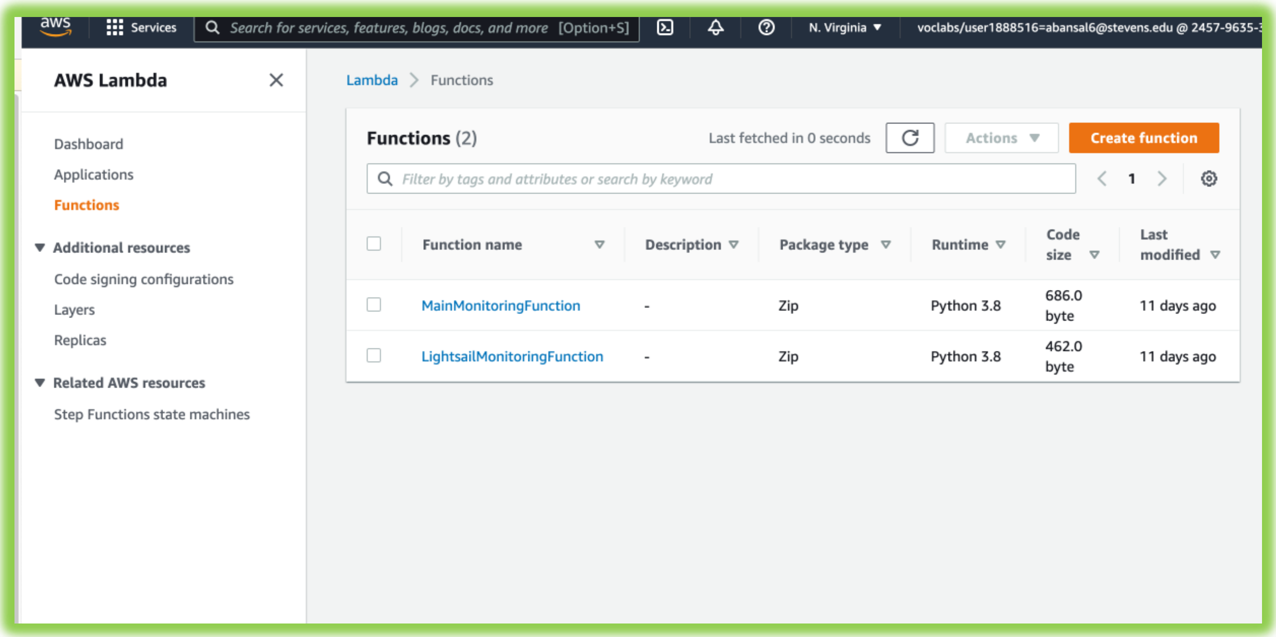
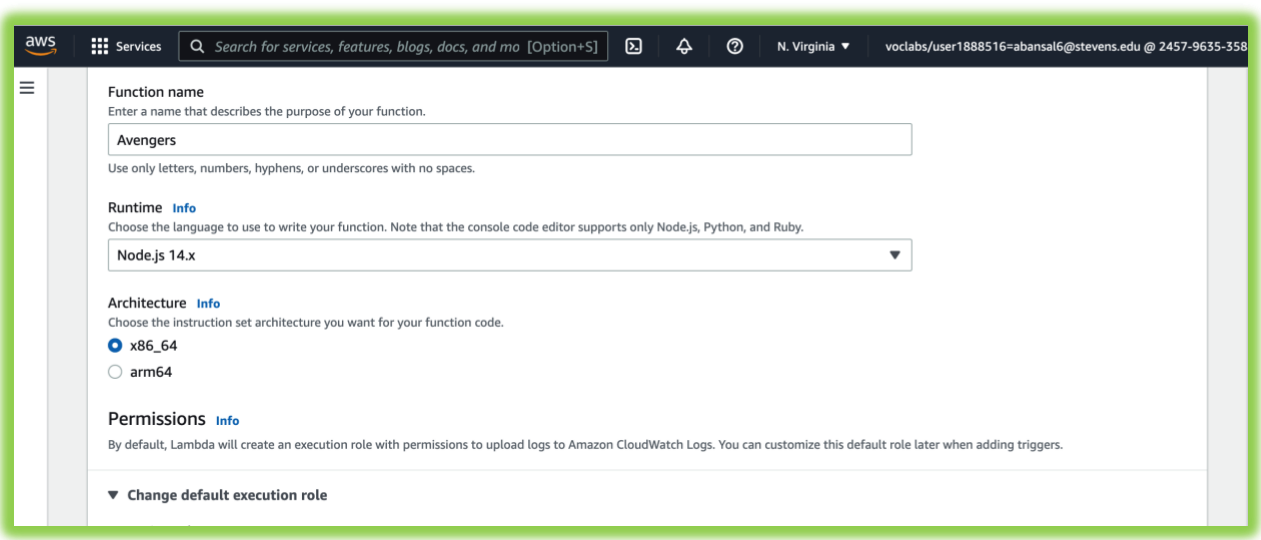
Anchal Bansal 10478699 CS-524 A Final Project

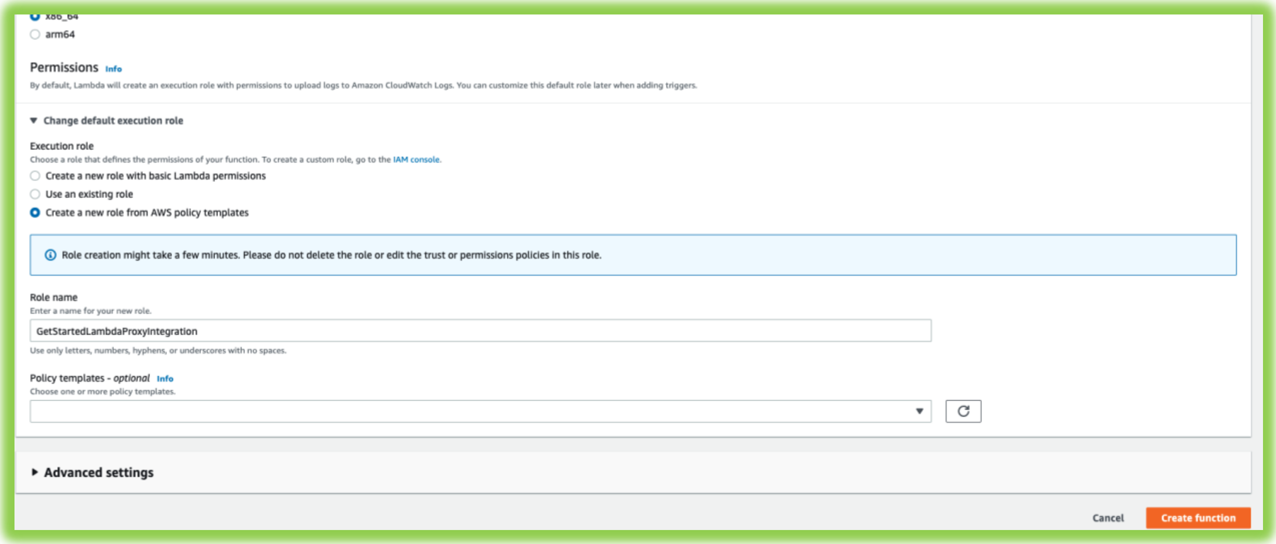
AWS:

I signed into my AWS account and searched for Lambda. Choose Create function in the Functions.



Under the create functions I entered the name of my function as Avengers and created a role for execution and named it as 'GetStartedLambdaProxyExecution'. Click on Create Function option.

