

조별 과제 프로젝트	첫 응용 프로그램 작성하기
1. 안드로이드 프로젝트 생성	회원 관리 앱
2. 화면 디자인 및 편집(.xml)	<p>메인 액티비티</p> <pre> 1 <?xml version="1.0" encoding="utf-8"?> 2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" 3 xmlns:app="http://schemas.android.com/apk/res-auto" 4 xmlns:tools="http://schemas.android.com/tools" 5 android:layout_width="match_parent" 6 android:layout_height="match_parent" 7 tools:context=".MainActivity" 8 android:gravity="center" 9 android:orientation="vertical"> 10 11 <TextView 12 android:layout_width="wrap_content" 13 android:layout_height="wrap_content" 14 android:text="안녕하세요!" 15 android:id="@+id/TextViewSayHello" 16 android:textSize="25dp" 17 android:layout_marginBottom="80dp"/> 18 19 <LinearLayout 20 android:layout_width="match_parent" 21 android:layout_height="wrap_content" 22 android:orientation="horizontal" 23 android:layout_marginBottom="150dp" 24 android:gravity="center"> 25 <TextView 26 android:layout_width="wrap_content" 27 android:layout_height="wrap_content" 28 android:text="현재 회원 수: " /> 29 <TextView 30 android:layout_width="wrap_content" 31 android:layout_height="wrap_content" 32 android:text="0" 33 android:id="@+id/TextViewHowManyPeople" /> 34 <TextView 35 android:layout_width="wrap_content" 36 android:layout_height="wrap_content" 37 android:text="명" /> 38 </LinearLayout> 39 40 <LinearLayout 41 android:layout_width="match_parent" 42 android:layout_height="wrap_content" 43 android:orientation="horizontal" 44 android:gravity="center"> 45 <Button 46 android:layout_width="wrap_content" 47 android:layout_height="wrap_content" 48 android:text="회원 추가" 49 android:layout_margin="10dp" 50 android:id="@+id/ButtonInputInfo" /> 51 52 <Button 53 android:layout_width="wrap_content" 54 android:layout_height="wrap_content" 55 android:text="회원 조회" 56 android:layout_margin="10dp" 57 android:id="@+id/ButtonSearchInfo" /> 58 </LinearLayout> 59 </LinearLayout> </pre>

회원 추가 액티비티

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:orientation="vertical"
4      android:layout_width="match_parent"
5      android:layout_height="match_parent"
6      android:padding="10dp" >
7
8
9      <LinearLayout
10         android:layout_width="match_parent"
11         android:layout_height="wrap_content"
12         android:orientation="horizontal"
13         android:layout_margin="10dp" >
14
15             <ImageView
16                 android:layout_width="90dp"
17                 android:layout_height="120dp"
18                 android:padding="1dp"
19                 android:id="@+id/ImageViewProfile"
20                 android:src="@drawable/no_profile_image"
21                 android:background="@color/black"/>
22
23             <GridLayout
24                 android:layout_width="match_parent"
25                 android:layout_height="match_parent"
26                 android:rowCount="2"
27                 android:columnCount="3" >
28
29                 <TextView
30                     android:layout_row="0"
31                     android:layout_column="0"
32                     android:textColor="@color/black"
33                     android:text="이름" />
34
35                 <TextView
36                     android:layout_row="0"
37                     android:layout_column="1"
38                     android:textColor="@color/black"
39                     android:text=" " />
40
41                 <EditText
42                     android:layout_row="0"
43                     android:layout_column="2"
44                     android:layout_width="match_parent"
45                     android:id="@+id/EditTextName"/>
46
47                 <TextView
48                     android:layout_row="1"
49                     android:layout_column="0"
50                     android:textColor="@color/black"
51                     android:text="연락처" />
52
53                 <TextView
54                     android:layout_row="1"
55                     android:layout_column="1"
56                     android:textColor="@color/black"
57                     android:text=" " />
58
59                 <EditText
60                     android:layout_row="1"
61                     android:layout_column="2"
62                     android:layout_width="match_parent"
63                     android:id="@+id/EditTextPhone"
64                     android:inputType="number"/>
65
66             </GridLayout>
67
68         </LinearLayout>
69
70         <LinearLayout
71             android:layout_width="match_parent"
72             android:layout_height="wrap_content"
73             android:orientation="vertical"
74             android:layout_margin="10dp" >
75
76             <LinearLayout
77                 android:layout_width="match_parent"
78                 android:layout_height="wrap_content"
79                 android:orientation="horizontal" >
80
81                 <TextView
82                     android:layout_width="wrap_content"
83                     android:layout_height="wrap_content"
84                     android:text="성별"
85                     android:textColor="@color/black"
86                     android:layout_gravity="center" />
87
88                 <RadioGroup
89                     android:layout_width="wrap_content"
90                     android:layout_height="wrap_content"
91                     android:layout_margin="10dp"
92                     android:textColor="@color/black"
93                     android:orientation="horizontal" >
94
95                     <RadioButton
96                         android:layout_width="wrap_content"
97                         android:layout_height="wrap_content"
98                         android:id="@+id/RadioButtonMale"
99                         android:text="남성" />
100
101                     <RadioButton
102                         android:layout_width="wrap_content"
103                         android:layout_height="wrap_content"
104                         android:id="@+id/RadioButtonFemale"
105                         android:text="여성" />
106
107                 </RadioGroup>
108
109             </LinearLayout>
110
111             <LinearLayout
112                 android:layout_width="match_parent"
113                 android:layout_height="wrap_content" >
114
115                 <TextView
116                     android:layout_gravity="center"
117                     android:layout_width="wrap_content"
118                     android:layout_height="wrap_content"
119                     android:textColor="@color/black"

```

```

51         <EditText
52             android:layout_row="1"
53             android:layout_column="2"
54             android:layout_width="match_parent"
55             android:id="@+id/EditTextPhone"
56             android:inputType="number"/>
57
58     </GridLayout>
59
60 </LinearLayout>
61
62 <LinearLayout
63     android:layout_width="match_parent"
64     android:layout_height="wrap_content"
65     android:orientation="vertical"
66     android:layout_margin="10dp" >
67
68     <LinearLayout
69         android:layout_width="match_parent"
70         android:layout_height="wrap_content"
71         android:orientation="horizontal" >
72
73         <TextView
74             android:layout_width="wrap_content"
75             android:layout_height="wrap_content"
76             android:text="성별"
77             android:textColor="@color/black"
78             android:layout_gravity="center" />
79
80         <RadioGroup
81             android:layout_width="wrap_content"
82             android:layout_height="wrap_content"
83             android:layout_margin="10dp"
84             android:textColor="@color/black"
85             android:orientation="horizontal" >
86
87             <RadioButton
88                 android:layout_width="wrap_content"
89                 android:layout_height="wrap_content"
90                 android:id="@+id/RadioButtonMale"
91                 android:text="남성" />
92
93             <RadioButton
94                 android:layout_width="wrap_content"
95                 android:layout_height="wrap_content"
96                 android:id="@+id/RadioButtonFemale"
97                 android:text="여성" />
98
99         </RadioGroup>
100
101     </LinearLayout>
102
103     <LinearLayout
104         android:layout_width="match_parent"
105         android:layout_height="wrap_content" >
106
107         <TextView
108             android:layout_gravity="center"
109             android:layout_width="wrap_content"
110             android:layout_height="wrap_content"
111             android:textColor="@color/black"

```

