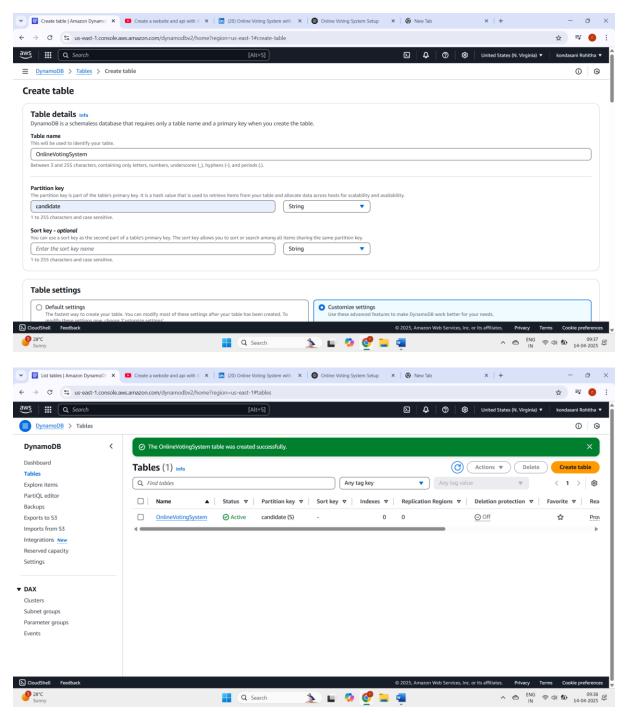
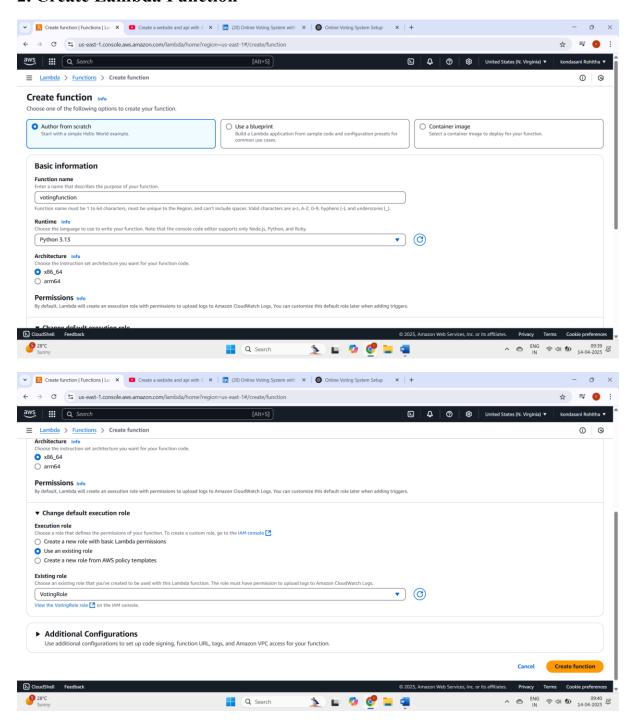
# **Online Voting System**

