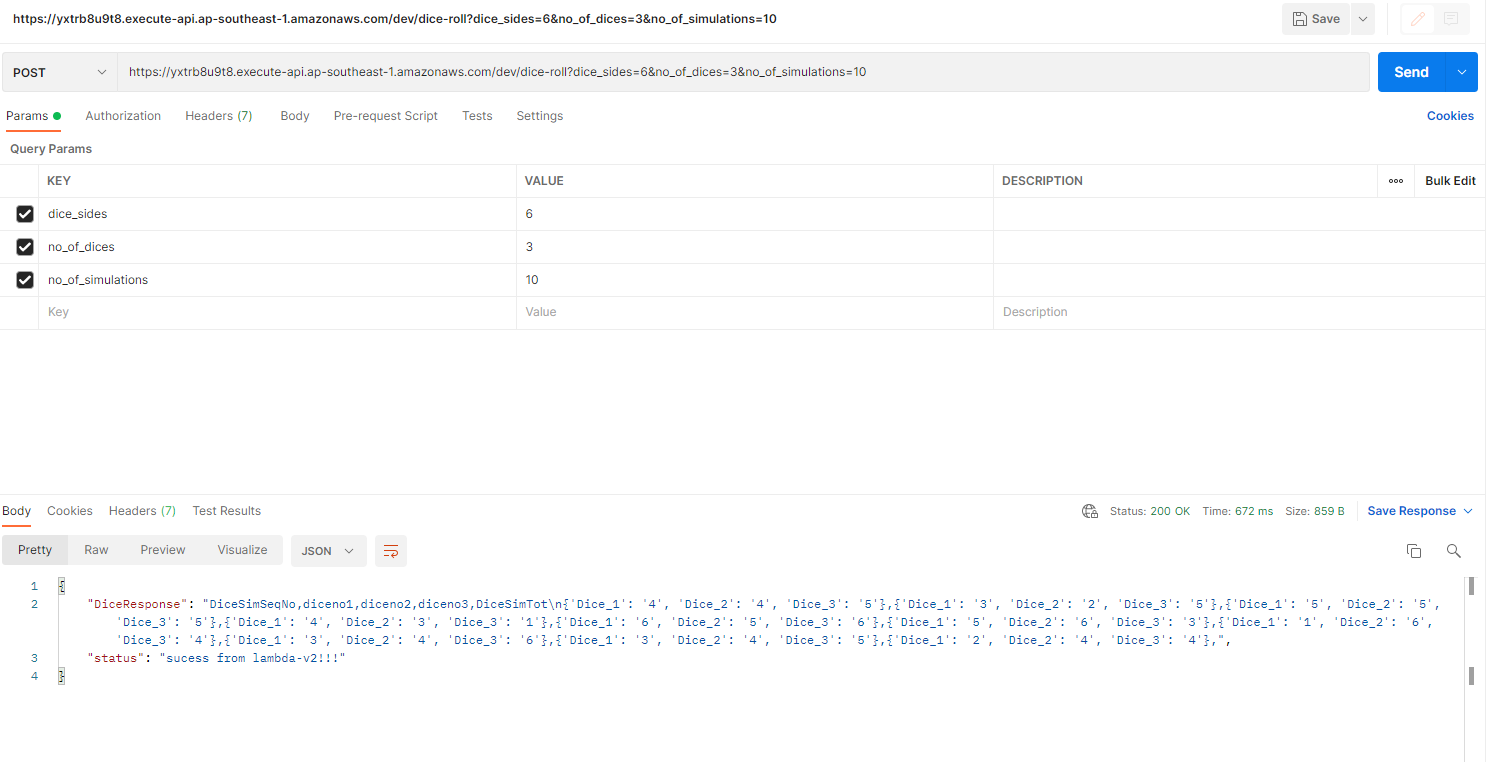
DynamoDB Scan results screenshots





PostMan app -- POST rest api called Screen shot with arguments passed with results below





POSTMAN - retrive api results from DynamoDB screenshot