```

101         android:text="생년월일 : " />
102     <TextView
103         android:layout_gravity="center"
104         android:layout_width="wrap_content"
105         android:layout_height="wrap_content"
106         android:text="0000"
107         android:id="@+id/textViewYear" />
108     <TextView
109         android:layout_gravity="center"
110         android:layout_width="wrap_content"
111         android:layout_height="wrap_content"
112         android:textColor="@color/black"
113         android:text="년" />
114     <TextView
115         android:layout_gravity="center"
116         android:layout_width="wrap_content"
117         android:layout_height="wrap_content"
118         android:text="00"
119         android:id="@+id/textViewMonth" />
120     <TextView
121         android:layout_gravity="center"
122         android:layout_width="wrap_content"
123         android:layout_height="wrap_content"
124         android:textColor="@color/black"
125         android:text="월" />
126     <TextView
127         android:layout_gravity="center"
128         android:layout_width="wrap_content"
129         android:layout_height="wrap_content"
130         android:text="00"
131         android:id="@+id/textViewDay" />
132     <TextView
133         android:layout_gravity="center"
134         android:layout_width="wrap_content"
135         android:layout_height="wrap_content"
136         android:textColor="@color/black"
137         android:text="일" />
138     <Button
139         android:layout_width="wrap_content"
140         android:layout_height="wrap_content"
141         android:text="선택"
142         android:layout_gravity="right"
143         android:id="@+id/buttonBirthday" />
144 </LinearLayout>
145 </LinearLayout>
146 <LinearLayout
147     android:layout_width="match_parent"
148     android:layout_height="wrap_content"
149     android:orientation="horizontal"
150     android:layout_margin="10dp">

```

```

151     <TextView
152         android:layout_width="wrap_content"
153         android:layout_height="wrap_content"
154         android:textColor="@color/black"
155         android:text="추가 내용" />
156     <EditText
157         android:layout_width="match_parent"
158         android:layout_height="wrap_content"
159         android:id="@+id/editTextInfo"
160         android:lines="6"
161         android:background="#EEEEEE" />
162 </LinearLayout>
163 <LinearLayout
164     android:layout_width="match_parent"
165     android:layout_height="wrap_content"
166     android:gravity="center"
167     android:orientation="horizontal" >
168     <Button
169         android:layout_width="wrap_content"
170         android:layout_height="wrap_content"
171         android:text="회원정보 등록"
172         android:id="@+id/ButtonInputInfo"
173         android:layout_margin="10dp" />
174     <Button
175         android:layout_width="wrap_content"
176         android:layout_height="wrap_content"
177         android:text="뒤로가기"
178         android:id="@+id/ButtonReturn"
179         android:layout_margin="10dp" />
180 </LinearLayout>
181 </LinearLayout>

```

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     android:orientation="horizontal"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent">
7
8     <ScrollView
9         android:layout_width="100dp"
10        android:layout_height="fill_parent"
11        android:padding="5dp"
12        android:background="@#888888">
13
14        <LinearLayout
15            android:layout_width="fill_parent"
16            android:layout_height="fill_parent"
17            android:orientation="vertical"
18            android:id="@+id/LinearLayoutScrollButtonAdd">
19
20            </LinearLayout>
21        </ScrollView>
22        <LinearLayout
23            android:layout_width="match_parent"
24            android:layout_height="match_parent"
25            android:orientation="vertical">
26
27            <LinearLayout
28                android:layout_width="match_parent"
29                android:layout_height="wrap_content"
30                android:orientation="horizontal"
31                android:layout_margin="10dp">
32
33                <ImageView
34                    android:layout_width="90dp"
35                    android:layout_height="120dp"
36                    android:padding="1dp"
37                    android:id="@+id/ImageUserProfile"
38                    android:src="@drawable/no_profile_image"
39                    android:background="@color/black"/>
40
41                <GridLayout
42                    android:layout_width="match_parent"
43                    android:layout_height="match_parent"
44                    android:rowCount="4"
45                    android:columnCount="3"
46                    android:layout_margin="5dp">
47
48                    <TextView
49                        android:layout_row="0"
50                        android:layout_column="0"
51                        android:text="이름"
52                        android:textColor="@color/black"/>
53
54                    <TextView
55                        android:layout_row="0"
56                        android:layout_column="1"
57                        android:text=" : "
```

```

100         android:layout_width="match_parent"
101         android:id="@+id/TextViewBirthday"/>
102     </GridLayout>
103 </LinearLayout>
104 <TableLayout
105     android:layout_width="match_parent"
106     android:layout_height="wrap_content"
107     android:orientation="vertical"
108     android:stretchColumns="2"
109     android:layout_margin="10dp">
110     <TableRow>
111         <TextView
112             android:textColor="@color/black"
113             android:text="추가 내용" />
114         <TextView
115             android:textColor="@color/black"
116             android:text=" " />
117         <TextView
118             android:lines="6"
119             android:background="#EEEEEE"
120             android:id="@+id/textViewInfo" />
121     </TableRow>
122 </TableLayout>
123 <LinearLayout
124     android:layout_width="match_parent"
125     android:layout_height="wrap_content"
126     android:gravity="center"
127     android:orientation="horizontal">
128     <Button
129         android:layout_width="wrap_content"
130         android:layout_height="wrap_content"
131         android:text="회원정보 삭제"
132         android:id="@+id/buttonDeleteMember"
133         android:layout_margin="10dp" />
134     <Button
135         android:layout_width="wrap_content"
136         android:layout_height="wrap_content"
137         android:text="뒤로가기"
138         android:id="@+id/buttonReturn"
139         android:layout_margin="10dp" />
140 </LinearLayout>
141 </LinearLayout>
142 </LinearLayout>

```

사용설명 액티비티

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:orientation="vertical"
4      android:layout_width="match_parent"
5      android:layout_height="match_parent">
6
7      <LinearLayout
8          android:orientation="vertical"
9          android:layout_width="match_parent"
10         android:layout_height="match_parent">
11
12         <FrameLayout
13             android:layout_width="match_parent"
14             android:layout_height="match_parent"
15             android:layout_weight="1">
16
17             <ImageView
18                 android:adjustViewBounds="true"
19                 android:id="@+id/imageview"
20                 android:layout_width="match_parent"
21                 android:layout_height="match_parent"/>
22
23         </FrameLayout>
24
25         <LinearLayout
26             android:layout_weight="10"
27             android:layout_width="match_parent"
28             android:layout_height="match_parent">
29
30             <Button
31                 android:id="@+id/left_btn"
32                 android:text="Left"
33                 android:textSize="20dp"
34                 android:layout_margin="2dp"
35                 android:layout_width="match_parent"
36                 android:layout_height="match_parent"
37                 android:layout_weight="1"/>
38
39             <Button
40                 android:id="@+id/right_btn"
41                 android:text="Right"
42                 android:textSize="20dp"
43                 android:layout_margin="2dp"
44                 android:layout_width="match_parent"
45                 android:layout_height="match_parent"
46                 android:layout_weight="1"/>
47
48             <Button
49                 android:id="@+id/return_btn"
50                 android:text="뒤로가기"
51                 android:textSize="15dp"
52                 android:layout_margin="2dp"
53                 android:layout_width="match_parent"
54                 android:layout_height="match_parent"
55                 android:layout_weight="1"/>
56
57         </LinearLayout>
58
59     </LinearLayout>
60 </LinearLayout>

```


메인

```

1 package com.example.membermanagementapplication;
2
3 import androidx.annotation.NonNull;
4 import androidx.appcompat.app.AppCompatActivity;
5 import android.app.AlertDialog;
6 import android.content.Context;
7 import android.content.DialogInterface;
8 import android.content.Intent;
9 import android.database.Cursor;
10 import android.database.sqlite.SQLiteDatabase;
11 import android.database.sqlite.SQLiteOpenHelper;
12 import android.os.Bundle;
13 import android.view.Menu;
14 import android.view.MenuInflater;
15 import android.view.MenuItem;
16 import android.view.View;
17 import android.widget.Button;
18 import android.widget.TextView;
19 import android.widget.Toast;
20 import java.util.Random;
21
22 public class MainActivity extends AppCompatActivity {
23     public static Context context_main;
24     public DBHelper myHelper;
25     public SQLiteDatabase sqldb;
26     static int e;
27
28     @Override
29     protected void onCreate(Bundle savedInstanceState) {
30         super.onCreate(savedInstanceState);
31         setContentView(R.layout.activity_main);
32         context_main = this;
33
34         String[] hello = {"안녕하세요!", "어서오세요!", "반갑습니다!", "오늘도 좋은 하루!",
35             "도움이 필요하시면\n오른쪽 상단을 눌러주세요!", "초기와 버튼은 위험해요!",
36             "죽은 날까지 하늘을 우리라\n한 점 부끄럼 없기를..",
37             "말은 사 하이란 고맙은\n고이 겠어서 나발래라",
38             "기다리고 있었습시다 ( _ _ )", "( _ _ )응?( _ _ )응?( _ _ )응?",
39             "( _ _ ) - 평곳-+-"};
40
41         TextView textViewSayHello = (TextView)findViewById(R.id.textViewSayHello);
42         Random random = new Random();
43         textViewSayHello.setText(hello[random.nextInt(hello.length)]);
44         textViewSayHello.setOnClickListener(new View.OnClickListener() {
45             @Override
46             public void onClick(View view) {
47                 Intent intent = getIntent();
48                 finish();
49                 overridePendingTransition(enterAnim: 0, exitAnim: 0);
50                 startActivity(intent);
51                 overridePendingTransition(enterAnim: 0, exitAnim: 0);
52                 e++;
53                 if(e == 100) {
54                     Toast.makeText(getApplicationContext(), text: "칭오 획득\n[개원으로 바꿔치기]", Toast.LENGTH_LONG).show();
55                 }
56             }
57         });
58
59         Button buttonInputInfo = (Button)findViewById(R.id.ButtonInputInfo); //회원추가 버튼 이벤트
60         buttonInputInfo.setOnClickListener(new View.OnClickListener() {

```

3. Java코드 작성 및 수정(.java)

```

61         public void onClick(View view) {
62             Intent intent = new Intent(getApplicationContext(), ActivityInputInfo.class);
63             startActivity(intent);
64         }
65     });
66
67     Button buttonSearchInfo = (Button)findViewById(R.id.ButtonSearchInfo); //회원 조회 버튼 이벤트
68     buttonSearchInfo.setOnClickListener(new View.OnClickListener() {
69         public void onClick(View view) {
70             Intent intent = new Intent(getApplicationContext(), ActivitySearchInfo.class);
71             startActivity(intent);
72         }
73     });
74
75     myHelper = new DBHelper(context, this);
76     TextView textViewHowManyPeople = (TextView)findViewById(R.id.TextViewHowManyPeople); //현재 회원 수
77     sqldb = myHelper.getWritableDatabase();
78     Cursor cursor;
79     cursor = sqldb.rawQuery("SELECT * FROM groupTbl", selectionArgs: null);
80     int howManySqlRow = cursor.getCount();
81     textViewHowManyPeople.setText(Integer.toString(howManySqlRow));
82     sqldb.close();
83 }
84
85 public void refresh() { //메인 액티비티 리프레쉬 함수
86     Intent intent = getIntent();
87     finish();
88     overridePendingTransition(enterAnim: 0, exitAnim: 0);
89     startActivity(intent);
90     overridePendingTransition(enterAnim: 0, exitAnim: 0);
91 }
92
93 @Override
94 public boolean onCreateOptionsMenu(@NonNull Menu menu) {
95     super.onCreateOptionsMenu(menu);
96     MenuInflater mInflater = getMenuInflater();
97     mInflater.inflate(R.menu.menu_activity_main, menu);
98     return true;
99 }
100
101 @Override
102 public boolean onOptionsItemSelected(@NonNull MenuItem item) {
103     switch (item.getItemId()) {
104         case R.id.itemInitialization:
105             AlertDialog.Builder dlg = new AlertDialog.Builder(context: MainActivity.this);
106             dlg.setTitle("모든 회원정보가 삭제됩니다.");
107             dlg.setMessage("정말 초기화하시겠습니까?");
108             dlg.setIcon(R.drawable.warning_icon);
109             dlg.setPositiveButton(text: "확인", new DialogInterface.OnClickListener() {
110                 @Override
111                 public void onClick(DialogInterface dialogInterface, int i) {
112                     sqldb = myHelper.getWritableDatabase();
113                     myHelper.onUpgrade(sqldb, oldVersion: 1, newVersion: 2);
114                     sqldb.close();
115                     Toast.makeText(getApplicationContext(), text: "초기와 완료", Toast.LENGTH_SHORT).show();
116                 }
117             });
118             dlg.setNegativeButton(text: "취소", listener: null);
119             dlg.show();
120             return true;

```

```

121:
122:         case R.id.showManual:
123:             Intent intent = new Intent(getApplicationContext(), Explanation.class);
124:             startActivity(intent);
125:         }
126:         return false;
127:     }
128:
129:     public class myDBHelper extends SQLiteOpenHelper {
130:         public myDBHelper(Context context) { super(context, "groupDB", null, 1); }
131:
132:         @Override
133:         public void onCreate(SQLiteDatabase db) {
134:             db.execSQL("CREATE TABLE groupTbl (gName CHAR(20) PRIMARY KEY, gPhone CHAR(20), gGender CHAR(20), gBirthday CHAR(20), gInfo CHAR(200), gPicture INTEGER);");
135:         }
136:
137:         @Override
138:         public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
139:             db.execSQL("DROP TABLE IF EXISTS groupTbl");
140:             onCreate(db);
141:         }
142:     }
143: }

```

회원 추가

```

1: package com.example.membermanagementsapplication;
2:
3: import android.app.Activity;
4: import android.app.AlertDialog;
5: import android.content.DialogInterface;
6: import android.content.Intent;
7: import android.database.sqlite.SQLiteDatabase;
8: import android.os.Bundle;
9: import android.view.View;
10: import android.widget.Button;
11: import android.widget.DatePicker;
12: import android.widget.EditText;
13: import android.widget.ImageView;
14: import android.widget.RadioGroup;
15: import android.widget.TextView;
16: import android.widget.Toast;
17: import java.util.Calendar;
18:
19: public class ActivityInputInfo extends Activity {
20:     int selectYear, selectMonth, selectDay;
21:     int selectPicture = -1;
22:     TextView textViewYear, textViewMonth, textViewDay;
23:     String gender, birthday;
24:     MainActivity.myDBHelper myHelper = ((MainActivity)MainActivity.context_main).myHelper;
25:     SQLiteDatabase sqldb = ((MainActivity)MainActivity.context_main).sqldb;
26:
27:     @Override
28:     protected void onCreate(Bundle savedInstanceState) {
29:         super.onCreate(savedInstanceState);
30:         setContentView(R.layout.input_info_activity);
31:
32:         Button buttonReturn = (Button) findViewById(R.id.ButtonReturn); //뒤로가기 버튼 이벤트
33:         buttonReturn.setOnClickListener(new View.OnClickListener() {
34:             @Override
35:             public void onClick(View view) { finish(); }
36:         });
37:
38:         ImageView imageViewProfilePicture = (ImageView) findViewById(R.id.imageViewProfile); //이미지 선택 이벤트
39:         imageViewProfilePicture.setOnClickListener(new View.OnClickListener() {
40:             @Override
41:             public void onClick(View view) {
42:                 Integer pictureSrc[] = { R.drawable.profile1, R.drawable.profile2, R.drawable.profile3, R.drawable.profile4, R.drawable.profile5, R.drawable.profile6, R.drawable.profile7, R.drawable.profile8 };
43:                 final String[] pictureArray = new String[] { "수위사(남자)", "수위사(여자)", "간호사(남자)", "간호사(여자)", "농부(남자)", "농부(여자)", "엔지니어(남자)", "엔지니어(여자)" };
44:                 AlertDialog.Builder dlg = new AlertDialog.Builder( context: ActivityInputInfo.this);
45:                 dlg.setTitle("프로필 사진 선택");
46:                 dlg.setSingleChoiceItems(pictureArray, checkedItem: 0, new DialogInterface.OnClickListener() {
47:                     @Override
48:                     public void onClick(DialogInterface dialogInterface, int i) {
49:                         imageViewProfilePicture.setImageResource(pictureSrc[i]);
50:                         selectPicture = i;
51:                     }
52:                 });
53:
54:                 dlg.setPositiveButton( text: "확인", listener: null);
55:                 dlg.setNegativeButton( text: "취소", listener: null);
56:                 dlg.show();
57:             }
58:         });
59:     }
60: }

```

```

81    });
82
83    textViewYear = (TextView) findViewById(R.id.textViewYear);
84    textViewMonth = (TextView) findViewById(R.id.textViewMonth);
85    textViewDay = (TextView) findViewById(R.id.textViewDay);
86
87    Button birthdayDialog = (Button) findViewById(R.id.buttonBirthday); //생년월일 선택 버튼 이벤트
88    birthdayDialog.setOnClickListener(new View.OnClickListener() {
89
90        @Override
91        public void onClick(View view) {
92            View birthdayDialogView = (View) View.inflate(getApplicationContext(), R.layout.dialog_birthday_calendar, null);
93            AlertDialog.Builder dlg = new AlertDialog.Builder(getApplicationContext());
94            dlg.setTitle("생년월일 입력");
95            dlg.setView(birthdayDialogView);
96
97            DatePicker datePickerBirthday = (DatePicker) birthdayDialogView.findViewById(R.id.DatePickerBirthday); //캘린더 클릭 시 사용 객체
98            Calendar cal = Calendar.getInstance();
99            int cYear = cal.get(Calendar.YEAR);
100            int cMonth = cal.get(Calendar.MONTH);
101            int cDay = cal.get(Calendar.DAY_OF_MONTH);
102
103            datePickerBirthday.init(cYear, cMonth, cDay, new DatePicker.OnDateChangedListener() {
104
105                @Override
106                public void onDateChanged(DatePicker datePicker, int year, int monthOfYear, int dayOfMonth) {
107                    selectYear = year;
108                    selectMonth = monthOfYear + 1;
109                    selectDay = dayOfMonth;
110                }
111            });
112
113            dlg.setPositiveButton("확인", new DialogInterface.OnClickListener() { //확인 버튼 누를 시 생년월일 입력
114
115                @Override
116                public void onClick(DialogInterface dialogInterface, int which) {
117                    textViewYear.setText(Integer.toString(selectYear));
118                    textViewMonth.setText(Integer.toString(selectMonth));
119                    textViewDay.setText(Integer.toString(selectDay));
120                }
121            });
122            dlg.setNegativeButton("취소", null);
123            dlg.show();
124        }
125    });
126
127    EditText editTextPhone = (EditText) findViewById(R.id.EditTextPhone); //전화 정보와 포함 될 연락처
128    EditText editTextPhone = (EditText) findViewById(R.id.EditTextPhone);
129    RadioButton radioButtonMale = (RadioButton) findViewById(R.id.RadioButtonMale);
130    RadioButton radioButtonFemale = (RadioButton) findViewById(R.id.RadioButtonFemale);
131    EditText editTextInfo = (EditText) findViewById(R.id.EditTextInfo);
132    Button buttonInputInfo = (Button) findViewById(R.id.ButtonInputInfo);
133
134    buttonInputInfo.setOnClickListener(new View.OnClickListener() { //회원정보 등록 버튼 이벤트
135
136        @Override
137        public void onClick(View view) {
138            birthdayWO = selectYear + "-" + selectMonth + "-" + selectDay + "일";
139            if(editTextInfo.getText().toString().isEmpty() || editTextPhone.getText().toString().isEmpty() || (gender == null || gender.isEmpty()) || birthdayWO.equals("0000-00-00")) {
140                Toast.makeText(getApplicationContext(), "회원 입력된 항목 존재", Toast.LENGTH_SHORT).show(); //미입력 항목 존재 시 메시지
141            } else {
142                sqldb = dbHelper.getWritableDatabase();
143                sqldb.execSQL("INSERT INTO groupDB (id,name,gender,birthday,phone,info) VALUES ('" + editTextPhone.getText().toString() + "','" + editTextPhone.getText().toString() + "','" + gender + "','" + birthdayWO + "','" + editTextInfo.getText().toString() + "','" + selectPicture + "')");
144                sqldb.close();
145                Intent intent = getIntent();
146                finish();
147                overridePendingTransition(enterAnim: 0, exitAnim: 0);
148                ((MainActivity)MainActivity.context_main).refresh();
149                startActivity(intent);
150                overridePendingTransition(enterAnim: 0, exitAnim: 0);
151                Toast.makeText(getApplicationContext(), text: "추가 완료", Toast.LENGTH_SHORT).show();
152            }
153        }
154    });
155
156    radioButtonMale.setOnClickListener(new View.OnClickListener() { //남자 선택 시
157
158        @Override
159        public void onClick(View view) { gender = "남성"; }
160    });
161
162    radioButtonFemale.setOnClickListener(new View.OnClickListener() { //여자 선택 시
163
164        @Override
165        public void onClick(View view) { gender = "여성"; }
166    });
167
168    }
169
170    }

```


회원 조회

```

1 package com.example.membermanagementapplication;
2
3 import android.app.Activity;
4 import android.app.AlertDialog;
5 import android.content.DialogInterface;
6 import android.content.Intent;
7 import android.database.Cursor;
8 import android.database.sqlite.SQLiteDatabase;
9 import android.os.Bundle;
10 import android.util.Log;
11 import android.view.View;
12 import android.widget.Button;
13 import android.widget.ImageView;
14 import android.widget.LinearLayout;
15 import android.widget.TextView;
16 import android.widget.Toast;
17
18 public class ActivitySearchInfo extends Activity {
19     MainActivity.myDBHelper myHelper = ((MainActivity)MainActivity.context_main).myHelper;
20     SQLiteDatabase sqldb = ((MainActivity)MainActivity.context_main).sqldb;
21     @Override
22     protected void onCreate(Bundle savedInstanceState) {
23         super.onCreate(savedInstanceState);
24         setContentView(R.layout.search_info_activity);
25         LinearLayout linearLayoutScrollButtonAdd = (LinearLayout) findViewById(R.id.LinearLayoutScrollButtonAdd);
26
27         Button buttonReturn = (Button) findViewById(R.id.ButtonReturn); //뒤로가기 버튼 이벤트
28         buttonReturn.setOnClickListener(new View.OnClickListener() {
29             @Override
30             public void onClick(View view) { finish(); }
31         });
32
33         TextView textViewName = (TextView) findViewById(R.id.TextViewName); //회원 정보 표현하는 뷰들
34         TextView textViewPhone = (TextView) findViewById(R.id.TextViewPhone);
35         TextView textViewGender = (TextView) findViewById(R.id.TextViewGender);
36         TextView textViewBirthday = (TextView) findViewById(R.id.TextViewBirthday);
37         TextView textViewInfo = (TextView) findViewById(R.id.textViewInfo);
38         ImageView imageViewProfile = (ImageView) findViewById(R.id.imageViewProfile);
39         Integer pictureSrc[] = { R.drawable.profile1, R.drawable.profile2, R.drawable.profile3, R.drawable.profile4, R.drawable.profile5, R.drawable.profile6, R.drawable.profile7, R.drawable.profile8 };
40
41         sqldb = myHelper.getReadableDatabase();
42         Cursor cursor;
43         cursor = sqldb.rawQuery("SELECT * FROM groupTBL", selectionArgs: null);
44
45         while (cursor.moveToNext()) { //회원 버튼 생성 및 동작
46             Button btn = new Button(context: this);
47             btn.setText(cursor.getString(0));
48             btn.setId(cursor.getPosition());
49             int position = cursor.getPosition();
50             btn.setOnClickListener(new View.OnClickListener() {
51                 @Override
52                 public void onClick(View view) {
53                     Log.d("tag", "log", msg: "position : " + position);
54                     int i = position;
55                     cursor.moveToPosition(position);
56                     textViewName.setText(cursor.getString(1));
57                     textViewPhone.setText(cursor.getString(2));
58                     textViewGender.setText(cursor.getString(3));
59                     textViewBirthday.setText(cursor.getString(4));
60
61                     textViewInfo.setText(cursor.getString(4));
62                     imageViewProfile.setImageResource(pictureSrc[cursor.getInt(5)]);
63                 }
64             });
65             linearLayoutScrollButtonAdd.addView(btn);
66         }
67
68         final Button buttonDeleteMember = (Button) findViewById(R.id.buttonDeleteMember); //회원정보 삭제 이벤트
69         buttonDeleteMember.setOnClickListener(new View.OnClickListener() {
70             @Override
71             public void onClick(View view) {
72                 if(textViewName.getText().toString().isEmpty()) { //회원정보 미지정 상태 삭제 시 예외처리
73                     AlertDialog.Builder dlg = new AlertDialog.Builder(context: ActivitySearchInfo.this);
74                     dlg.setTitle("경고!!");
75                     dlg.setMessage("삭제 할 회원정보가 없거나 지정되지 않았습니다.");
76                     dlg.setIcon(R.drawable.warning_icon);
77                     dlg.setPositiveButton(text: "확인", listener: null);
78                     dlg.show();
79                 }
80                 else {
81                     AlertDialog.Builder dlg = new AlertDialog.Builder(context: ActivitySearchInfo.this);
82                     dlg.setTitle("경고!!");
83                     dlg.setMessage("정말 삭제하시겠습니까?");
84                     dlg.setIcon(R.drawable.warning_icon);
85                     dlg.setPositiveButton(text: "확인", new DialogInterface.OnClickListener() {
86                         @Override
87                         public void onClick(DialogInterface dialogInterface, int i) {
88                             sqldb.execSQL("DELETE FROM groupTBL WHERE gName = " + cursor.getString(0) + ";");
89                             Intent intent = getIntent();
90                             finish();
91                             overridePendingTransition(enterAnim: 0, exitAnim: 0);
92                             ((MainActivity)MainActivity.context_main).refresh();
93                             startActivity(intent);
94                             overridePendingTransition(enterAnim: 0, exitAnim: 0);
95                             Toast.makeText(getApplicationContext(), text: "삭제 완료", Toast.LENGTH_SHORT).show();
96                         }
97                     });
98                     dlg.setNegativeButton(text: "취소", listener: null);
99                     dlg.show();
100                 }
101             }
102         });
103     }
104 }

```

```

61         textViewInfo.setText(cursor.getString(4));
62         imageViewProfile.setImageResource(pictureSrc[cursor.getInt(5)]);
63     }
64 }
65 linearLayoutScrollButtonAdd.addView(btn);
66 }
67
68 final Button buttonDeleteMember = (Button) findViewById(R.id.buttonDeleteMember); //회원정보 삭제 이벤트
69 buttonDeleteMember.setOnClickListener(new View.OnClickListener() {
70     @Override
71     public void onClick(View view) {
72         if(textViewName.getText().toString().isEmpty()) { //회원정보 미지정 상태 삭제 시 예외처리
73             AlertDialog.Builder dlg = new AlertDialog.Builder(context: ActivitySearchInfo.this);
74             dlg.setTitle("경고!!");
75             dlg.setMessage("삭제 할 회원정보가 없거나 지정되지 않았습니다.");
76             dlg.setIcon(R.drawable.warning_icon);
77             dlg.setPositiveButton(text: "확인", listener: null);
78             dlg.show();
79         }
80         else {
81             AlertDialog.Builder dlg = new AlertDialog.Builder(context: ActivitySearchInfo.this);
82             dlg.setTitle("경고!!");
83             dlg.setMessage("정말 삭제하시겠습니까?");
84             dlg.setIcon(R.drawable.warning_icon);
85             dlg.setPositiveButton(text: "확인", new DialogInterface.OnClickListener() {
86                 @Override
87                 public void onClick(DialogInterface dialogInterface, int i) {
88                     sqldb.execSQL("DELETE FROM groupTBL WHERE gName = " + cursor.getString(0) + ";");
89                     Intent intent = getIntent();
90                     finish();
91                     overridePendingTransition(enterAnim: 0, exitAnim: 0);
92                     ((MainActivity)MainActivity.context_main).refresh();
93                     startActivity(intent);
94                     overridePendingTransition(enterAnim: 0, exitAnim: 0);
95                     Toast.makeText(getApplicationContext(), text: "삭제 완료", Toast.LENGTH_SHORT).show();
96                 }
97             });
98             dlg.setNegativeButton(text: "취소", listener: null);
99             dlg.show();
100         }
101     }
102 }
103 }
104 }

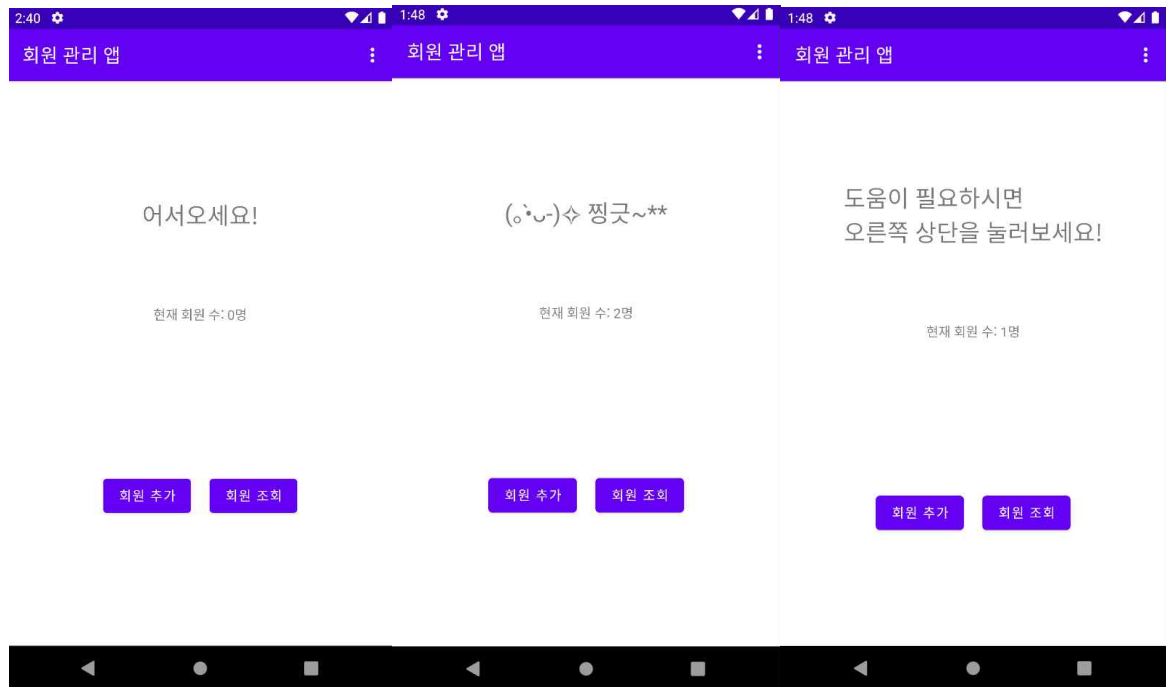
```

사용 설명 액티비티

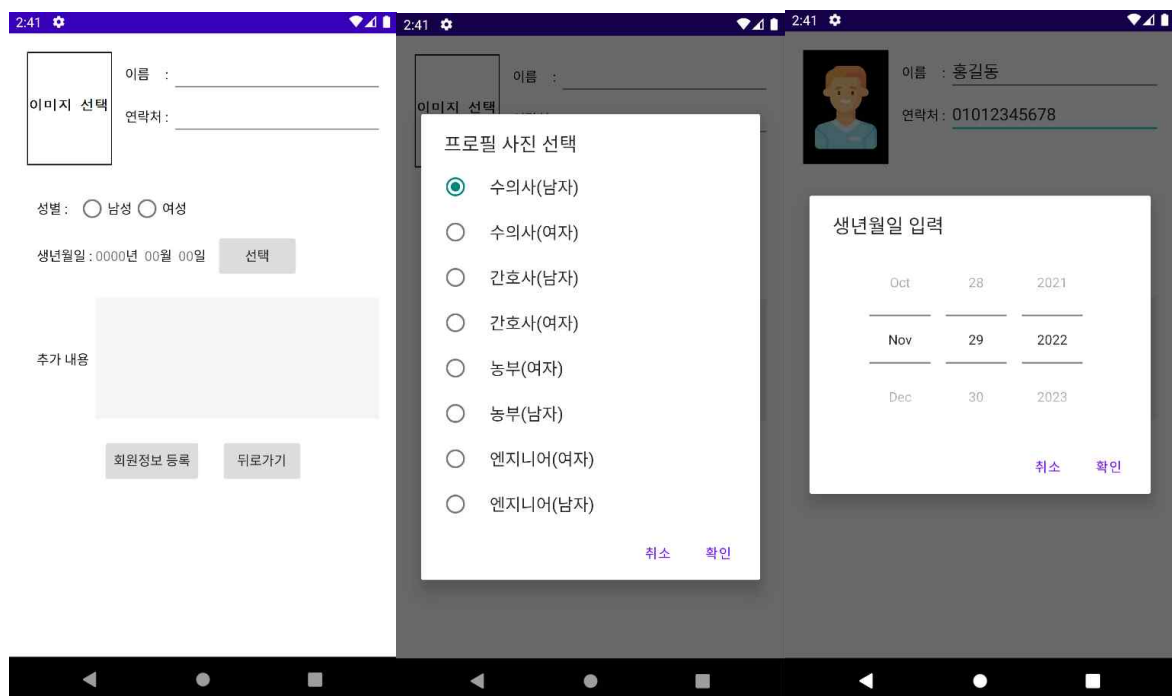
```
1 package com.example.membermanagementapplication;
2 import ...
10
11 public class Explanation extends AppCompatActivity{
12     int i, max;
13     ImageView imageView;
14     TypedArray typedArray;
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.explanation);
19
20         imageView = (ImageView)findViewById(R.id.imageview);
21         typedArray = getResources().obtainTypedArray(R.array.app_image);
22
23         i = 0;
24         max = typedArray.length();
25         imageView.setImageResource(typedArray.getResourceId(i, defValue: -1));
26
27         Button left_btn = (Button)findViewById(R.id.left_btn);
28         left_btn.setOnClickListener(new View.OnClickListener(){
29             @Override
30             public void onClick(View view) {
31                 i--;
32                 if(i<=0)
33                     i=0;
34                 imageView.setImageResource(typedArray.getResourceId(i, defValue: -1));
35             }
36         });
37
38         Button right_btn = (Button)findViewById(R.id.right_btn);
39         right_btn.setOnClickListener(new View.OnClickListener(){
40             @Override
41             public void onClick(View view) {
42                 i++;
43                 if(i>=max)
44                 {
45                     i = max - 1;
46                 }
47                 imageView.setImageResource(typedArray.getResourceId(i, defValue: -1));
48             }
49         });
50
51         Button return_btn = (Button) findViewById(R.id.return_btn);
52         return_btn.setOnClickListener(new View.OnClickListener(){
53             public void onClick(View v) { finish(); }
54         });
55
56         ActionBar actionBar = getSupportActionBar();
57         actionBar.hide();
58
59     }
60
61 }
62
63 }
```

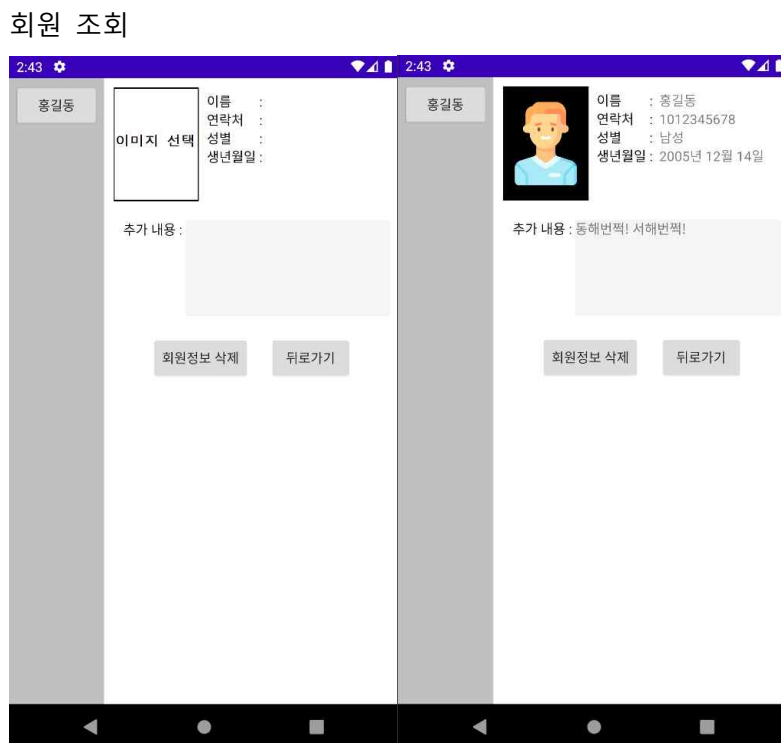
4. 프로젝트 실행
및 결과(AVD)

메인 화면

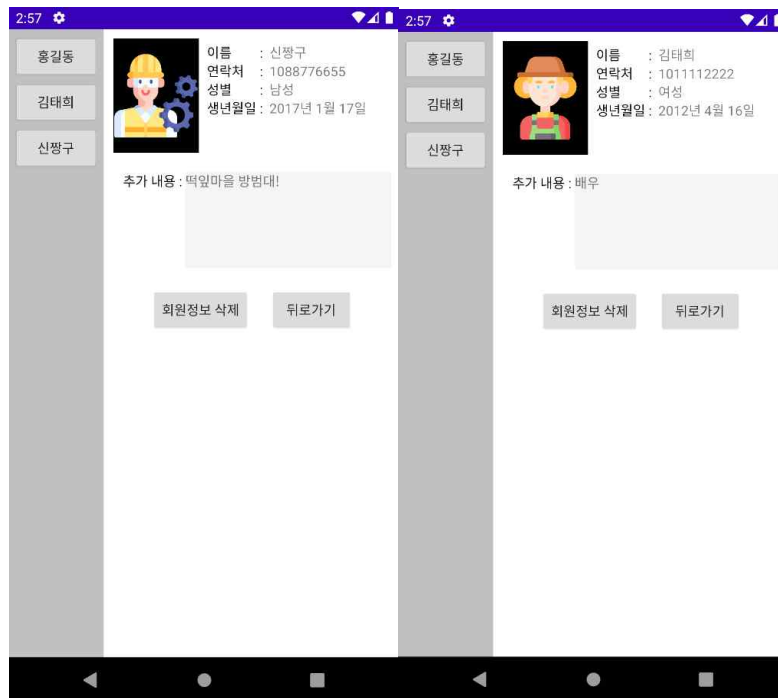


회원 추가

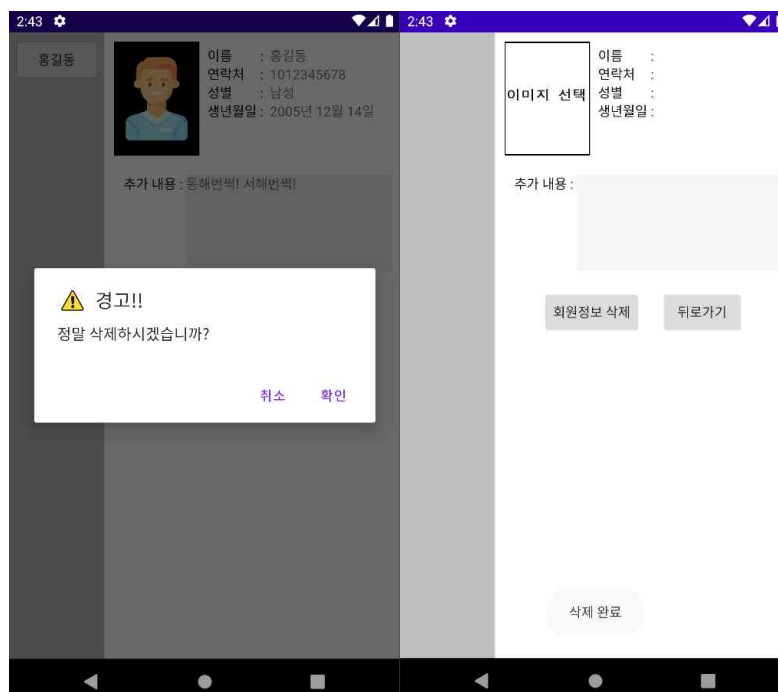




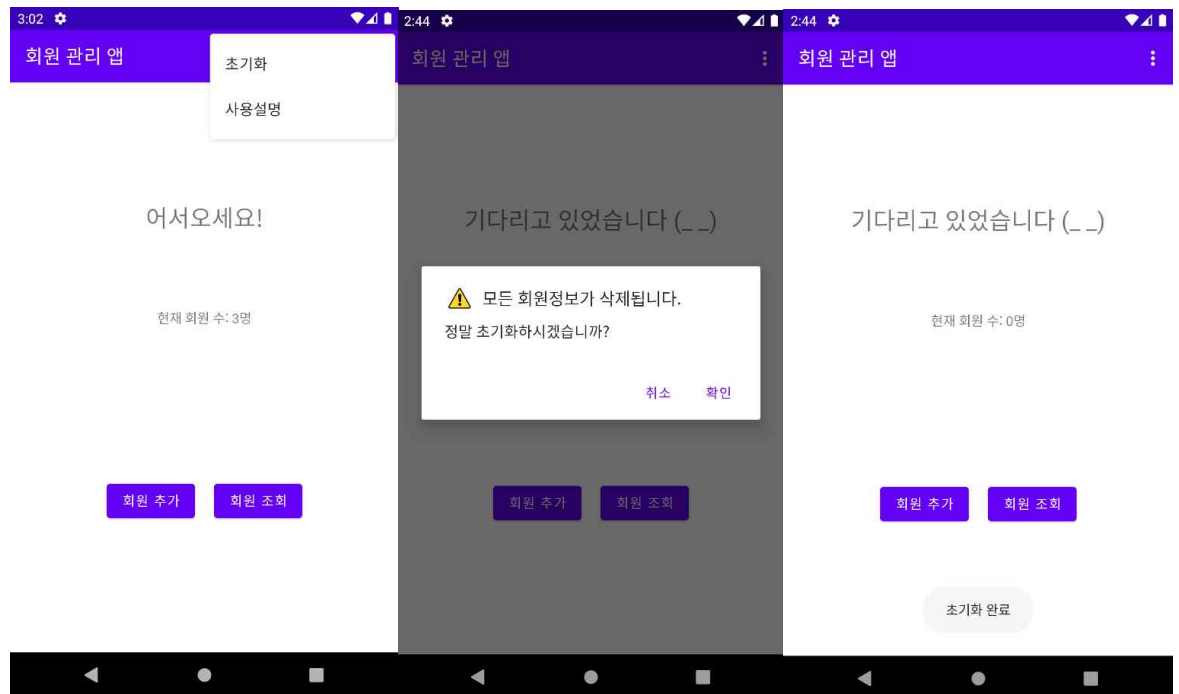
여러명의 회원



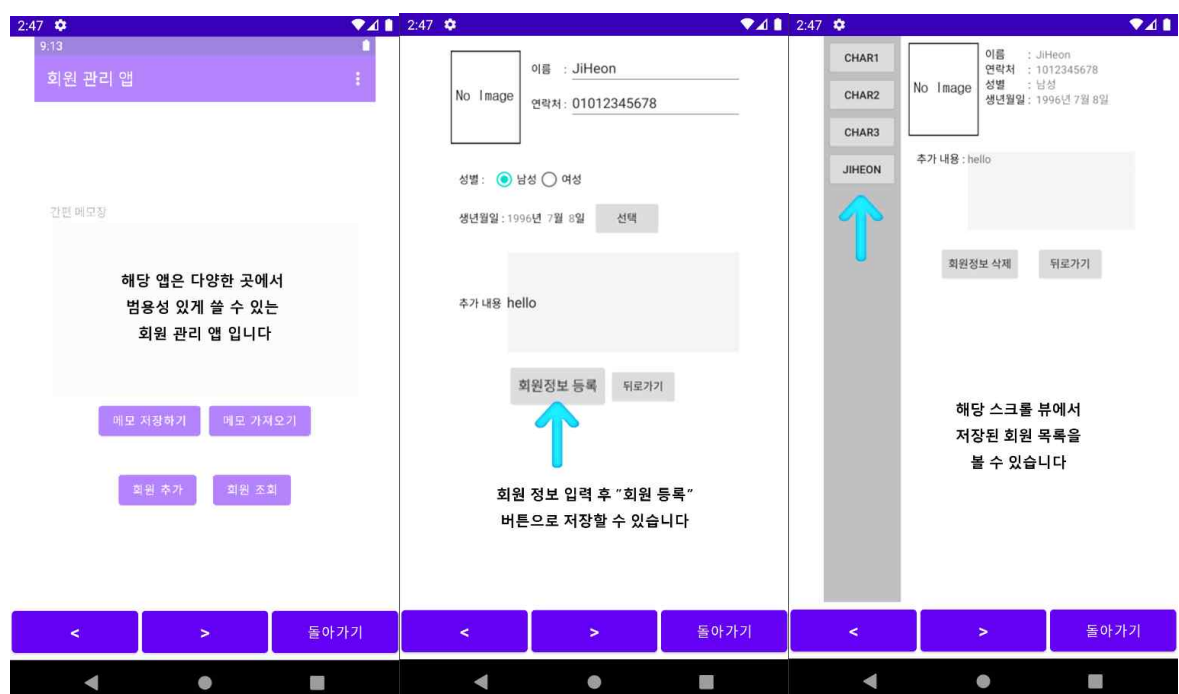
회원 삭제



메뉴-회원 정보 초기화



메뉴-앱 사용 설명서



<p>5. 안드로이드 애플리케이션 개발완료</p>	<p>프로젝트 주제: 다용도로 사용 가능한 회원 관리 앱을 만드는 것.</p> <p>성공률: 110%</p> <p>주제 선정 이후 가장 첫 번째 목표이자, 프로젝트의 핵심 기능인 회원 추가, 조회, 삭제 기능은 3주차가 되기 전에 대부분을 완성하였고, 포기 고려 대상이었던 이미지 추가 기능도 걸러내기보다는 색다른 방법으로 구현해 내었기에 100% + 간단명료하고 깔끔한 디자인과 앱의 정체성을 모호하지 않게 하는 선에서 추가로 구현된 기능들(사용 설명서, 메인 화면의 인사말 및 회원 수 표시 기능 등)이 있어 10%로 산정했다.</p> <p>아쉬운 점: 많은 회원이 등록될 수도 있는 앱이므로 조회를 편리하게 할 방법이 추가되었으면 하는 피드백이 있었는데, 정렬 기능이나 색인 기능 등의 방법을 생각해 보았으나 회원 리스트가 조회 화면 시작과 함께 생성되는 방식으로 이미 구현되어 있어 이러한 기능을 추가하려면 소스 전체를 갈아엎거나 정렬 시 기존 등록순으로 정렬된 데이터가 지워져야 하는 등 구현에 문제가 있어 포기해야 했다.</p> <p>차후에 시간을 갖고 앱을 유지보수한다면 가장 먼저 조회를 편리하게 할 기능 추가가 1순위이다. 그리고 회원 등록 시 오류 발생에 대한 예외 처리 때문에 회원 정보의 모든 항목을 작성하도록 했는데 추가 내용과 같은 일부 항목은 입력하지 않아도 되도록 하면 좋을 것 같다.</p>
-------------------------------------	---