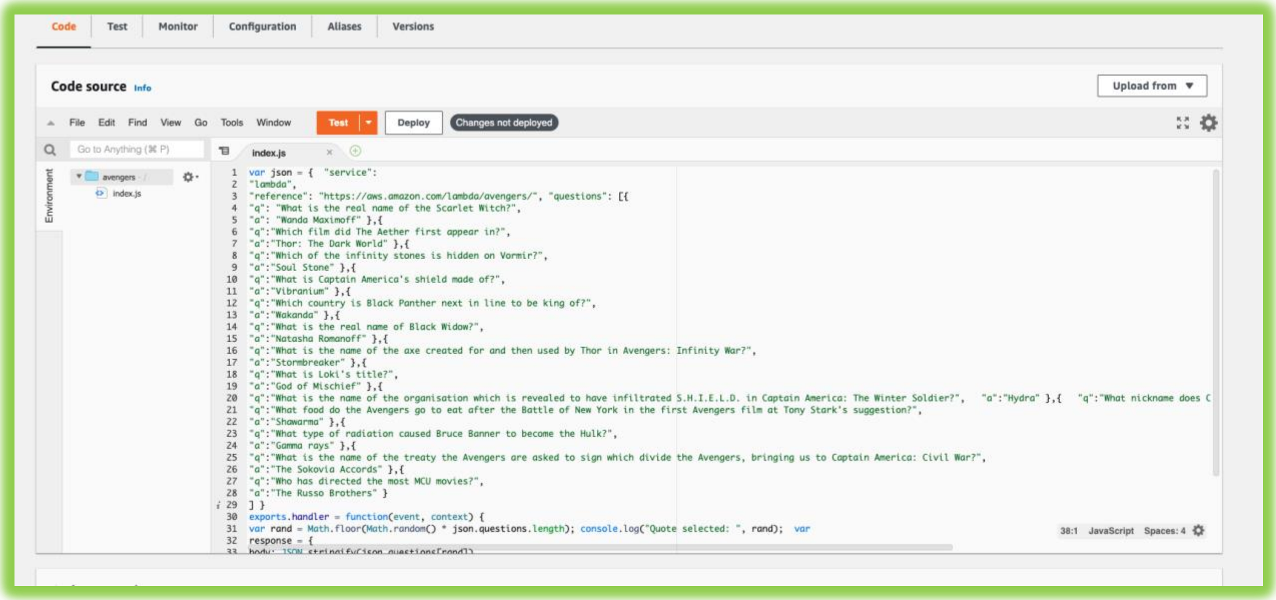




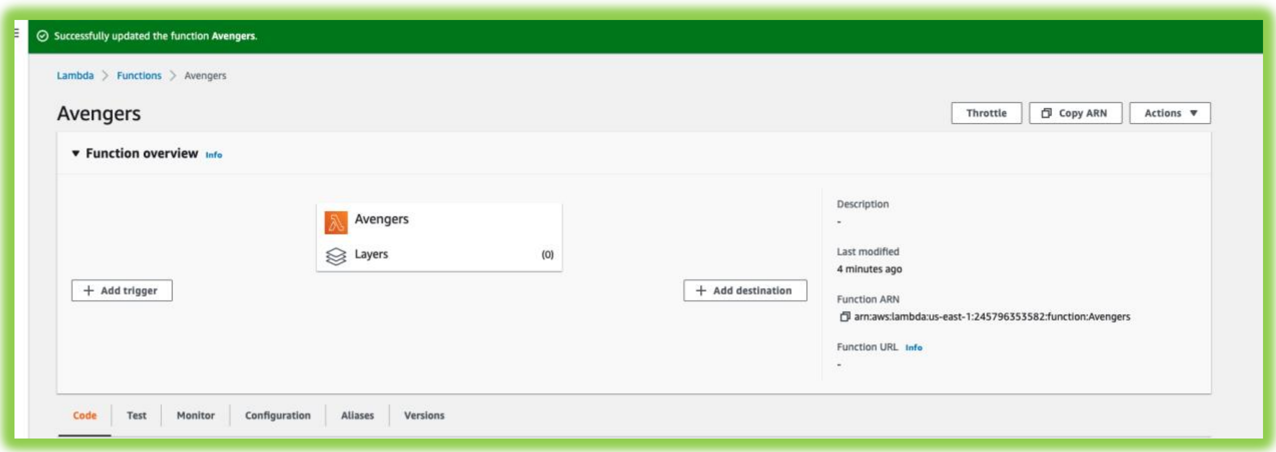
On the next page, I entered the following code on the code editor and clicked on Deploy:

```
var json = {  "service":
"lambda",
"reference": "https://aws.amazon.com/lambda/avengers/", "questions": [{
"q": "What is the real name of the Scarlet Witch?",
"a": "Wanda Maximoff" },{
"q":"Which film did The Aether first appear in?",
"a":"Thor: The Dark World" },{
"q":"Which of the infinity stones is hidden on Vormir?",
"a":"Soul Stone" },{
"q":"What is Captain America's shield made of?",
"a":"Vibranium" },{
"q":"Which country is Black Panther next in line to be king of?",
"a":"Wakanda" },{
"q":"What is the real name of Black Widow?",
"a":"Natasha Romanoff" },{
"q":"What is the name of the axe created for and then used by Thor in Avengers:
Infinity War?",
"a":"Stormbreaker" },{
"q":"What is Loki's title?",
"a":"God of Mischief" },{
"q":"What is the name of the organisation which is revealed to have infiltrated
```

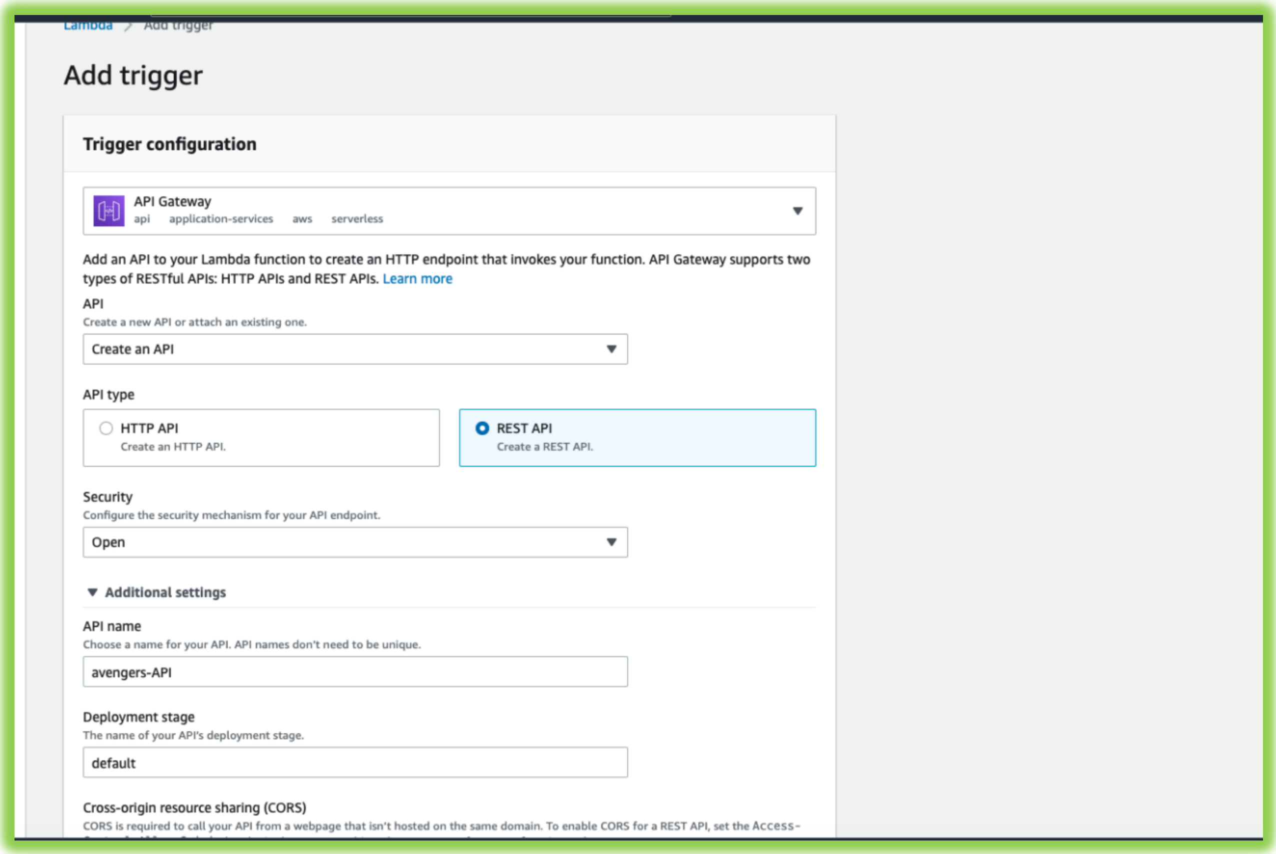
```
S.H.I.E.L.D. in Captain
America: The Winter Soldier?",
"a":"Hydra" },{



"q":"What nickname does Captain America know the Winter Solider as?",
"a":"Bucky"
},{
"q":"What food do the Avengers go to eat after the Battle of New York in the first
Avengers film at Tony
Stark's suggestion?",
"a":"Shawarma" },{
"q":"What type of radiation caused Bruce Banner to become the Hulk?",
"a":"Gamma rays" },{
"q":"What is the name of the treaty the Avengers are asked to sign which divide the
Avengers, bringing us
to Captain America: Civil War?",
"a":"The Sokovia Accords" },{
"q":"Who has directed the most MCU movies?",
"a":"The Russo Brothers" }
] }
exports.handler = function(event, context) {
var rand = Math.floor(Math.random() * json.questions.length);
console.log("Quote selected: ", rand);  var
response = {
body: JSON.stringify(json.questions[rand])
};
console.log(response); context.succeed(response);
};
```



