SafeText (AES Implementation)

UID: 185062 Roll no: 46

Name: Shantanu Tripathi

Constraints

- 1. Title of message has to be unique
- 2. password shoud be between 3-15 characters
- 3. Using Salt and IV for encryption instead of plain aes algorithm
- 4. Password should not be stored in database
- 5. None of the fields should be blank while saving message
- 6. User need to enter message title and message password to view his actual message

Java files:

- 1. Home.java: This is the main file from where the execution begin(it contains the main function)
- 2. AddMessage.java: This module allows user to enter Title , Message and Password of that message
- 3. ShowMessage.java: This modules enable user to vie his secret message by entering its title and password
- 4. Databse.java: This class contains a methos getConn(); that return the database connection object
- 5. aesUtils.java: This class has the actual code for encryption and decryption of the text

To run this application successfuly in your system run the following SQL command

```
create database SafeText;
use SafeText;
create table msg (
    msgID int primary key not null auto_increment,
    message varchar(1000),
    iv varchar(100),
    salt varchar(300),
    msgTitle varchar(50)
);
```

Outputs:

Home.java



AddMessage.java



Safe Text: Add Message —

Title: First Message

Message: Hello my name is shantan u tripathi and I love Cycling

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Password: ...

Password should be between 3-15 characters

Save Back

When password constrain fails



When everything is correct message gets saved



When Title constraint fails

ShowMessage.java





When there's no message with the given title

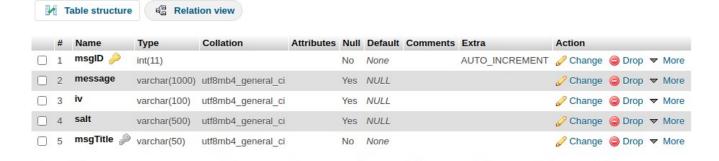
When title is correct but password is wrong



All constraints satisfied

Database – SafeText

Table -- msg



Data inside the table

