

xPMP cv04

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1 Main

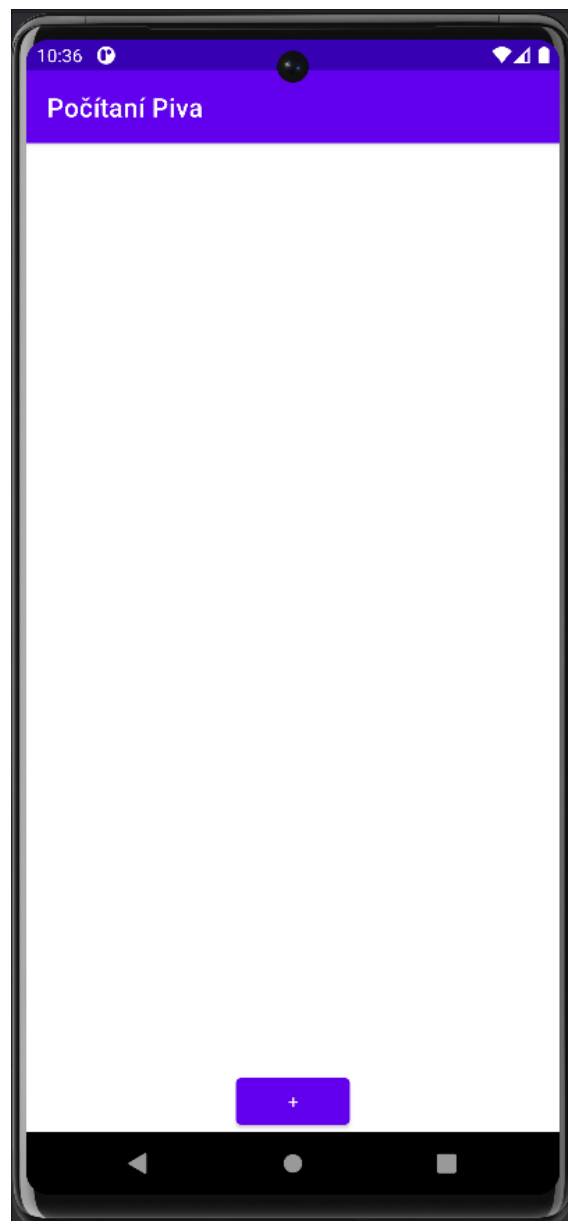
```
1 package com.example.xpmp_04;
2
3 import android.content.Intent;
4 import android.database.Cursor;
5 import android.os.Bundle;
6 import android.view.View;
7 import android.widget.AdapterView;
8 import android.widget.Button;
9 import android.widget.ListView;
10 import android.widget.Toast;
11
12 import androidx.appcompat.app.AppCompatActivity;
13
14 import java.util.ArrayList;
15
16 public class MainActivity extends AppCompatActivity {
17
18     private ListView listView;
19     private Button addButton;
20     private Button editButton;
21     private DBHelper dbHelper;
22     private BeerAdapter adapter;
23
24     @Override
25     protected void onCreate(Bundle savedInstanceState) {
26         super.onCreate(savedInstanceState);
27         setContentView(R.layout.activity_main);
28
29         listView = findViewById(R.id.listView);
30         addButton = findViewById(R.id.addButton);
31         dbHelper = new DBHelper(this);
32
33         adapter = new BeerAdapter(this, new ArrayList<>());
34         listView.setAdapter(adapter);
35
36         addButton.setOnClickListener(new View.OnClickListener() {
37             @Override
38             public void onClick(View v) {
39                 openAddItemActivity();
40             }
41         });
42
43         updateListView();
44
45         listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
46             @Override
47             public void onItemClick(AdapterView<?> parent, View view, int position
48 , long id) {
49                 BeerItem selectedItem = adapter.getItem(position);
50                 if (selectedItem != null) {
51                     openEditItemActivity((int) selectedItem.getId()); // Převést
52 ID na int
53                 }
54             }
55         });
56
57         private void openAddItemActivity() {
58             Intent intent = new Intent(MainActivity.this, AddItemActivity.class);
59             startActivity(intent);
60         }
61
62         private void openEditItemActivity() {
63             Intent intent = new Intent(MainActivity.this, EditItemActivity.class);
64             startActivity(intent);
65         }
66
67         private void openEditItemActivity(int selectedId) {
68             Intent intent = new Intent(MainActivity.this, EditItemActivity.class);
69             intent.putExtra("selected_id", selectedId);
70             startActivity(intent);
71         }
```

```

72     private void updateListView() {
73         adapter.clear();
74         Cursor cursor = dbHelper.getAllBeers();
75
76         if (cursor != null) {
77             while (cursor.moveToNext()) {
78                 String stupen = cursor.getString(1);
79                 int amount = cursor.getInt(2);
80                 adapter.add(new BeerItem(cursor.getLong(0), stupen, amount));
81             }
82             cursor.close();
83         } else {
84             Toast.makeText(this, "Error retrieving data from database", Toast.
85                 LENGTH_SHORT).show();
86         }
87     }