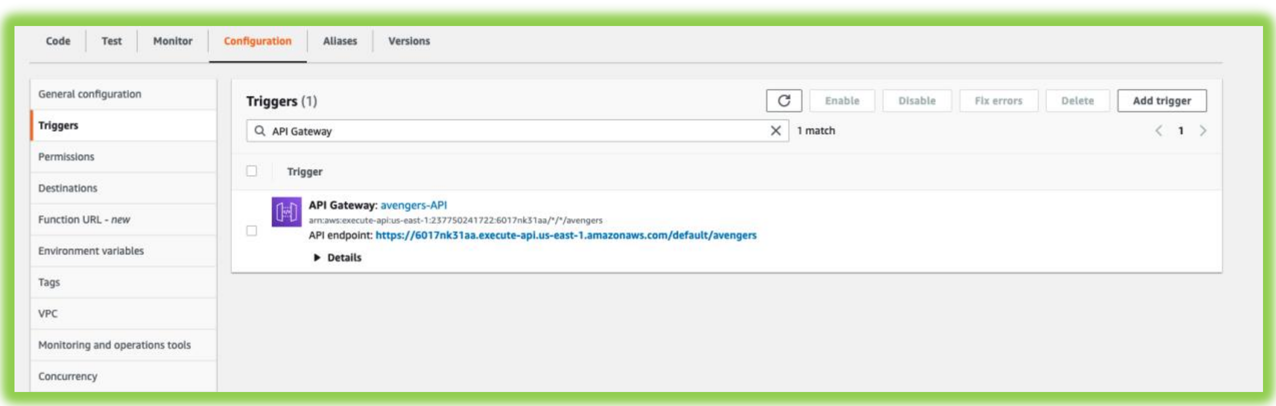
After deploying, I get the message of successful deployment. I click on Add Trigger button under Function Overview.



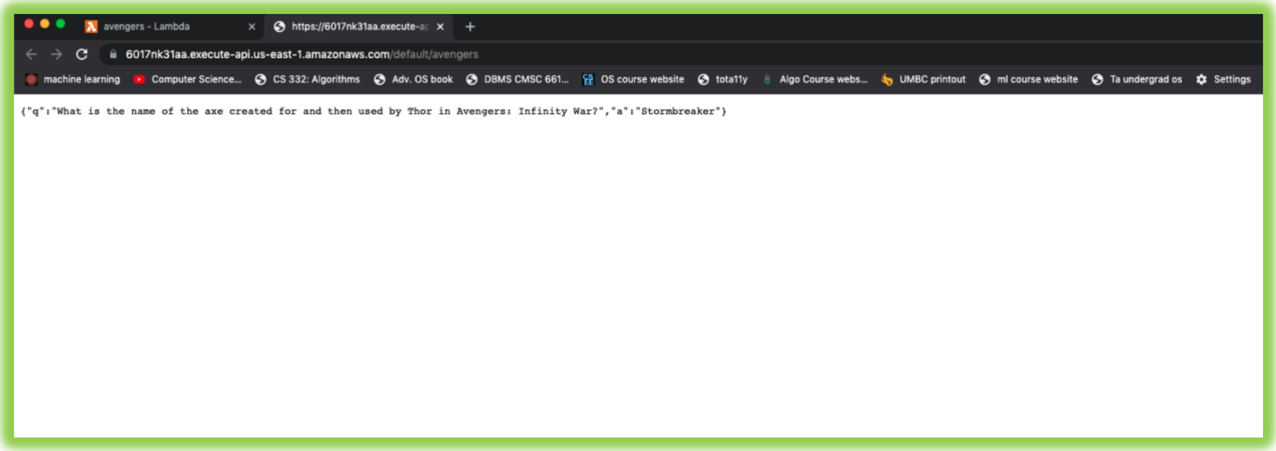
On this Add Trigger Page, I chose API Gateway and chose ‘Create an API’ option. Then under API type I chose ‘REST API’ and chose Security to be Open. I chose the additional settings as shown below and clicked on Add.



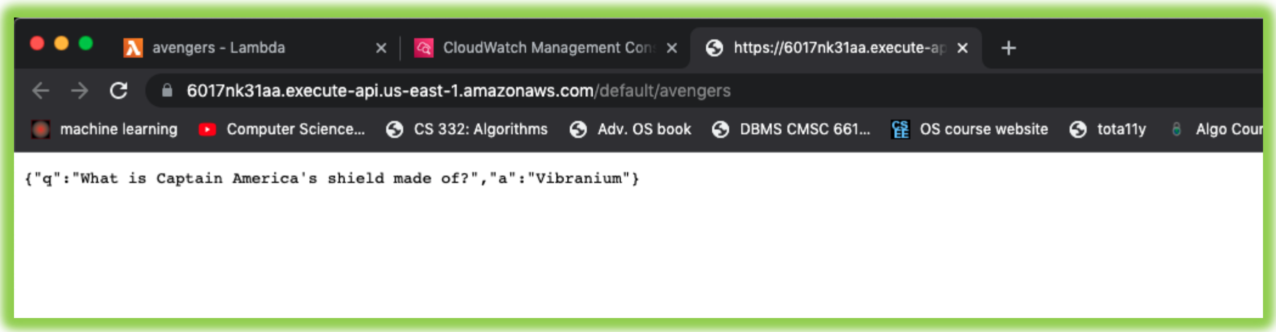
Under the configuration, I can see Trigger created with the end point as https://6017nk31aa.execute-api.us-east-1.amazonaws.com/default/avengers



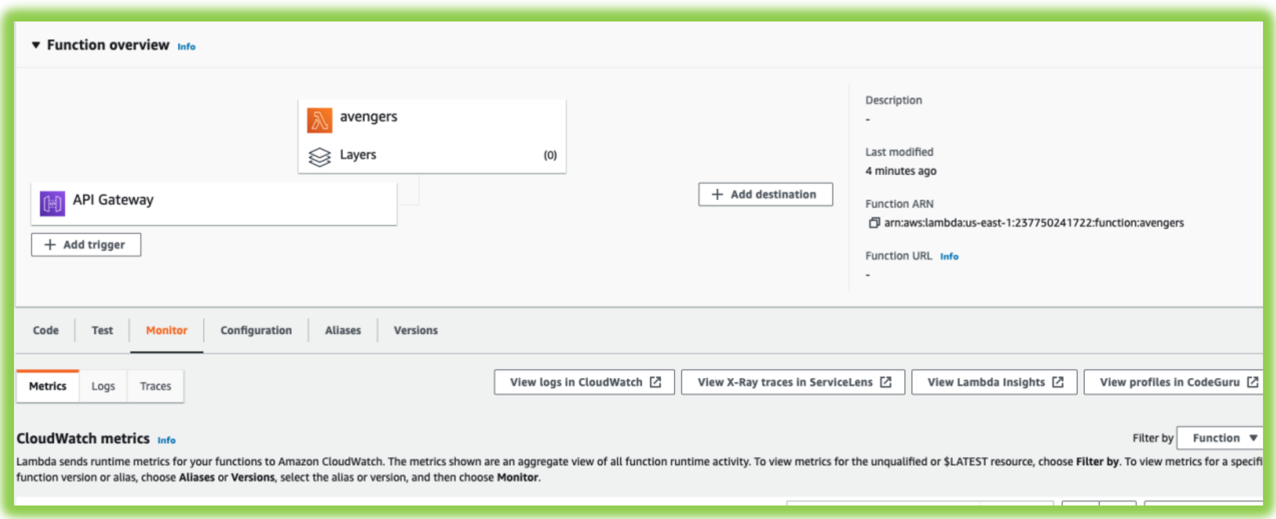
I clicked on the endpoint and opened it in the new tab. I can see the data as below.



