CS493

Regis University Senior Capstone

Presentation of DataFace

handout

Intructor: Mr. Allan Rossi

Author: Mr. Jason N Mansfield

The Object Based Study Application

August 15, 2013

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1 A quick review about the concepts which are forming the DataFace application

To begin I would like to ask you to take a look at my project on the GITHUB page here: DataFace wiki The below is an example of a constructor. DataFace uses two constructors: ConstructorOne and ConstructorTwo.

```java
public Bicycle(int startCadence, int startSpeed, int startGear) {
gear = startGear;
cadence = startCadence;
speed = startSpeed;
}
```

Therefore, to create a new Bicycle:

```java
Bicycle myBike = new Bicycle(30, 0, 8);
```

2 This is a quick review of the portions of the Android API used in this project

The following API Items may be covered:

- Activities (*Activity* 2013)

- Views (*View* 2013)

- Layouts (*Layouts* 2013; *R* 2013)

- Intents (*Intent* 2013)

- ListView (*ListView* 2013)

Where is Main()? AH HA! Android apps have NO Main function, just a bunch of Activities! Instead Activities are stacked and play off of each other.

3 Review of the SQLite3 database on android

- SQLite3 (*Saving Data in SQL Databases* 2013)

- android.database.sqlite (*android.database.sqlite* 2013)

- SimpleCursorAdapter (*SimpleCursorAdapter* 2013)

I will try to demonstraight the two SQLite databases and walk through the various portions of the code to show its effects on the ListView.

4 Some important point to look for

Here are some points to look for which will help put all these pieces together:

- Activities have lifecycles with three states.
  1. Resumed: in the foreground
  2. Paused: The current activity is coved by another partially in a transparent state.
  3. Stopped: Activity is in the background and no longer visible.

- Intents launch Activities.

- Bundles pass data between Activities.

- The SimpleCursorAdapter is a specialized adapter that uses the database cursor to map columns in a TextView or ImageView.

- The latest DataFace apk can be found here: DataFace-release-unsigned

5 A walk through user input

The following is a Walkabout user input:

1. GetUserTextInputOne gets user input with 2 * EditText and a Button.

2. ConstructorOne is called by GetUserTextInput and two strings are sent to the DataBaseOne

3. DataBaseOne adds the two strings to the KEY_OBNAME and KEY_CONTENT or objectone and contentone in the databaseone table tableone.

For now all data is viewed by the use of the SimpleCursorAdapter passing all the columns to a ListView. There is a second database which hold the second table, similar queries are made with some small differences.

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