## 1.Create DynamoDB Table:



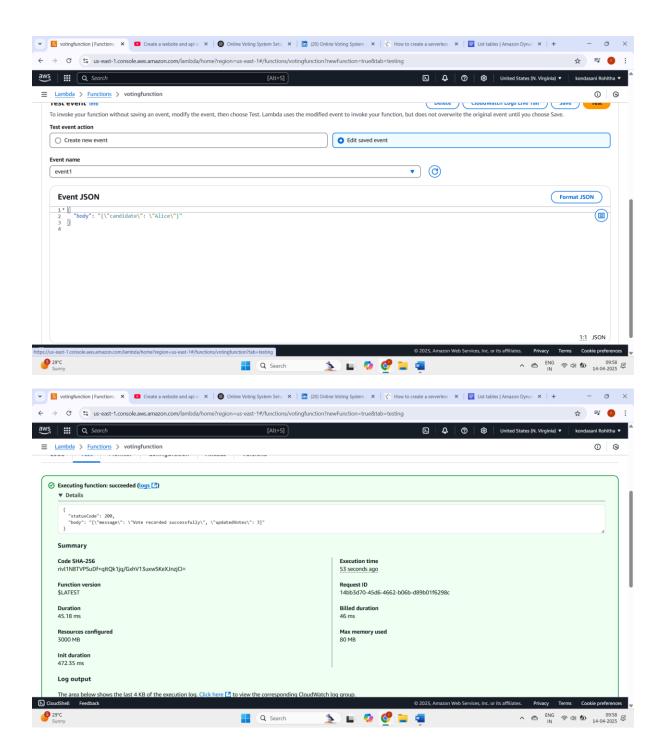
#### 2. Create Lambda Function



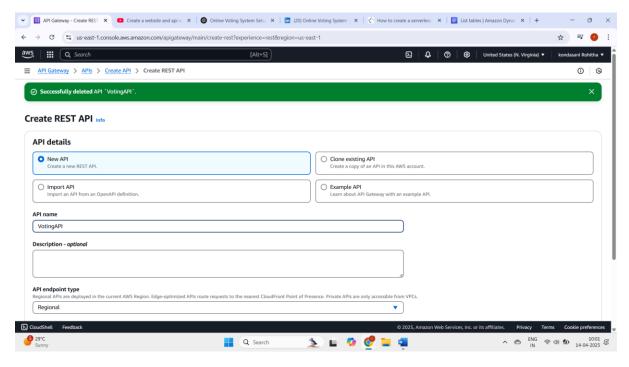
### Code:

```
import json
import boto3
from decimal import Decimal
dynamodb = boto3.resource('dynamodb')
table = dynamodb.Table('OnlineVotingSystem')
# Helper function to convert Decimals in the response
def convert decimal(obj):
  if isinstance(obj, Decimal):
     return int(obj) if obj \% 1 == 0 else float(obj)
  if isinstance(obj, dict):
     return {k: convert decimal(v) for k, v in obj.items()}
  if isinstance(obj, list):
     return [convert decimal(i) for i in obj]
  return obj
def lambda handler(event, context):
  try:
     body = json.loads(event['body']) if 'body' in event else event
  except Exception:
     return {
       'statusCode': 400,
       'body': json.dumps({'message': 'Invalid JSON input'})
     }
```

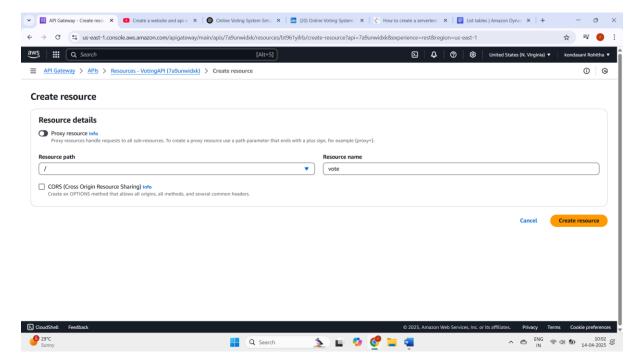
```
candidate = body.get('candidate')
if not candidate:
  return {
     'statusCode': 400,
     'body': json.dumps({'message': 'candidate is required'})
  }
# Update the vote count atomically
response = table.update item(
  Key={'candidate': candidate},
  UpdateExpression='ADD votes :inc',
  ExpressionAttributeValues={':inc': Decimal(1)},
  ReturnValues='UPDATED NEW'
)
return {
  'statusCode': 200,
  'body': json.dumps({
     'message': 'Vote recorded successfully',
     'updatedVotes': convert_decimal(response['Attributes']['votes'])
  })
}
```



