Configuration Manual

MSc Research Project
Cloud Computing

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MSc Project Submission Sheet

School of Computing

Student Name:	AKASH KULKARNI
Student ID:	X21138419
Programme:	MSc. Cloud Computing **Year:** 2022-2023
Module:	Research Project
Lecturer:	Shivani Jaiswal
Submission Due Date:	15th December 2022
Project Title:	Asymmetric Enryption and Blockchain based Multi-keyword Encrypted Search
Word Count:	187 **Page Count:** 4

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.

ALL internet material must be referenced in the bibliography section. Students are required to use the Referencing Standard specified in the report template. To use other author's written or electronic work is illegal (plagiarism) and may result in disciplinary action.

Signature: Akash Kulkarni

Date: 14th December 2022

PLEASE READ THE FOLLOWING INSTRUCTIONS AND CHECKLIST

Attach a completed copy of this sheet to each project (including multiple copies)	□
Attach a Moodle submission receipt of the online project submission, to each project (including multiple copies).	□
You must ensure that you retain a HARD COPY of the project, both for your own reference and in case a project is lost or mislaid. It is not sufficient to keep a copy on computer.	□

Assignments that are submitted to the Programme Coordinator Office must be placed into the assignment box located outside the office.

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Signature:	
Date:	
Penalty Applied (if applicable):	

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1   Environment Setup

   i.   Install Golang from: https://go.dev/doc/install
   ii. Make Sure GOPATH is properly setup.
   iii. Install   mongoDB   OR   setup   a   mongoDB   atlas   account:
        https://account.mongodb.com/account/login

2   Code Setup
   i.   Clone code from github OR unzip code folder in your local directory
   ii. Create .env file and copy the contents from env sample file provided
   iii. Once done that create aebmes collection in your mongoDb cloud or local
        a. Set MONGOURI=<> and replace with MONGOURI="" (link from mongoDB
            atlas)
   iv. Run following command "go run main.go" inside your code repository: this will run
        the code on 3000 port in your local machine

3   Run The code:

First install postman or you can run the curl commands directly given below
   i.   For encryption: For now just .txt files only for testing with less size

```
curl --location --request POST 'localhost:3000/encryptFile' \
--form 'fileData=@"/Users/akash/Desktop/sample-settlement.txt"' \
--form 'keywords="settlement,akash"'
```
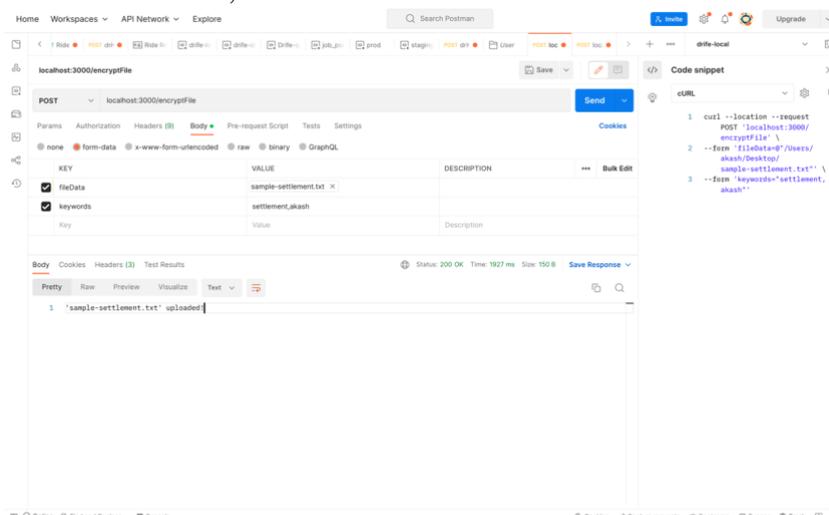
ii. For Decrypting file

```
curl --location --request POST 'localhost:3000/getFile' \
--header 'Content-Type: application/json' \
--data-raw '{
    "keywords":"settlement"
}'
```
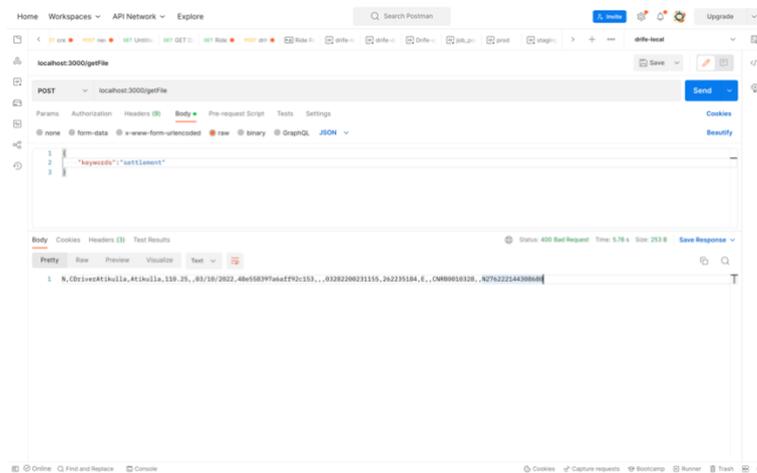

The output of the text will be seen in response of the request. It will be same as of file uploaded.