Hame: Soham Satpute Roll no: 52/015A.

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+	Mere as a donte of will aloot the
+	Here are the several steps to be
+	followed to create REST API using
+	Serverless framework:
+	Ensure you have an Aws account and
	install node is nom and the serverless
1	Framework globally
1	Tournewook gooding
1	Initialize Project:
	create a new project directory and initialize
15	Create a new project directory and initialize new serverless service using a template.
1	Define configuration! Fid Edit the serverless ymal file to specify the service name, provider details, runtime.
	Fid Edit the server less ymal file suntime.
	the service name, provider sejais
	Cuartions!
	Create Lambda For each APT endpoint
	Implement the logic to
	Create Lambda Functions! Implement the logic for each Apt endpoint in a separate file.
	Configure Data store!
1	Configure Data store! Choose a ba database and set permissions Choose a ba database and set permissions
	Choose a ba day file it needed.
	Configure Data sa database and ser choose a ba database and ser recorded.

Deploy and test API!

Use the serverless framework to deploy · Use tools like postman or cool to test the API endpoints. Test APX: Monitor and Updates:

Monitor performance via Aws (loud water) update the API as needed. Q2] Case Study for sonar Qube! > 14 case Study! Quality Analysis of Sonas Objectives:

Create a Sonarqube profile:

Log into sonarqube and navigate quality
orofiles. profiles.

Click create name your profile and customize rules for your desired quality Analyze github code with songreloud.

Sign in to sonarcloud with github and link your repository.

set up a sonar-project-properties file in your report trigger analysis through (IICD. le Install Sonarlint For Java: Install solarht in Intelli] from the plugins Bind your project with sonarqube and songitint will flag issues with your java code and analyse it. Analyze Python Project: Create a new project in sonarqube for eyothon code. Add a sonar-project proporties tile and run analysis using songreganner and check results. Analyze Mode is project! Create a new project in songrable for your Node.)s code. Chéate configure with a sonar-project properties file and execute and analyse using Sonar scanner. This case study demonstrates how to use sonar Qube effectively for code quality analysis across different programming languages and platforms.

-@3 > Implementing ra self-serve intrastructure sy model using terraform an significantly streamli operations with large organisation. Here's a structur approach to achieve this! em 1) Centralized Operations: Address repetitive infrastructive requests from product teams by using terraform. 2 Create Terraform Modules: Develop resignible modules that define stands for deploying and managing infrastructure 3 Empower product Teams! Set op a self-service portal where teams can initiate requests using predefined modules enabling them to manage their infrastructure independently. Integrate terraform cloud: · Connect terraform cloud with & ticketing systems like service Now to automate infrastruc requests. When a team submits a request, terraform can provision the needed resources automatically. FOR EDUCATIONAL USE Suntainer.

Integrate with Ticketing System - Contralize state ma Automate infrastructure requests through ticket Streamline request and approval processes. This approach helps centralize control while - empowering product teams creating a balance agility and governance. -between an adu cti