

**CSCI 5410**

**Serverless Data Processing (Summer 2023)**

## MASTER OF APPLIED COMPUTER SCIENCE

Assignment-2 (Part B): Containerized Application

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**GitLab Link :**

**b. Your database should contain only 2 collections. One collection is “Reg” to**

**contain registration data (Name, Password, Email, Location), another collection**

**is “state” to contain user state (online, offline, timestamp etc.) information.**

A screenshot of a computer

Description automatically generated

Figure : Reg collection created on Fire store.

A screenshot of a computer

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Figure : state collection created on fire store.

**C. Code and the required dependencies of Container #1 are responsible for**

**accepting registration details from frontend and store it in backend database.**

**(image 1).**

**Container – 1:**

A screen shot of a computer program

Description automatically generated with low confidence

Figure : Application business logic Code for container -1

* Build docker image and tagged it with specific name before pushing it on artifact registry.

A screenshot of a video game

Description automatically generated with medium confidence

Figure : built docker image and tagged it.

* Docker image pushed using command mentioned in below image.

A screen shot of a computer

Description automatically generated with low confidence

Figure : Docker image pushed on GCP Artifact Registry.

* GCP Artifact Registry shows the pushed image successfully.

A screenshot of a computer

Description automatically generated

Figure : Artifact Registry console GCP.

* Created New Service in Cloud Run to Run the container 1.

A screenshot of a computer

Description automatically generated with medium confidence

Figure : Container-1 Running on Cloud Run service.

* Testing the running container by sending POST request form postman to that container.

A screenshot of a computer

Description automatically generated

Figure : Postman Sending request to container to store the User Data.

* Successfully got data in firestore.

A screenshot of a computer

Description automatically generated

Figure : Container-1 running successfully on GCP and getting all the data in the Firestore.

**Container – 2:**

* Application business logic Code for container -2

A screen shot of a computer program

Description automatically generated with low confidence

Figure : Application business logic Code for container -2.

* Build docker image and tagged it with specific name before pushing it on artifact registry. Docker image pushed using command mentioned in below image.

A picture containing text, software, multimedia software, screenshot

Description automatically generated