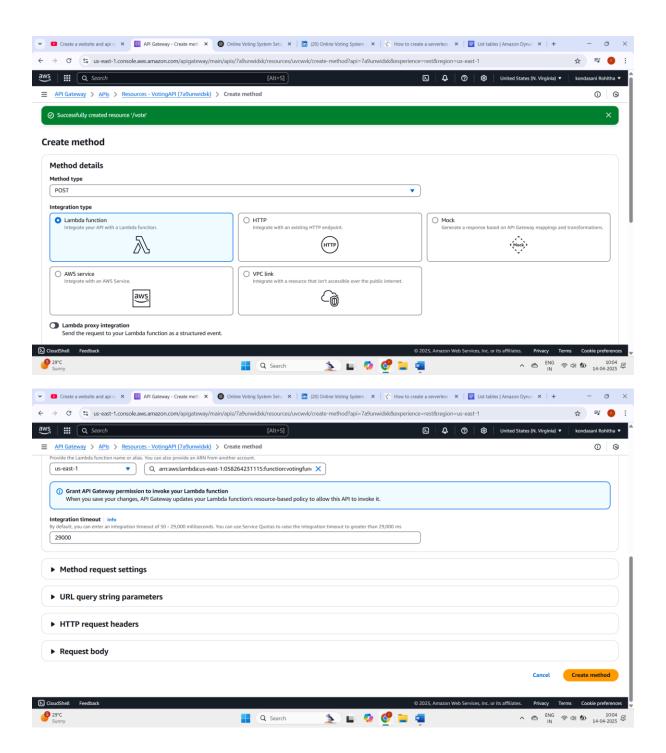
#### 3. Create RestAPI

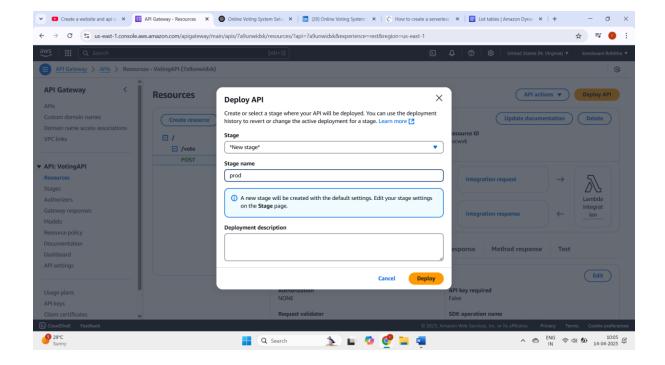


#### Create Resource:

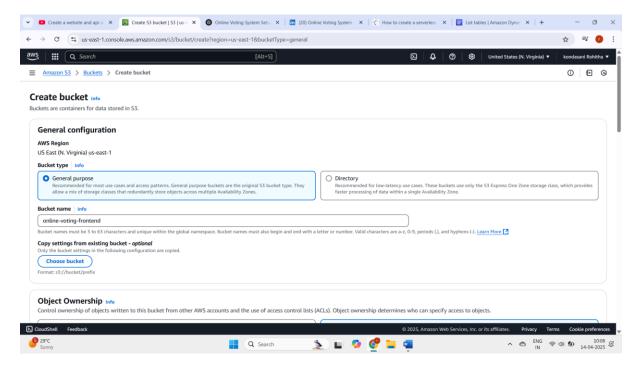


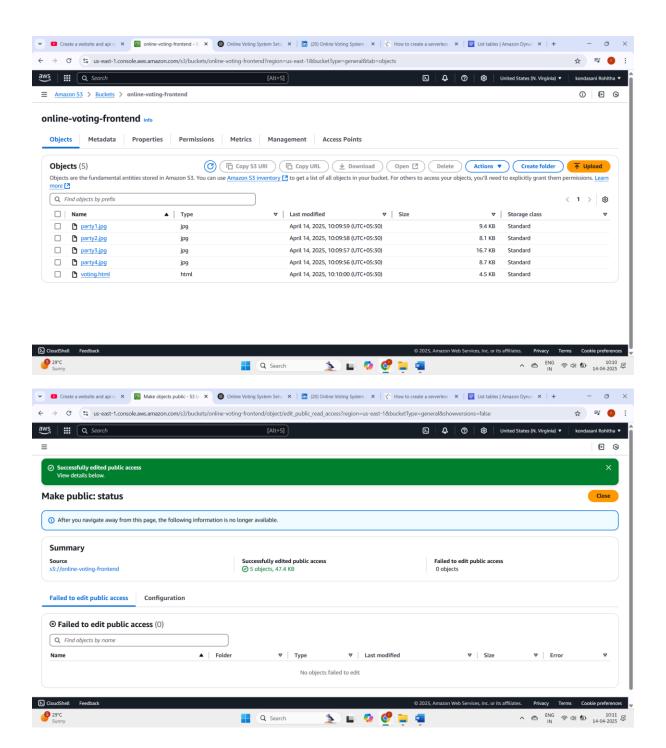
Create Method:

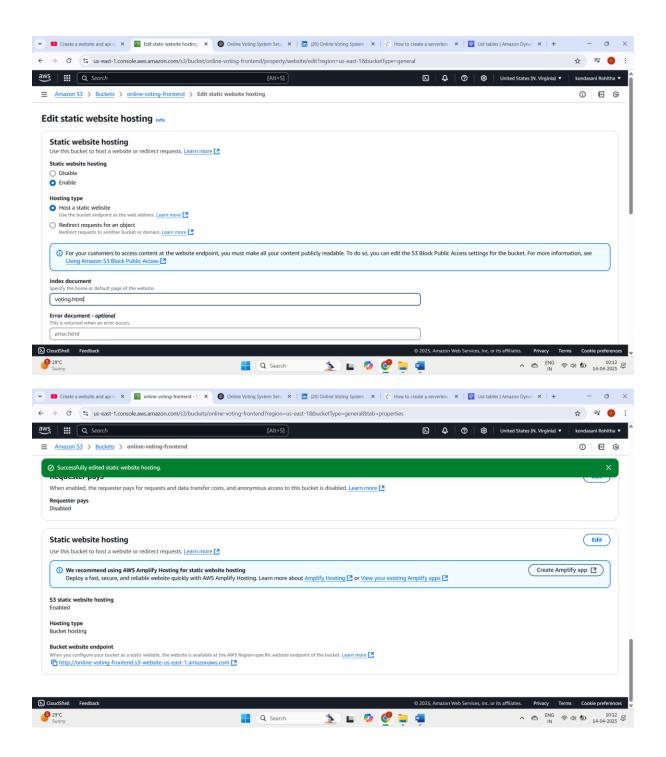


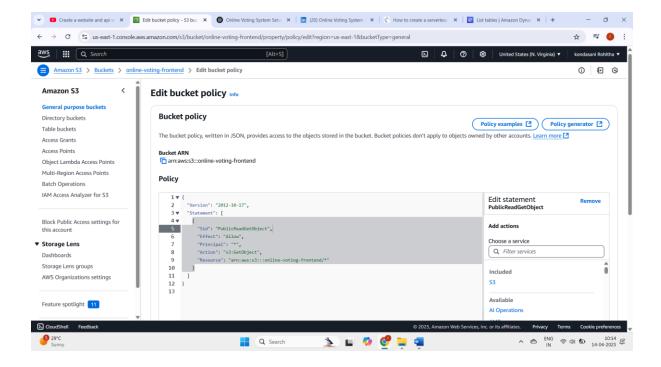


#### 4. Create S3 Bucket

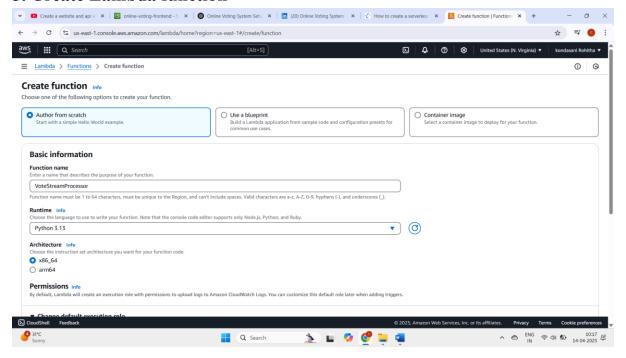








#### 5. Create Lambda function



#### Code:

import json

import boto3

dynamodb = boto3.resource('dynamodb')

```
def lambda handler(event, context):
   # Scan the entire table to get all candidate vote counts
   response = table.scan()
   # Create a dictionary with candidate names and their vote counts
   votes = {item['candidate']: item.get('Votes', 0) for item in response['Items']}
   return {
      'statusCode': 200,
      'body': json.dumps(votes)
   }
            X | 🖸 online-voting-fir X 🕙 Online Voting X | 🐧 Lambda Vote Re X | 🛅 (20) Online Votin X | 🕻 How to create a X | 🚮 VoteStreamProx X | 📳 List tables | Ama X | +
                                            Vote for Your Party
                                                         Bharat Rashtra Samithi
                                                                              Telugu Desam Party
                      O Select
                                                              O Select
                                                                                  Select
```

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table = dynamodb.Table('OnlineVotingSystem') # Updated table name