```

Listing 1: MainActivity.java



2 AddItemActivity

```

1 package com.example.xpmp_04;
2
3 import android.os.Bundle;
4 import android.view.View;
5 import android.widget.AdapterView;
6 import android.widget.Button;
7 import android.widget.EditText;
8 import android.widget.Spinner;
9 import android.widget.Toast;
10
11 import androidx.appcompat.app.AppCompatActivity;
12
13 import java.util.ArrayList;
14 import java.util.List;
15
16 public class AddItemActivity extends AppCompatActivity {
17
18     private DBHelper dbHelper;
19
20     @Override
21     protected void onCreate(Bundle savedInstanceState) {
22         super.onCreate(savedInstanceState);
23         setContentView(R.layout.add_item);
24
25         dbHelper = new DBHelper(this);
26
27         updateStupneSpinner();
28
29         Button confirmButton = findViewById(R.id.confirmButton);
30
31         confirmButton.setOnClickListener(new View.OnClickListener() {
32             @Override
33             public void onClick(View v) {
34                 saveDataToDatabase();
35             }
36         });
37     }
38
39     private void updateStupneSpinner() {
40         List<String> stupneList = new ArrayList<>();
41         stupneList.add("10 ");
42         stupneList.add("11 ");
43         stupneList.add("12 ");
44         stupneList.add("13 ");
45         stupneList.add("14 ");
46         stupneList.add("15 ");
47
48         Spinner stupneSpinner = findViewById(R.id.stupneSpinner);
49
50         if (!stupneList.isEmpty()) {
51             ArrayAdapter<String> stupneAdapter = new ArrayAdapter<>(this, android.
52 R.layout.simple_spinner_item, stupneList);
53             stupneAdapter.setDropDownViewResource(android.R.layout.
54 simple_spinner_dropdown_item);
55             stupneSpinner.setAdapter(stupneAdapter);
56         } else {
57             stupneList.add("No stupne available");
58             ArrayAdapter<String> stupneAdapter = new ArrayAdapter<>(this, android.
59 R.layout.simple_spinner_item, stupneList);
60             stupneAdapter.setDropDownViewResource(android.R.layout.
61 simple_spinner_dropdown_item);
62             stupneSpinner.setAdapter(stupneAdapter);
63         }
64     }
65
66     private void saveDataToDatabase() {
67         EditText amountEditText = findViewById(R.id.amountEditText);
68         Spinner stupneSpinner = findViewById(R.id.stupneSpinner);
69
70         String selectedStupen = stupneSpinner.getSelectedItem().toString();
71         String amountString = amountEditText.getText().toString();
72
73         if (!amountString.isEmpty()) {
74             int amount = Integer.parseInt(amountString);
75             boolean success = dbHelper.insertBeer(selectedStupen, amount);
76         }
77     }
78 }

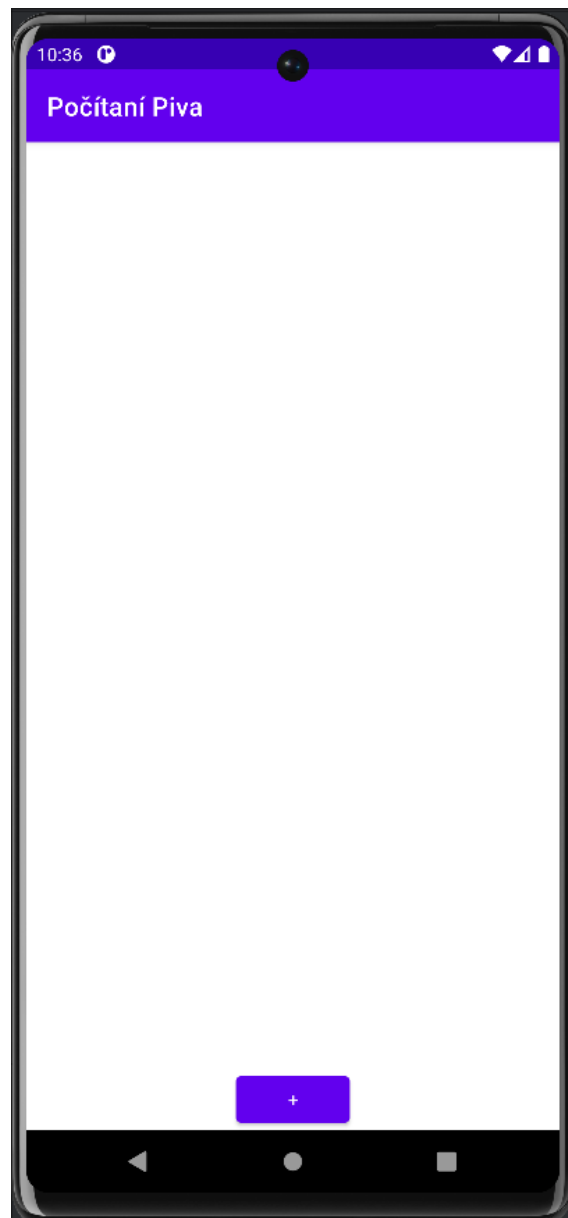
```

```

72         if (success) {
73             Toast.makeText(AddItemActivity.this, "Data saved successfully",
74                 Toast.LENGTH_SHORT).show();
75             finish();
76         } else {
77             Toast.makeText(AddItemActivity.this, "Failed to save data", Toast.
78                 LENGTH_SHORT).show();
79         } else {
80             Toast.makeText(AddItemActivity.this, "Please enter amount", Toast.
81                 LENGTH_SHORT).show();
82         }
83     }
84 }