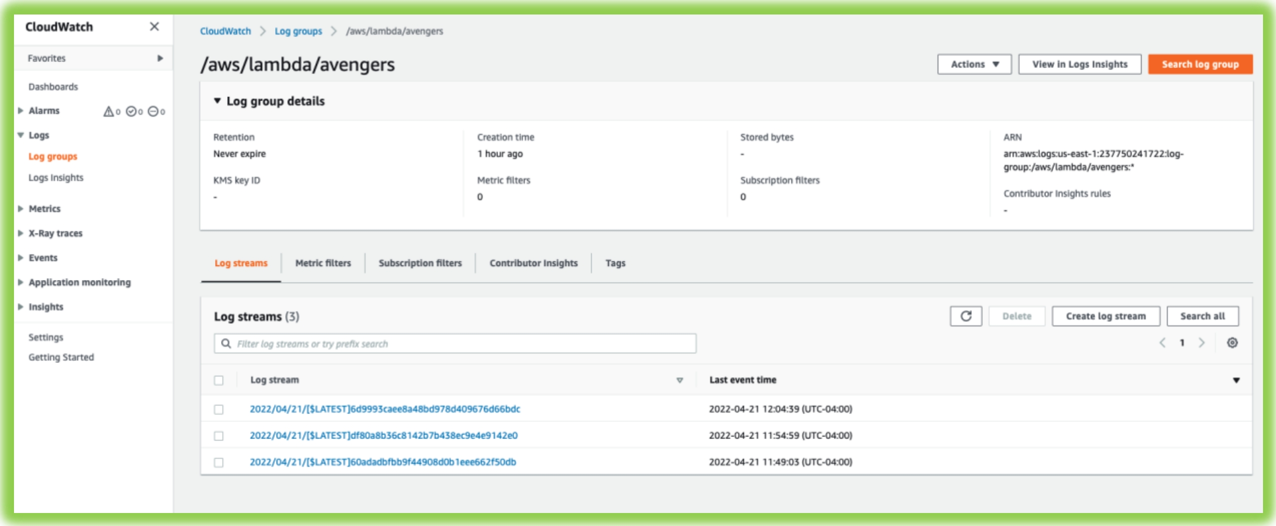
Since the code chooses random question answer pair so when I refreshed the url it showed me a new pair.



In my lambda function, under Monitor tab, I clicked on View logs in CloudWatch:

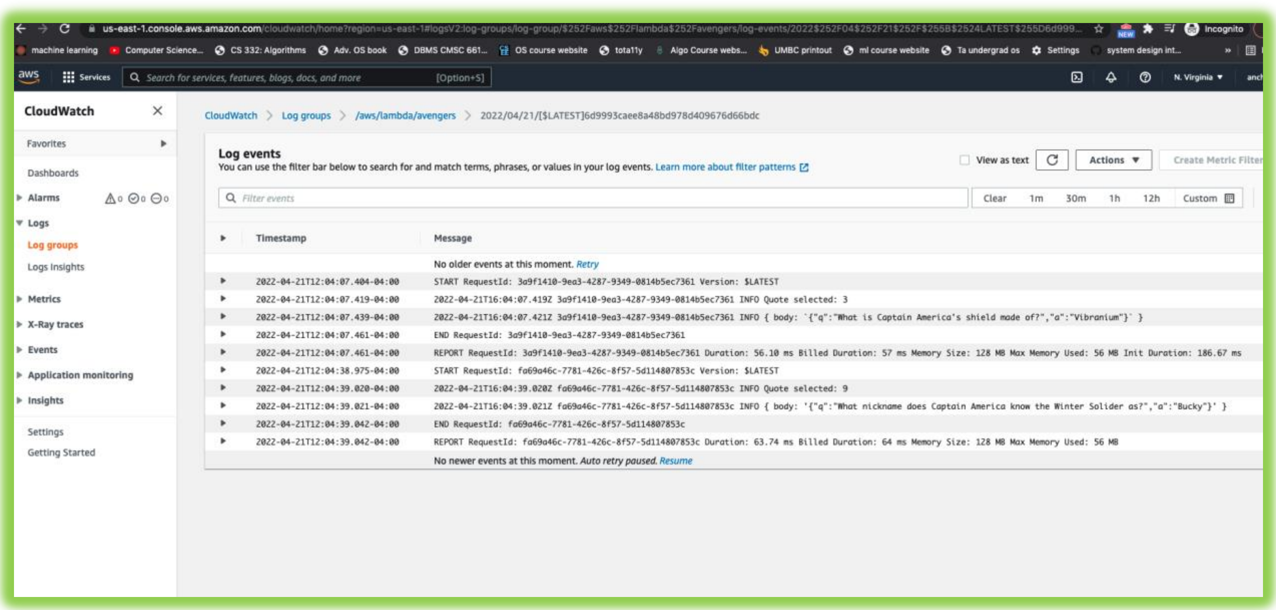


In the CloudWatch I found the following logs:

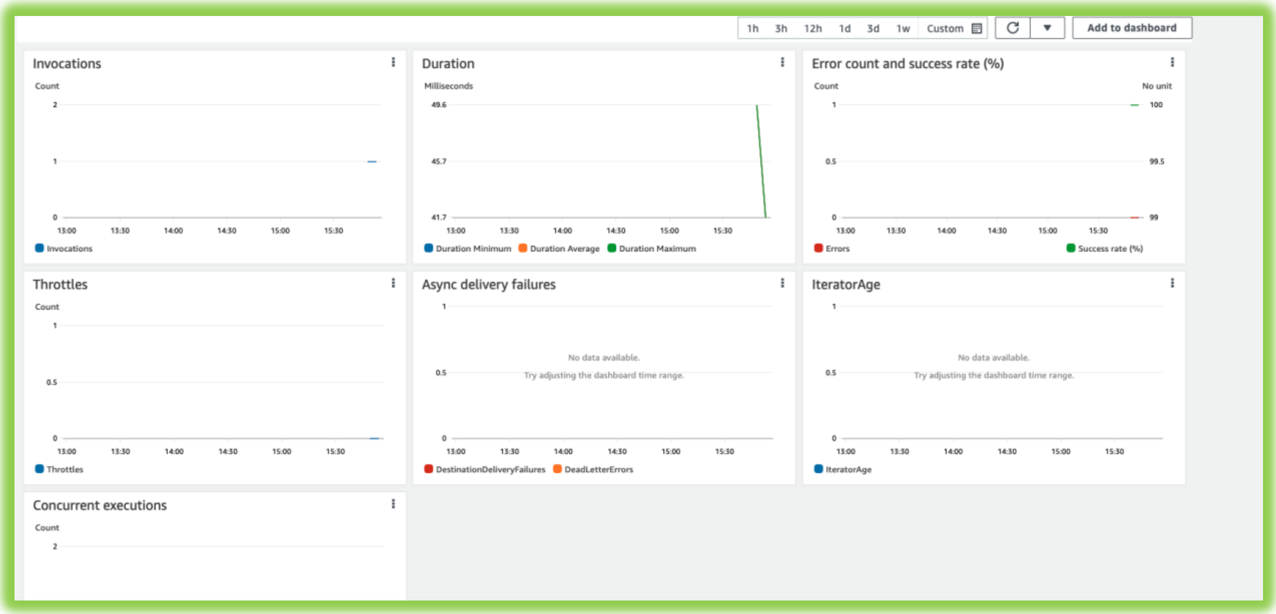


I clicked on the first log result and it displays the following results:

The logs display the message as well as the timestamp. It displays the start request, the response message, request id:



Under the monitor, I can view the metrics for my function as below:



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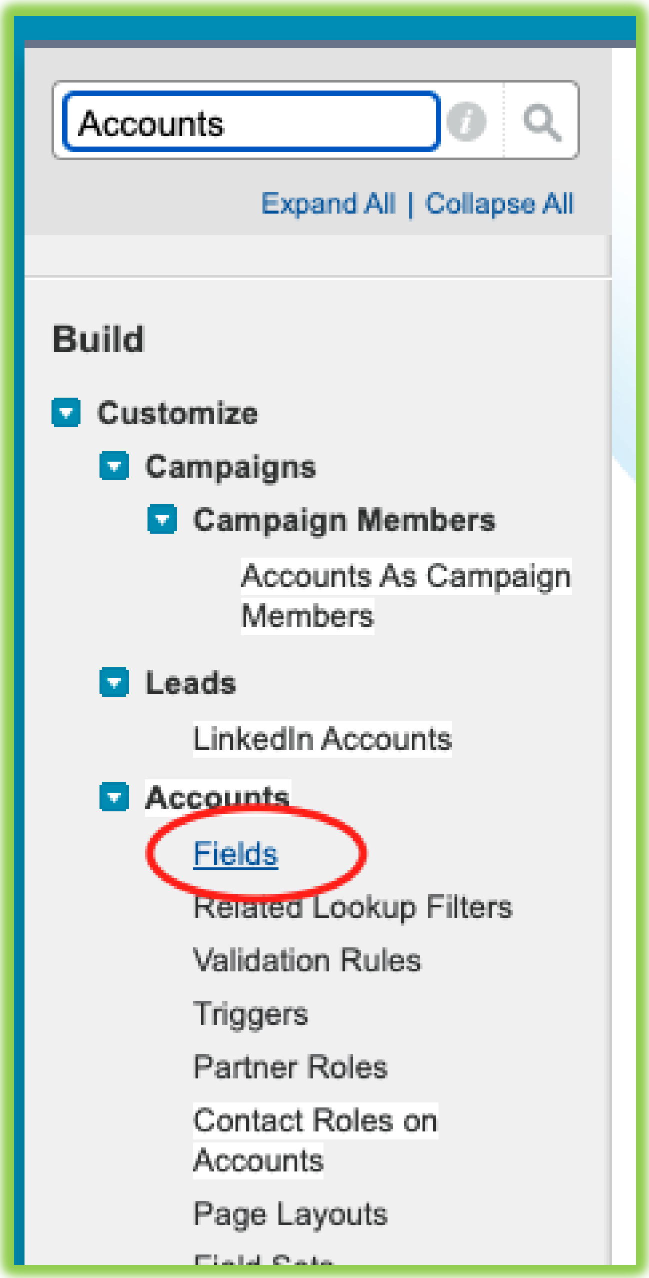
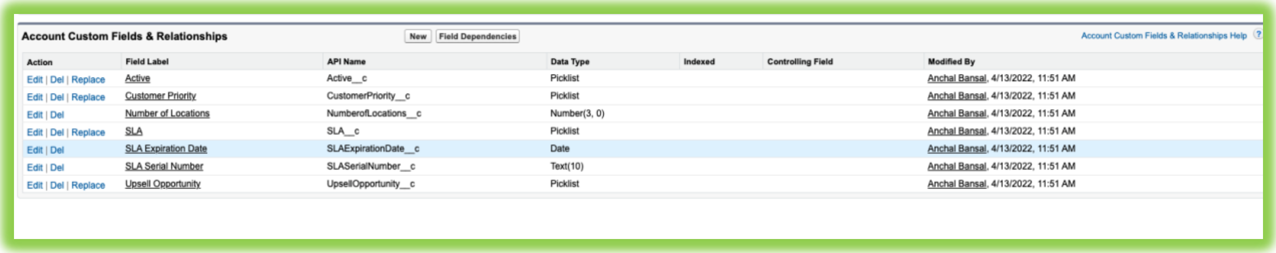
Salesforce:

1) **Creating custom field on Account Object:**

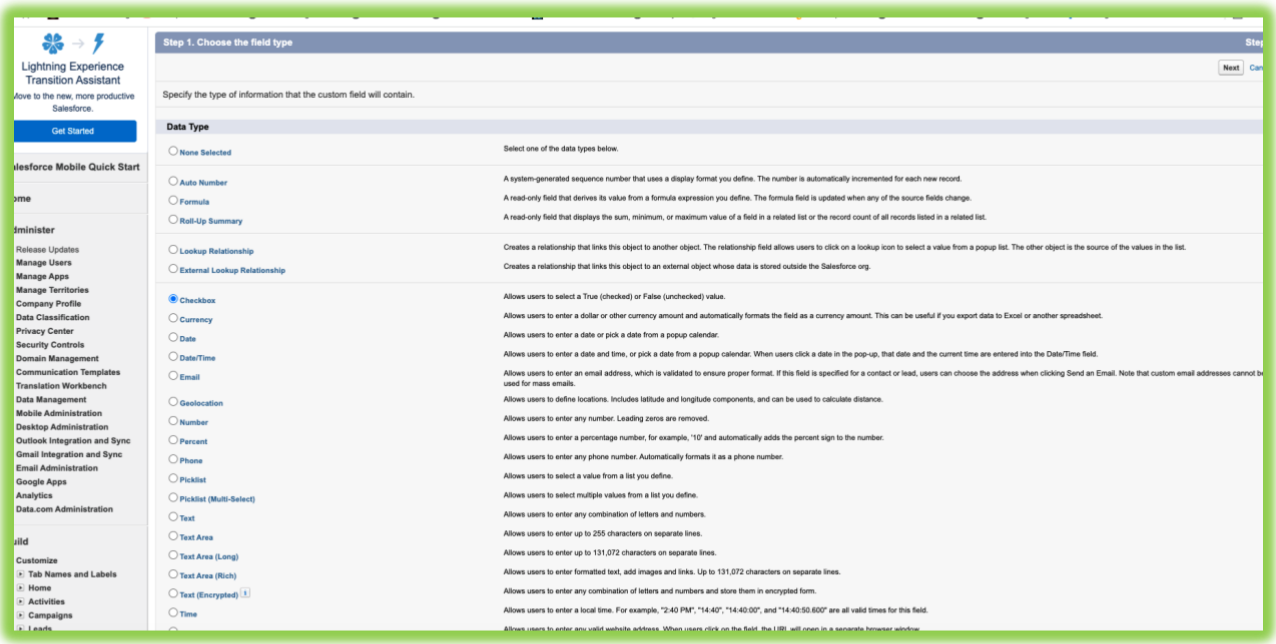
Find fields under accounts in quick find tab and click on it.



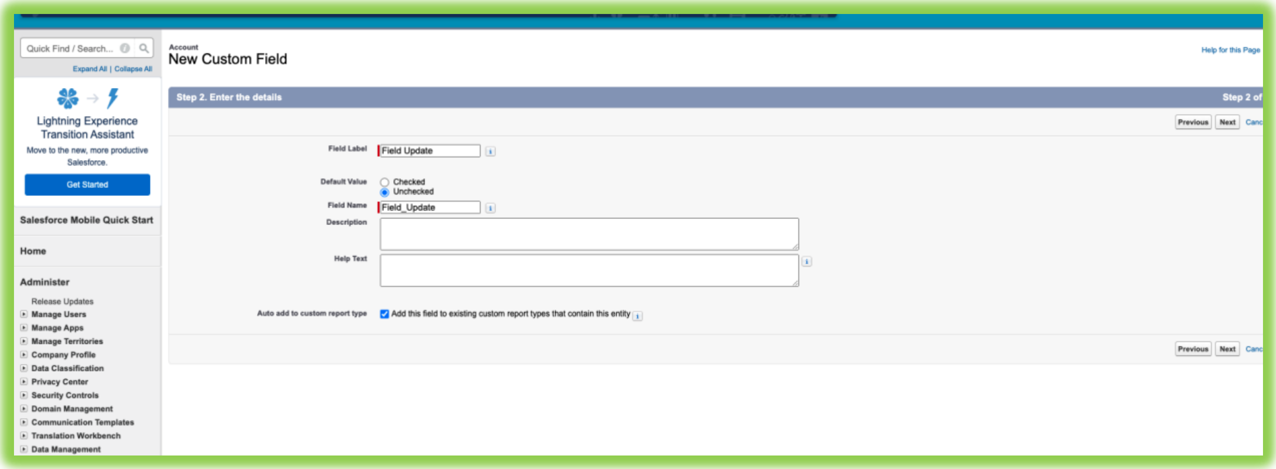
Below shows Account Custom Fields &Relationships and click on New



