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## 1. Task Statement

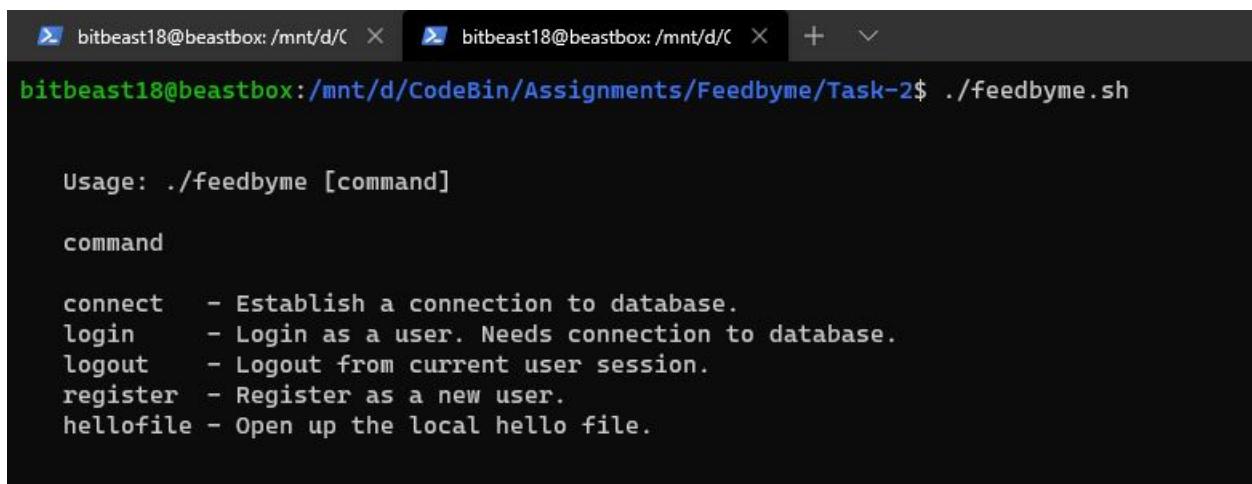
Create a simple login, logout, register, hello file and connect to DB using shell scripting or bash scripting (Only perform in shell or console or terminal). After creating an account, open up a new “hello file”.

## 2. Tech stack

- **Languages:** Bash >= 4.3.
- **DB:** Mongodb >= 4.2
- **Required OS:** Windows WSL/Linux/MacOS/Any environment that supports bash.

## 3. Solution description

- The access to the database is readWrite and open for all public IPs. This is to simplify the process.
- The database is a remote cluster provided as a service (MongoDB as a Service).
- The program uses “mongo shell” for interacting with the remote cluster. It is assumed to exist or can be downloaded along with the project files.
- **The project files can be found at the following github repository**  
<https://github.com/bitbeast18/feedbyme-assignment/tree/master/Task-2>
- The following are some of the screenshots of the script in action.



```
bitbeast18@beastbox:/mnt/d/CodeBin/Assignments/Feedbyme/Task-2$ ./feedbyme.sh

Usage: ./feedbyme [command]

command

connect - Establish a connection to database.
login   - Login as a user. Needs connection to database.
logout  - Logout from current user session.
register - Register as a new user.
hellofile - Open up the local hello file.
```

Usage info

```
bitbeast18@beastbox:/mnt/d/CodeBin/Assignments/Feedbyme/Task-2$ ./feedbyme.sh login
Enter username: harshal
Enter password: harshal

Server output: {
    "_id" : ObjectId("5f2afce1578509a1c9068f76"),
    "username" : "harshal",
    "password" : "harshal"
}

Successfully logged in!
```

Login command

```
bitbeast18@beastbox:/mnt/d/CodeBin/Assignments/Feedbyme/Task-2$ ./feedbyme.sh register
Enter username: ravi
Enter password: ravi

Successfully registered!

Opening hellofile.txt ...
```

Register command

- The rest of the document contains the bash script.

```
#!/bin/bash

MONGOSHELL='mongodb+srv://cluster0.pn5ss.mongodb.net/feedbyme'

function usage(){
    echo -e "\n
Usage: ./feedbyme [command]

    command

    connect      - Establish a connection to the database.
    login        - Login as a user. Needs connection to database.
    logout       - Logout from current user session.
    register     - Register as a new user."
```

```

hellofile - Open up the local hello file.
\n"
}

function login(){
    read -p "Enter username: " USERNAME
    read -p "Enter password: " PASSWORD

    QUERY="db.userData.findOne({'username':'${USERNAME}' ,
'password':'${PASSWORD}'})"
    RES=$( mongoshell/bin/mongo "$MONGOSHELL" -u feedbyme -p feedbyme --quiet
--eval "$QUERY" )

    echo -e "\nServer output: $RES\n"

    if [ -z "$RES" ]; then
        echo "Invalid username or password. Try again!"
    else
        set MONGOUSER="$USERNAME"
        set MONGOPASS="$PASSWORD"

        echo -e "Successfully logged in!\n"
    fi
}

function logout(){
    unset MONGOUSER
    unset MONGOPASS

    echo -e "\nLogged out successfully!\n"
}

function register(){
    read -p "Enter username: " USERNAME
    read -p "Enter password: " PASSWORD

    QUERY="db.userData.insert({'username':'${USERNAME}' ,
'password':'${PASSWORD}'})"

```

```
mongoshell/bin/mongo "$MONGOSHELL" -u feedbyme -p feedbyme --quiet --eval  
"$QUERY" &> /dev/null

set MONGOUSER="$USERNAME"
set MONGOPASS="$PASSWORD"

echo -e "\nSuccessfully registered!\n"
hellofile
}

function hellofile(){
    echo -e "\nOpening hellofile.txt...\n"
    vi hellofile.txt
}

function connect(){
    if ! command -v "./mongoshell/bin/mongo" &> /dev/null; then
        echo -e "\nConnection request failed!\n"
        echo -e "Reason: Mongo is not installed on your system!\n"
    else
        echo -e "\nConnection to database successful!\n"
    fi
}

if [ $# = 0 ]; then
    usage
elif [ $1 = "login" ]; then
    login
elif [ $1 = "logout" ]; then
    logout
elif [ $1 = "register" ]; then
    register
elif [ $1 = "hellofile" ]; then
    hellofile
elif [ $1 = "connect" ]; then
    connect
else
    echo -e "\nInvalid Argument!"
```

```
usage  
fi
```