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Using: IAM, DynamoDB, AWS Lambda, Python 3.8

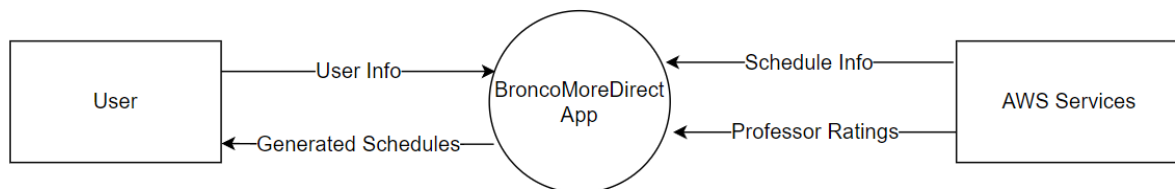
Purpose of Project:

The fundamental goal of the project is to produce a different version of Bronco Direct class scheduler that is more user-friendly and provides ease of access to different subject areas. Not only will it provide quick access to schedules, it will also provide professor ratings with the schedules that are generated to prevent the need of having to search up the professor on their own. It will grant them a brief description and rating of a professor for the desired class, which should make the process of creating a class schedule much shorter and less stressful.

To achieve this we will be using AWS to build a backend consisting of various AWS services. To begin with we already have a front end app, this app will get its data from our AWS project. Listed below are the free-tier AWS services we will be using and a description of how they will be implemented in our project

- API Gateway
 - Allows front end app to make requests to our backend
- Lambda: (*Caching*)
 - This lambda function will store the data we collect from our web scrapers into our DynamoDB database
- Lambda: (Scrapper 1)
 - This lambda function will scrape information from RateMyProfessor
- Lambda: (Scrapper 2)
 - This lambda function will scrape information from schedule.cpp.edu
- DynamoDB
 - We will use a NoSql database to store the information found via our web scrapers

Level 0 DFD:



Level 1 DFD:

