Deliverable #4 - Testing Document

Application: Arcade Hoops

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createUser(String username, String password)
atest1()
- Test: create user with username Kameron, password dog
- Expected output: nothing

atest2()
- Test: create user with username Lebron, password James
- Expected output: nothing

atest3()
- Test: create user with username Lebron, password J
- Expected output: throws an exception

attemptLogin(String username, String password)
btest1()
- Test: attempt login on username Kameron, password do
- Expected output: false

btest2()
- Test: attempt login on username A, password B
- Expected output: false

btest3()
- Test: attempt login on username Kameron, password dog
- Expected output: true

addScore(String username, int score) and getHighScores()
ctest1()
- Test: add 10 scores from user Kameron
- Expected output (calling getHighScores()): all 10 of those scores

ctest2()
- Test: add 10 more scores from Lebron
- Expected output: the 10 greatest of all scores added

ctest3()
- Test: add 10 scores from Kameron
- Expected output: the 10 greatest of all scores added

atest1()
btest1()
atest2()

```
atest3()
btest1()
btest2()
ctest1()
ctest2()
ctest3()
```

Code:

```java
import java.util.ArrayList;

public class Tests {

    private static void atest1()
    {
        Database.createUser("Kameron", "dog");
    }
    private static void atest2()
    {
        Database.createUser("Lebron", "James");
    }
    private static void atest3()
    {
        try
        {
            Database.createUser("Lebron", "James");
            System.out.println("Failed atest3");
        }
        catch (Exception e)
        {
            System.out.println("Passed atest3");
        }
    }
    private static void btest1()
    {
        boolean flag = Database.attemptLogin("Kameron", "do");
        if (flag)
        {
            System.out.println("Failed btest1");
        }
        else
        {
            System.out.println("Passed btest1");
        }
    }
    private static void btest2()
    {
        boolean flag = Database.attemptLogin("A", "B");
        if (flag)
        {
            System.out.println("Failed btest2");
        }
        else
        {
            System.out.println("Passed btest2");
        }
    }
    private static void btest3()
    {
        boolean flag = Database.attemptLogin("Kameron", "dog");
        if (!flag)
        {
            System.out.println("Failed btest3");
        }
        else
        {
            System.out.println("Passed btest3");
        }
    }
    private static void ctest1()
```

```java
private static void ctest1()
{
    for (int i = 1; i <= 10; i++)
    {
        Database.addScore("Kameron", i);
    }
    System.out.println("\nctest1 scores:");
    ArrayList<Score> scores = Database.getHighScores();
    for (Score i : scores)
    {
        System.out.println(i.getName() + " " + i.getScore());
    }
}
private static void ctest2()
{
    for (int i = 5; i <= 15; i++)
    {
        Database.addScore("Lebron", i);
    }
    System.out.println("\nctest2 scores:");
    ArrayList<Score> scores = Database.getHighScores();
    for (Score i : scores)
    {
        System.out.println(i.getName() + " " + i.getScore());
    }
}

private static void ctest3()
{
    for (int i = 100; i <= 110; i++)
    {
        Database.addScore("Kameron", i);
    }
    System.out.println("\nctest3 scores:");
    ArrayList<Score> scores = Database.getHighScores();
    for (Score i : scores)
    {
        System.out.println(i.getName() + " " + i.getScore());
    }
}

public static void main(String[] args)
{
    atest1();
    btest1();
    atest2();
    atest3();
    System.out.println("Users after atest3");
    Database.printUserTable();
    btest1();
    btest2();
    ctest1();
    ctest2();
    ctest3();

}
```