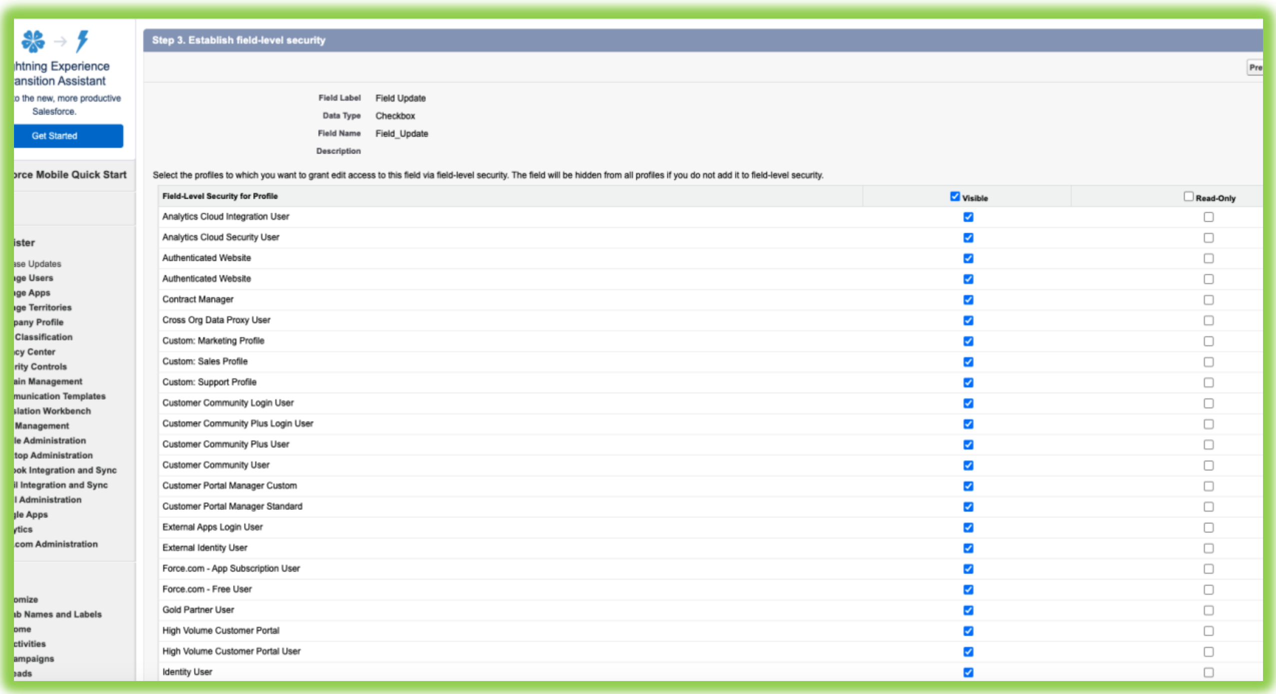
On the next page, I select field type as Checkbox and click on Next:



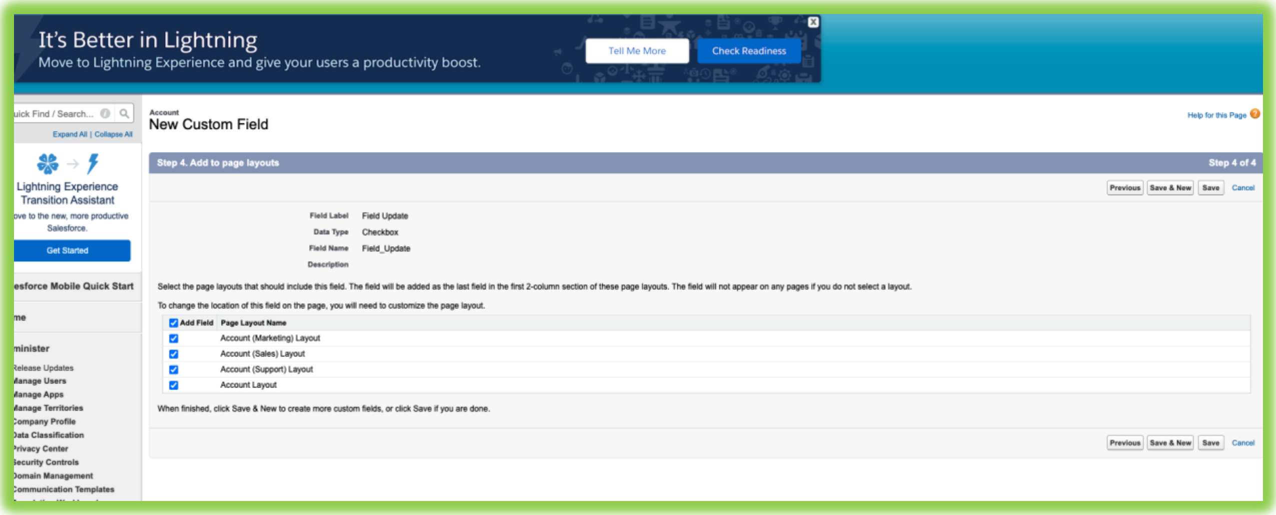
On the next page I enter the Field Label as Field Update, default value as Unchecked and Field Name as Field_Update and click on Next.



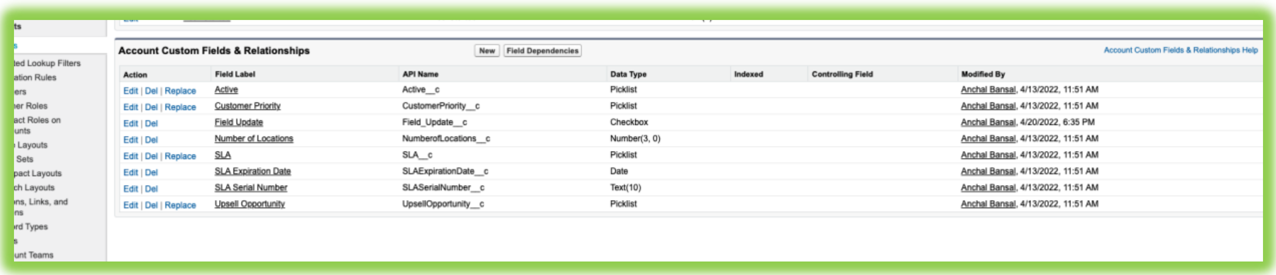
On next page, I check the Visible option and click on next.



On the next Page, I choose all the checkboxes for Add to Page layouts. Click on Save.

