

Project Name: ExamResultSearchApp

Detail: App is use to process the student exam result for different use cases.

Search result
Store result
Update Result
Delete result

Architecture:

The app should have two microservice:

- 1) StudentResult
- 2) ResultProcessor

The microservice StudentResult expose one Rest Endpoint use to search the result of student based on studentname query parameter

Ex: localhost:8081/getresult/name=studentname (GET) The end point has access only by user authorization

The microservice ResultProcessor expose three Rest Endpoint use to store update and delete exam result as following.

- 1) localhost:8082/storerresult (POST) send student exam result in body data
- 2)localhost:8082/updaterresult/name=studentname (PUT) update the student exam result data send the exam updated marks in body data and student name send through request parameter
- 3)localhost:8082/deleterresult/name=studentname (DELETE) delete the student exam result based on student name

The above all three endpoint should be only access for admin user.

Detail of user access

Users

- 1) user:

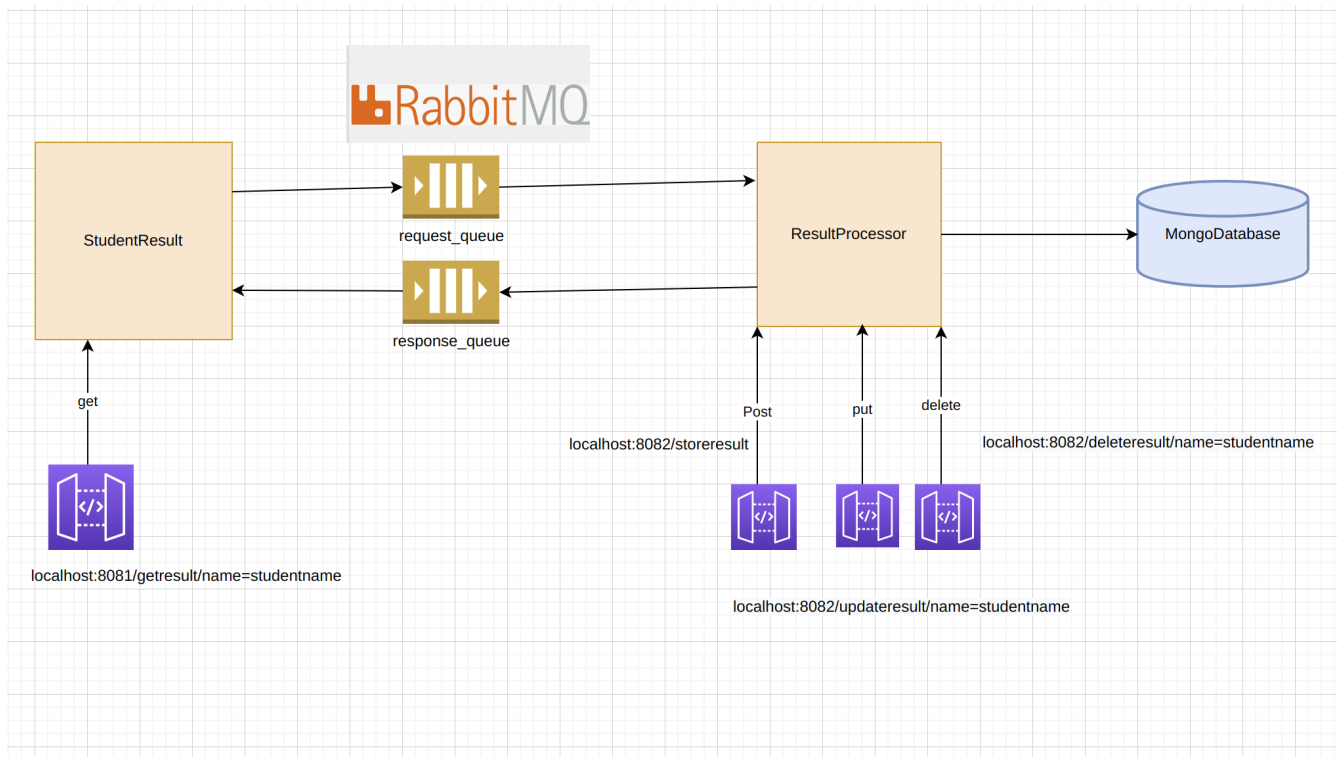
username: student1
password: password123

username: student2
password: password123

- 1) admin:

username: schooladmin1
password: password124

username: schooladmin2
password: password124



Data model for database store:

ExamResultModel:

name: String
 role: String
 schoolName: String
 scienceMarks: Integer
 mathMarks: Integer
 socialScienceMarks: Integer
 artMarks: Integer
 sportMarks: Integer

Post and Put body data should be as above model json.

The Get result should be on json data which should display as a response.

Task to do:

- 1) Create both the project using maven command
- 2) Implement the both springboot microservice with latest library
- 3) Run the Rabbitmq and mongodb in docker container(create docker-compose file for both)

- 5) Create ReadMe file and provide the steps to run this
- 6) Update the curl command in readme file
- 7) Create docker image for both microservice and deploy and run on Azure Virtual machine(The machine which all participants are using)
- 8) Create Presentation and present the project at end on the session.

Based on approach and presentation the evaluation will done