

## 모바일 프로그래밍 실습 보고서

|      |                    |    |                |
|------|--------------------|----|----------------|
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| 순서   | 19                 | 날짜 | 2018.06.05 화요일 |
| 강의자료 | 11 - Firebase      |    |                |
| 주제   | 파이어베이스 데이터베이스 사용하기 |    |                |

### 소스코드

java 소스코드 : MainActivity.class

```
public class MainActivity extends AppCompatActivity {
    EditText pname;
    EditText pquantity;
    EditText id;

    DatabaseReference rDB; // 데이터베이스 레퍼런스 객체

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        init();
    }

    public void init() {
        id = (EditText) findViewById(R.id._id);
        pname = (EditText) findViewById(R.id.productname);
        pquantity = (EditText) findViewById(R.id.quantity);

        rDB = FirebaseDatabase.getInstance().getReference("Products/items");
        // Products라는 DB 아래에 items라는 테이블을 생성한다.
        // 이 테이블을 참조하기 위한 객체로 rDB를 만든다.
    }
}
```

```

public void newProduct(View view) {
    Product items = new Product(id.getText().toString(),
        pname.getText().toString(),
        Integer.parseInt(pquantity.getText().toString()));
    rDB.child(id.getText().toString()).setValue(items);
    id.setText("");
    pquantity.setText("");
    pname.setText("");

    Toast.makeText(this, "DB INSERT SUCCESS", Toast.LENGTH_SHORT).show();
}

public void deleteProduct(View view) {
    rDB.child(id.getText().toString()).removeValue();
}

public void findProduct(View view) {
}

public void updateProduct(View view) {
    rDB.child(id.getText().toString()).child("_quantity")
        .setValue(Integer.parseInt(pquantity.getText().toString()));
}
}

```

### Layout : activity\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity" android:padding="20dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="ID : " />
```

```
<EditText
    android:id="@+id/_id"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="NAME : " />
```

```
<EditText
    android:id="@+id/productname"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="QUANTITY : " />
```

```
<EditText
    android:id="@+id/quantity"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />
```

```
</LinearLayout>

<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:onClick="findProduct"
    android:text="FIND"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="10dp"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center">

    <Button
        android:layout_width="0dp"
        android:layout_weight="1"
        android:layout_height="wrap_content"
        android:onClick="newProduct"
        android:text="INSERT" />

    <Button
        android:layout_width="0dp"
        android:layout_weight="1"
        android:layout_height="wrap_content"
        android:onClick="deleteProduct"
        android:text="DELETE"
        android:paddingLeft="15dp"
        android:paddingRight="15dp"/>

    <Button
        android:layout_width="0dp"
        android:layout_weight="1"
        android:layout_height="wrap_content"
        android:onClick="updateProduct"
        android:text="UPDATE" />

</LinearLayout>
</LinearLayout>
```

## 실행 결과

20180605

ID : 1

NAME : soyoungpark

QUANTITY : 24

FIND

INSERT DELETE UPDATE

20180605

ID : \_\_\_\_\_

NAME : \_\_\_\_\_

QUANTITY : \_\_\_\_\_

FIND

INSERT DELETE UPDATE

DB INSERT SUCCESS

mobileprogramming-46b6e