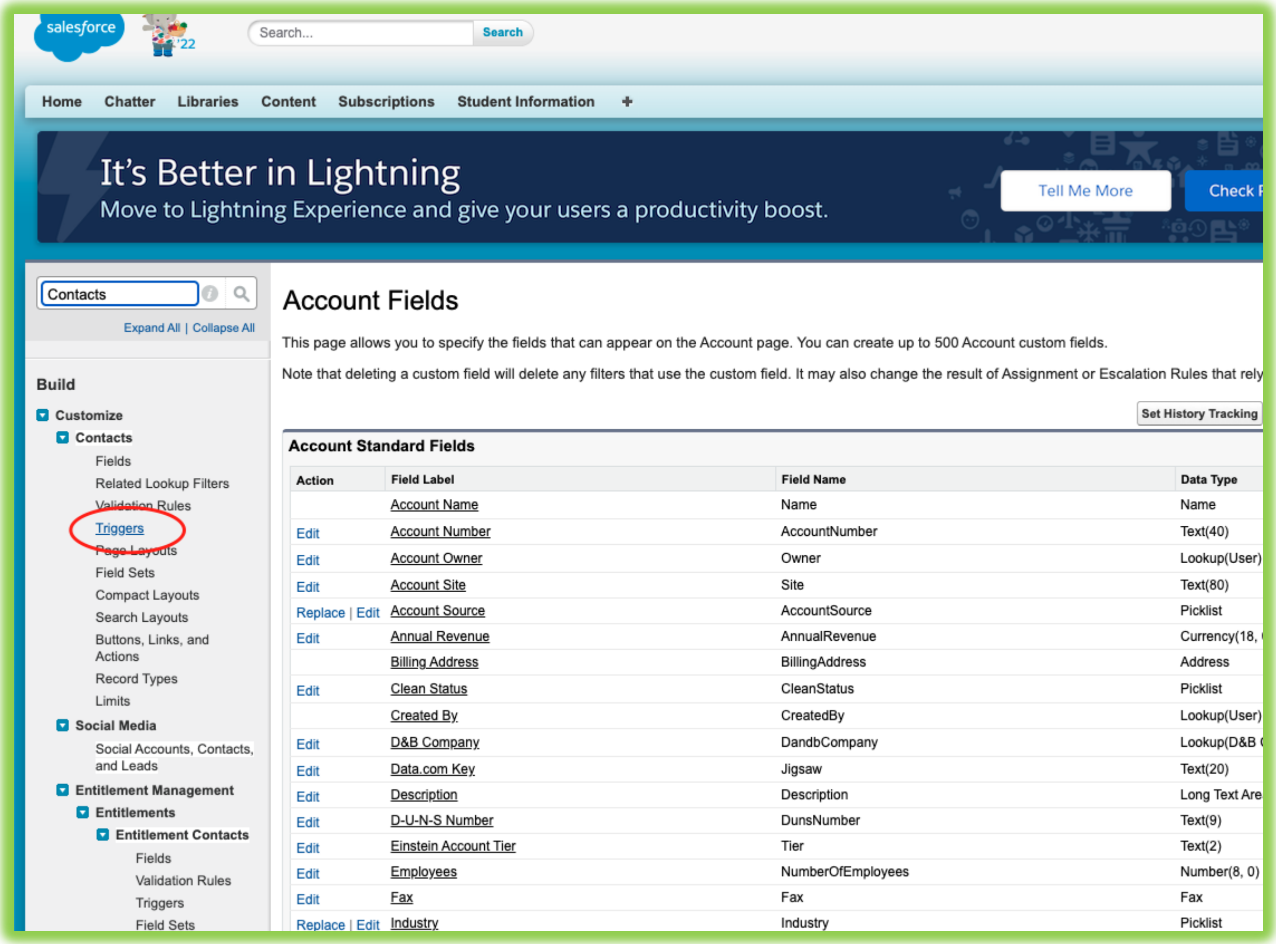


After saving, the newly created custom field can be seen as below:

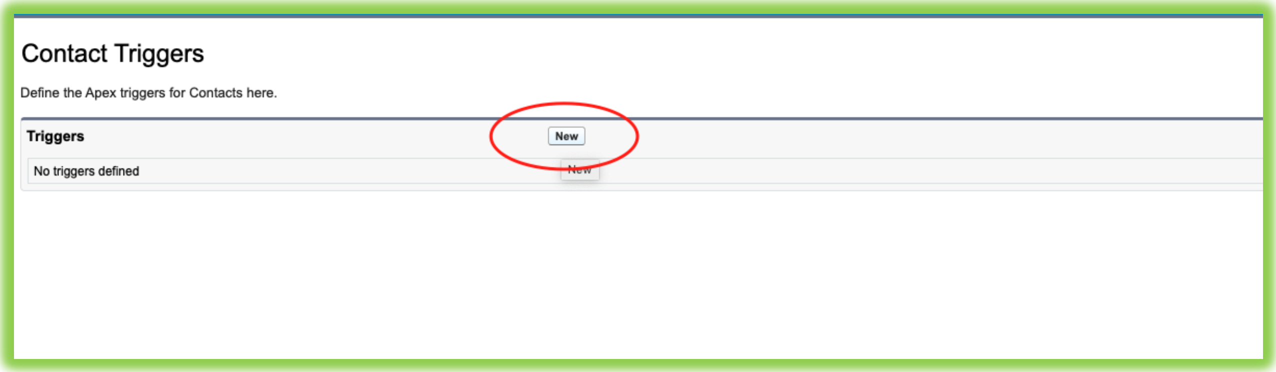


2) Creating Apex Trigger on Contact Object:

In the Quick Find bar, I searched for Contacts and under Contacts, I clicked on Triggers:



Now on the triggers page, I click on New



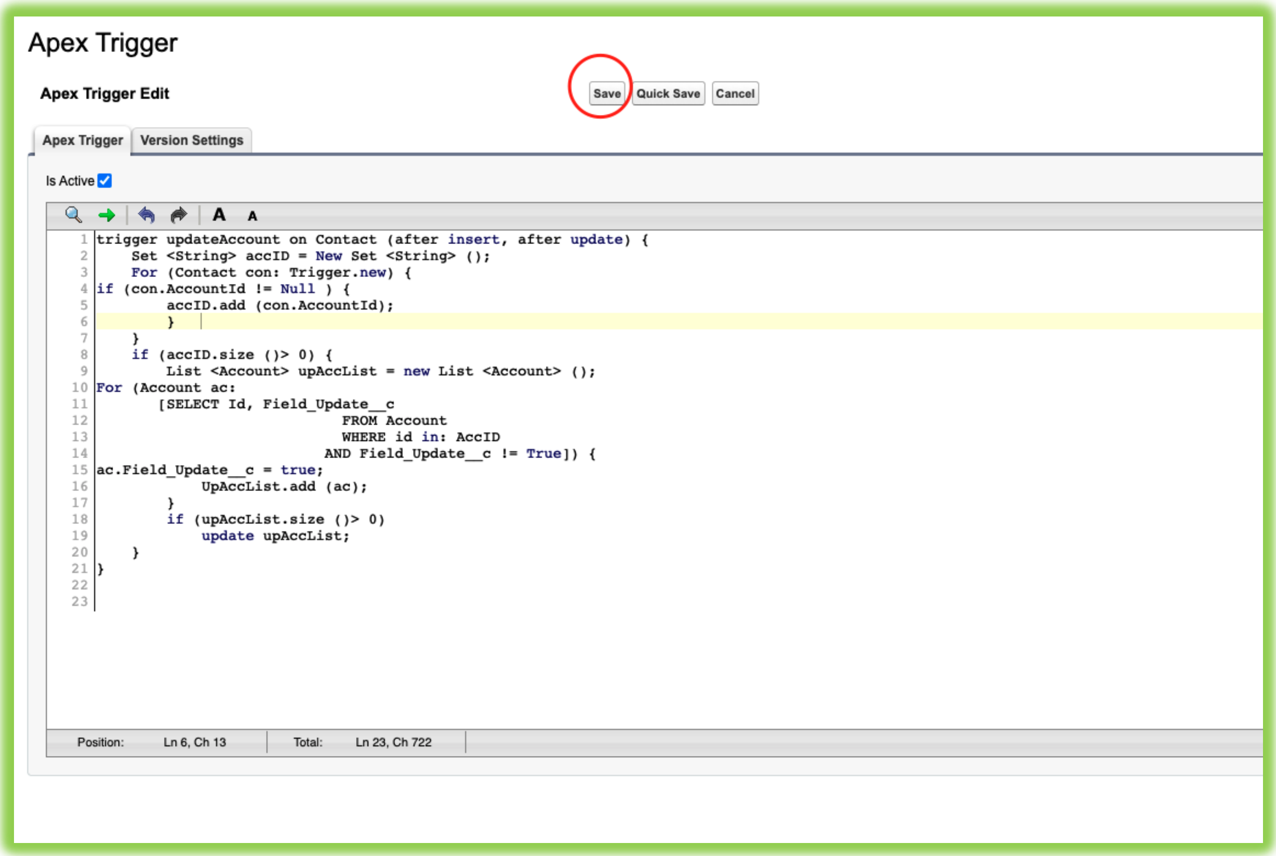
On this page, I enter the following code in console and click on Save:

Code:

