

ITMO 544-444 Mini-Project 3

Objectives

The objectives of this project for **Graduates** are as follows:

1. Learn how to interact with Cloud Based APIs and SDKs
2. Learn to create dashboards to help operations and developer introspection

Outcomes

At the conclusion of this MP you will have successfully built a local application that will create a dashboard that grants introspection to all the processes currently running in your cloud native application.

Background:

This project, MP3, assumes that you have completed all or at least the critical feature set of MP1 and MP2. Create a folder in Github named MP3, and place all necessary code. All code will be delivered via Github with a submission to Blackboard of your Github URL.

Deliverable items

1. Create a dashboard of all of the status' of jobs in the database
 - a. For this you need to create a Read-Replica of your RDS instance and make all reads go to that instance (Use a SQL statement to retrieve this)
 2. Create a dashboard of all of the items in the SQS Queue
 - a. ~~Jobs pending and jobs completed~~ jobs visible, jobs invisible, number of messages sent (Use CloudWatch Metrics to retrieve this)
 3. Create a dashboard of all of the metrics (Cloudwatch - 7) for monitoring CPU usage for your instances ~~(and report the number of instances)~~
 - a. Create a large scale test (multiple large number of images – which I will provide)
 4. Format and align the application with usability in mind
- Include a ReadMe.md with all relevant information to build the application
 - **Due Date:** Saturday December 2nd 11:59 PM (last day of the semester that work can be accepted)

Grading:

- 86 - 100 points – all aspects work as detailed
- 80 - 84 points – implement 3 of the 4 items above
- 70 – 79 points – implement 2 of the 4
- Below 70 1 or none implemented