```

Listing 2: MainActivity.java



3 EditItemActivity

```

1 package com.example.xpmp_04;
2

```

```

3 import android.os.Bundle;
4 import android.view.View;
5 import android.widget.AdapterView;
6 import android.widget.Button;
7 import android.widget.EditText;
8 import android.widget.Spinner;
9 import android.widget.Toast;
10
11 import androidx.appcompat.app.AppCompatActivity;
12
13 import java.util.ArrayList;
14 import java.util.List;
15
16 public class EditItemActivity extends AppCompatActivity {
17
18     private Spinner idsSpinner;
19     private Spinner editStupneSpinner;
20     private EditText editAmountEditText;
21     private Button upravitButton;
22     private Button deleteButton;
23
24     private DBHelper dbHelper;
25
26     @Override
27     protected void onCreate(Bundle savedInstanceState) {
28         super.onCreate(savedInstanceState);
29         setContentView(R.layout.edit_item);
30
31         idsSpinner = findViewById(R.id.idsSpinner);
32         editStupneSpinner = findViewById(R.id.editstupneSpinner);
33         editAmountEditText = findViewById(R.id.editamountEditText);
34         upravitButton = findViewById(R.id.upravitButton);
35         deleteButton = findViewById(R.id.deleteButton);
36
37         dbHelper = new DBHelper(this);
38
39
40         List<String> idList = dbHelper.getAllIDs();
41         ArrayAdapter<String> idAdapter = new ArrayAdapter<>(this, android.R.layout
         .simple_spinner_item, idList);
42         idAdapter.setDropDownViewResource(android.R.layout
         .simple_spinner_dropdown_item);
43         idsSpinner.setAdapter(idAdapter);
44
45
46         int selectedId = getIntent().getIntExtra("selected_id", -1);
47
48
49         if (selectedId != -1) {
50
51             loadItemDataForEdit(selectedId);
52         } else {
53
54             Toast.makeText(this, "Error loading data for editing", Toast.
55             LENGTH_SHORT).show();
56
57             finish();
58
59
60             upravitButton.setOnClickListener(new View.OnClickListener() {
61                 @Override
62                 public void onClick(View v) {
63
64                     int selectedId = Integer.parseInt(idsSpinner.getSelectedItem().
65                     toString());
66
67                     String newStupen = editStupneSpinner.getSelectedItem().toString();
68                     int newAmount = Integer.parseInt(editAmountEditText.getText().
69                     toString());
70
71                     boolean success = dbHelper.updateBeer(selectedId, newStupen,
72                     newAmount);
73                     if (success) {
74                         Toast.makeText(EditItemActivity.this, "Položka byla úspěšně
75                         upravena", Toast.LENGTH_SHORT).show();

```

```

72         finish();
73     } else {
74         Toast.makeText(EditItemActivity.this, "Nepodařilo se upravit
položku", Toast.LENGTH_SHORT).show();
75     }
76 }
77 });
78
79
80 deleteButton.setOnClickListener(new View.OnClickListener() {
81     @Override
82     public void onClick(View v) {
83
84         int selectedId = Integer.parseInt(idsSpinner.getSelectedItem().
toString());
85         boolean success = dbHelper.deleteBeer(selectedId);
86         if (success) {
87             Toast.makeText(EditItemActivity.this, "Položka byla úspěšně
smazána", Toast.LENGTH_SHORT).show();
88             finish();
89         } else {
90             Toast.makeText(EditItemActivity.this, "Nepodařilo se smazat
položku", Toast.LENGTH_SHORT).show();
91         }
92     }
93 });
94 }
95
96 private void loadItemDataForEdit(int selectedId) {
97     BeerItem selectedItem = dbHelper.getBeerItemById(selectedId);
98     if (selectedItem != null) {
99         editAmountEditText.setText(String.valueOf(selectedItem.getAmount()));
100
101         List<String> stupneList = new ArrayList<>();
102         stupneList.add("10 ");
103         stupneList.add("11 ");
104         stupneList.add("12 ");
105         stupneList.add("13 ");
106         stupneList.add("14 ");
107         stupneList.add("15 ");
108
109         ArrayAdapter<String> stupneAdapter = new ArrayAdapter<>(this, android.
R.layout.simple_spinner_item, stupneList);
110         stupneAdapter.setDropDownViewResource(android.R.layout.
simple_spinner_dropdown_item);
111         editStupneSpinner.setAdapter(stupneAdapter);
112
113         int index = stupneAdapter.getPosition(selectedItem.getStupen());
114         if (index != -1) {
115             editStupneSpinner.setSelection(index);
116         } else {
117             editStupneSpinner.setSelection(0);
118         }
119     } else {
120         Toast.makeText(this, "Error loading data for editing", Toast.
LENGTH_SHORT).show();
121         finish();
122     }
123 }
124
125 }

```

Listing 3: EditItemActivity.java