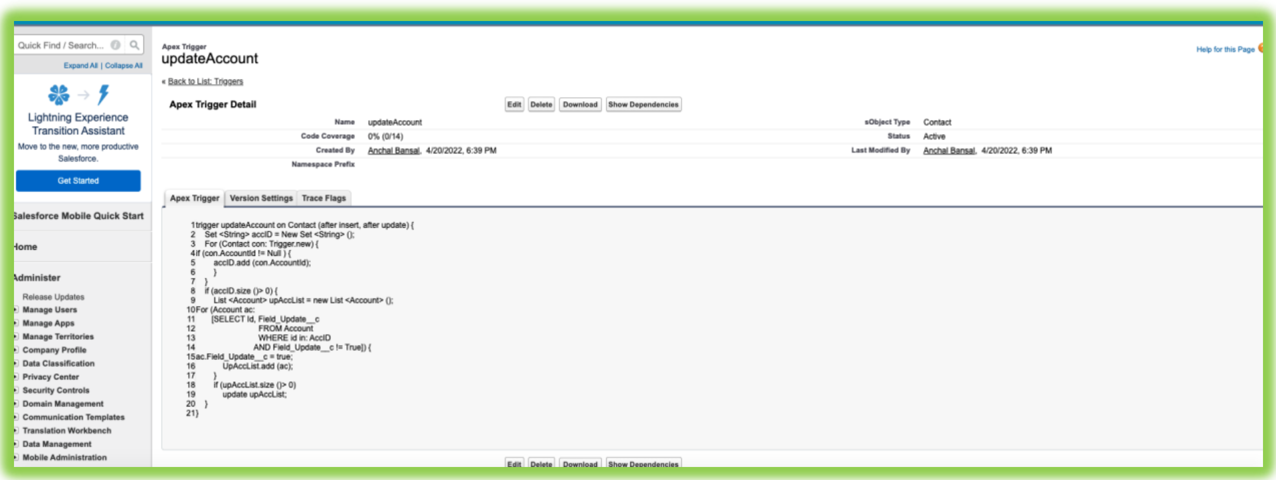
```
trigger updateAccount on Contact (after insert, after update) {
   Set <String> accID = New Set <String> ();
   For (Contact con: Trigger.new) {
if (con.AccountId != Null ) {
      accID.add (con.AccountId);
      }

   }
   if (accID.size ()> 0) {
      List <Account> upAccList = new List <Account> ();
For (Account ac:
     [SELECT Id, Field_Update__c
                     FROM Account
                     WHERE id in: AccID
                   AND Field_Update__c != True]) {
ac.Field_Update__c = true;
         UpAccList.add (ac);
      }
      if (upAccList.size ()> 0)
         update upAccList;
```

```
    }
}
```

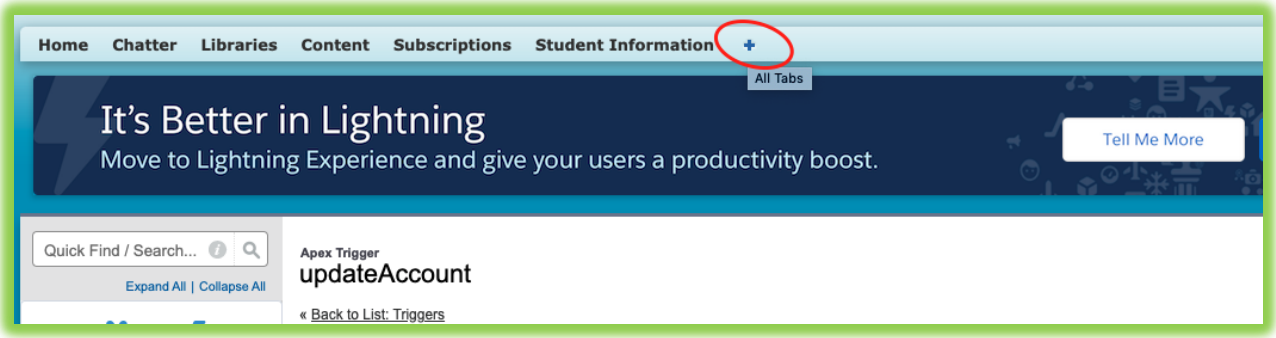


After clicking on Save, I can see the trigger details as below and Status as Active:

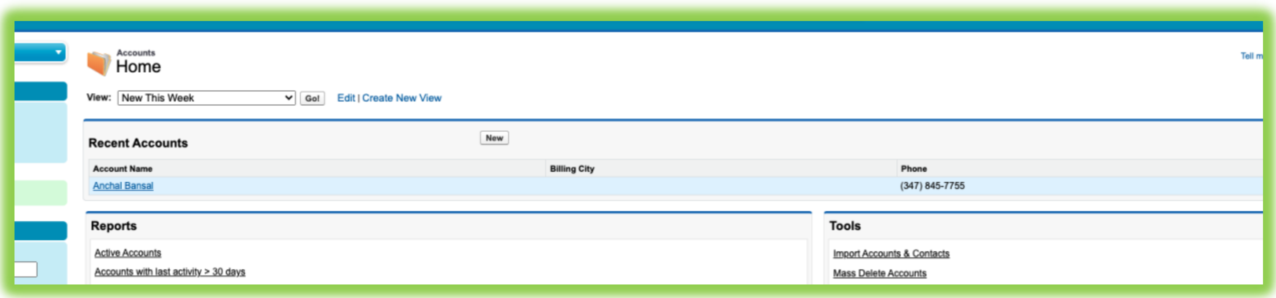


3) Creating a Contact Record:

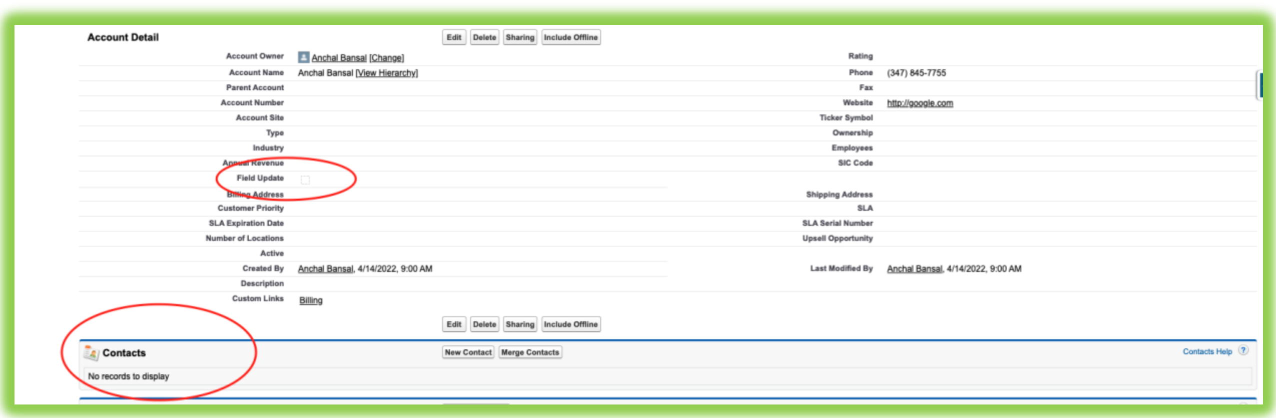
Click on the '+' button and click on Accounts:



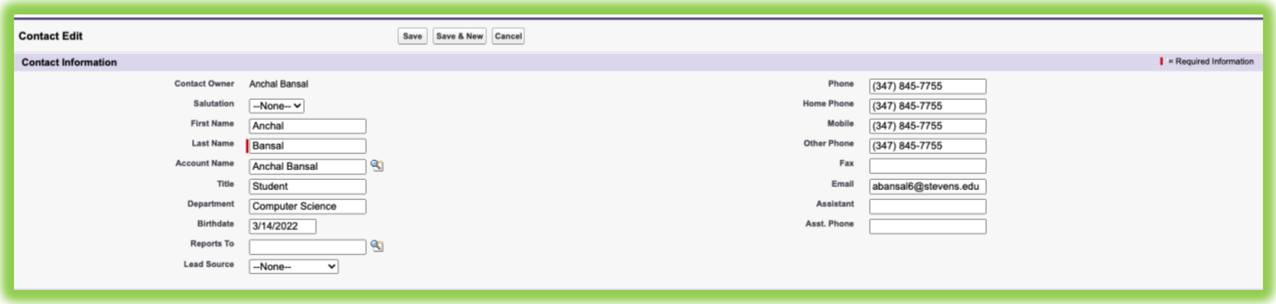
Under the accounts, I can see my account which I created previously with my name.



On clicking my account, I can see Field Update field and Contact object with no records as highlighted below. I click on New Contact in the Contacts:



On clicking on New, I update my contact information as below and Save:



After creating my Contact, I go back to my account and view the details and I can the Field Update as Checked, and My Contact information added in Contacts as shown below: