```
IOU Database:
Work Log 10/28/24 10:30PM
Created mySql database for BBA:
CREATE DATABASE bba db;
bba db;
Created lou database table
CREATE TABLE IOU (
  iou id INT AUTO INCREMENT PRIMARY KEY,
  lender id INT,
  borrower id INT,
  amount DECIMAL(10, 2) NOT NULL,
  status ENUM('pending', 'paid') DEFAULT 'pending',
  due date DATE.
  FOREIGN KEY (lender id) REFERENCES Users(user id),
  FOREIGN KEY (borrower_id) REFERENCES Users(user_id)
);
Added a database connection to Java Code:
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
. . . . .
public class DatabaseConnection {
  private static final String URL = "jdbc:mysql://localhost:3306/iou_db";
  private static final String USER = "your username";
  private static final String PASSWORD = "your password";
  public static Connection getConnection() throws SQLException {
    return DriverManager.getConnection(URL, USER, PASSWORD);
  }
}
Created a username and pw for the database with certain privileges and verified
CREATE USER 'publicUser'@'localhost' IDENTIFIED BY 'BasicBank0327';
GRANT SELECT, INSERT, UPDATE, DELETE ON new database name.* TO
'publicUser'@'localhost':
FLUSH PRIVILEGES;
SHOW GRANTS FOR 'publicUser'@'localhost';
Note: had to go back into settings with navigator-users-publicUser-manually change privileges
for bba_db only
```

Created a bbaDatabase file to connect to the database

```
User Login UI:
Work log 10/29/2024 7:45
```

Created a User login UI called UserGUI.java

```
Added a User database table to mysql
CREATE TABLE Users (
   user_id INT AUTO_INCREMENT PRIMARY KEY,
   username VARCHAR(50) NOT NULL,
   email VARCHAR(100),
   balance DECIMAL(10, 2) DEFAULT 0.00
);
Used Auto Incriminate:
ALTER TABLE users AUTO_INCREMENT = 1;
```

Attempting to connect to database through code

Created a User Registration file

10/30/2024

Created a readme to add a .jar file to connect to the database

Connected to database through testing and username is registering and login is successful

Updated Github code

Created a readme for use when attempting to piece together the current state of things