

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	16 October 2022
TeamID	PNT2022TMID33309
Project Name	News Tracker Application
Maximum Marks	4 Marks

Technical Architecture:

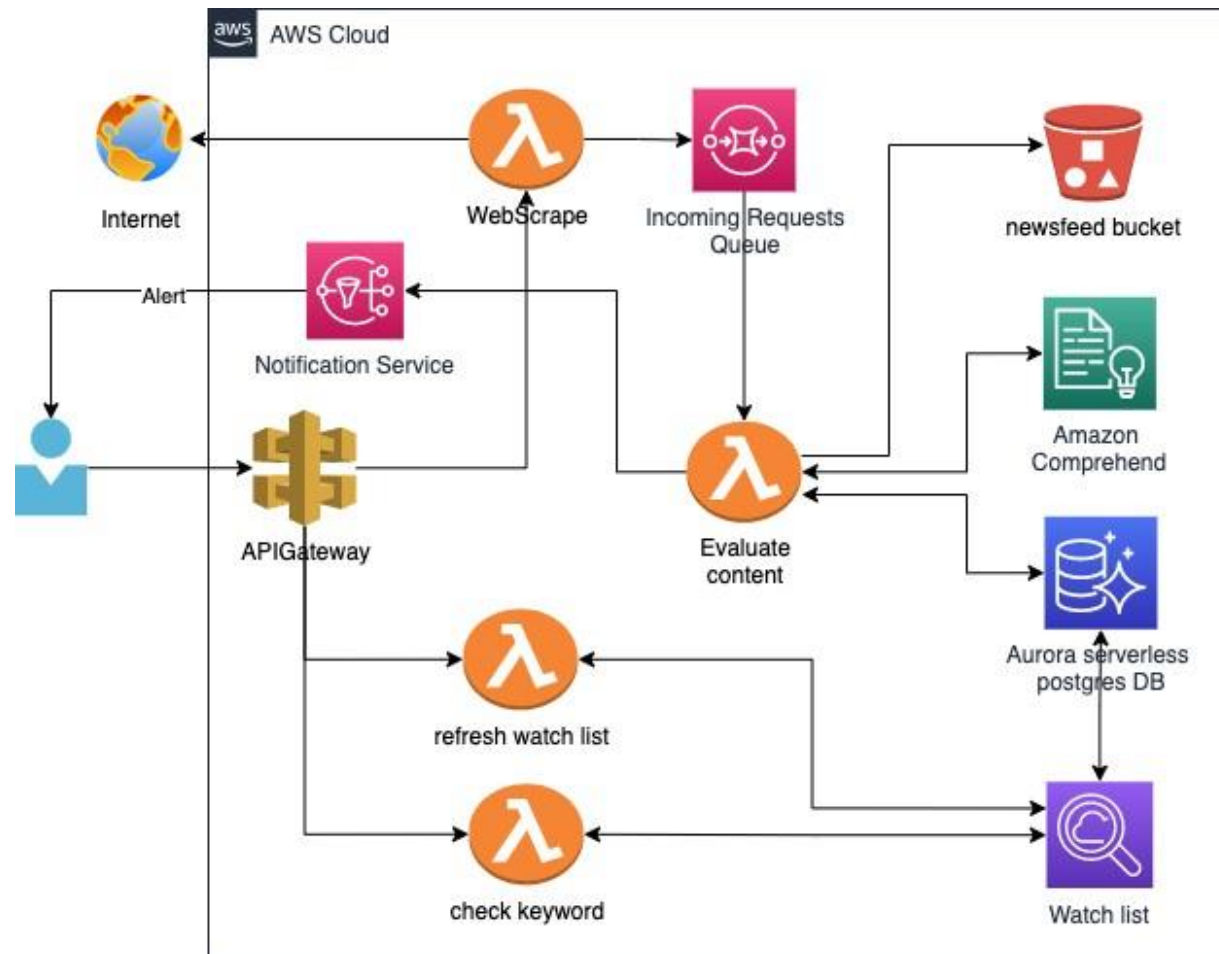


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Client cooperates effortlessly of purpose and most helpful climate with least exertion on client to get greatest exertion.	HTML, CSS, JavaScript
2.	Application Logic-1	This application begins with login page where client join or sign in web application.	Java / Python
3.	Application Logic-2	Client enters individual information to refresh their Record profile where IBM watson stt administration used to switch sound over completely to message that is client can fill their detail by voice help.	IBM Watson STT service
4.	Application Logic-3	Client can see news content in light of dates and where chatbot is utilized there to channel content.	IBM Watson Assistant
5.	Database	Client information gets put away in data set for parallel purposes.	MySQL
6.	Cloud Database	Here Data set Help are utilized in IBM DB2 .Utilizing this clients can get to every one of the information put away in cloud through network from any available gadget.	IBM DB2, IBM Cloudant
7.	File Storage	Clients individual information and last visited news content are get put away in IBM block capacity.	IBM Block Storage
8.	External API-1	Application utilized IBM Climate to get accurate climate report as it is one of the required news content.	IBM Weather API
9.	Infrastructure (Cloud)	Application Sending on Cloud for quicker and adaptable execution over the web.	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Here this application is light weight application utilizing flask (python) as a backend improvement	Flask(Python)
2.	Security Implementations	Application contains client individual data, login credentials, transaction subtleties are safeguarded what's more, kept secret involving information assurance in IBM cloud	IAM in IBM cloud
3.	Scalable Architecture	Here application runs day in and day out as it is versatile where size is everything. So it is utilized to perform web application rapidly	Flask(Python)
4.	Availability	Application works appropriately and will justify prerequisites. It very well may be available whenever	Docker, Kubernetes cluster
5.	Performance	Application trace every request and building blocks efficiently for better performance	Instana