

Bài 1 :

Kết quả chạy chương trình :

- Nhập thông tin người dùng và nhấn nút Add

The screenshot shows the Android Studio interface with the project 'Student_management' open. The code editor displays the MainActivity.kt file. The right side of the screen shows a list view of student records. A new student record is being added at the top of the list, with fields for MSSV (20225859) and Họ tên (Tran Doan Huy). Buttons for 'Add' and 'Update' are visible.

Mã số sinh viên	Họ tên
20225859	Tran Doan Huy
Nguyen Van A	20200001
Tran Thi B	20200002
Le Van C	20200003
Pham Thi D	20200004
Hoang Van E	20200005

The screenshot shows the Android Studio interface with the project 'Student_management' open. The code editor displays the MainActivity.kt file. The right side of the screen shows a list view of student records. A specific student record (Tran Doan Huy) is selected, indicated by a blue selection bar around its row. The list includes other students: Nguyen Van A, Tran Thi B, Le Van C, Pham Thi D, and Hoang Van E.

Mã số sinh viên	Họ tên
20225859	Tran Doan Huy
Nguyen Van A	20200001
Tran Thi B	20200002
Le Van C	20200003
Pham Thi D	20200004
Hoang Van E	20200005

- Xóa phần tử

The screenshot shows the Android Studio interface. On the left is the project structure for 'Student_management'. The main area displays the 'MainActivity.kt' code. The code handles student deletion logic and updates a list view. On the right, a preview window shows a student list screen with fields for 'Mã số sinh viên' and 'Họ tên', and a list of students: Nguyễn Văn A (20200001), Trần Thị B (20200002), Lê Văn C (20200003), Phạm Thị D (20200004), and Hoàng Văn E (20200005). A bottom toolbar includes icons for back, forward, and search.

```

13     class MainActivity : AppCompatActivity() {
14         private fun deleteStudent(position: Int) {
15             selectedPosition = -1
16
17             // Nếu xóa dòng phía trên dòng dang chon > selectedPosition
18             if (position < selectedPosition) {
19                 selectedPosition--
20
21                 // Xóa khỏi danh sách
22                 studentList.removeAt(index = position)
23                 adapter.notifyDataSetChanged()
24
25                 Toast.makeText(context = this, text = "Đã xóa", duration = 1
26             }
27
28             // Xóa text và focus vào MSSV
29             private fun clearInput() {
30                 edtMSSV.setText("")
31                 edtName.setText("")
32                 edtMSSV.requestFocus()
33             }
34
35             // =====
36             // ADAPTER CUSTOM CHO LISTVIEW
37             // =====
38
39             <> class StudentAdapter(
40                 private val context: AppCompatActivity,
41                 private val list: List<StudentModel>,
42                 private val onDeleteClick: (Int) -> Unit // Callback khi b
43
44             <> class MainActivity {
45                 private var selectedPosition = -1
46
47                 // ...
48
49                 // ...
50
51                 // ...
52
53                 // ...
54
55                 // ...
56
57             }
58
59             // =====
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64                 private val context: AppCompatActivity,
65                 private val list: List<StudentModel>,
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68             <> class MainActivity {
69                 private var selectedPosition = -1
70
71                 // ...
72
73                 // ...
74
75                 // ...
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77                 // ...
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79                 // ...
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81                 // ...
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83                 // ...
84
85             }
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87             // ...
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89             // ...
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91             // ...
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93             // ...
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```

- Update thông tin sinh viên

This screenshot is similar to the previous one but shows a different state. The student list now includes a new entry: 'Hoàng Văn E123'. The rest of the interface and code are identical to the first screenshot.

```

class MainActivity : AppCompatActivity() {
    private fun deleteStudent(position: Int) {
        selectedPosition = -1
    }
}

```

The screenshot shows the Android Studio interface with the project structure on the left and the code editor on the right. The code editor displays the `MainActivity.kt` file. The UI preview on the right shows a list of students with fields for ID and name, and buttons for adding and updating.

Bài 2 :

Kết quả chạy chương trình :

```

package com.example.gmail.adapter
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.BaseAdapter
import android.widget.ImageView
import android.widget.TextView
import com.example.gmail.R
import com.example.gmail.model.Gmail

```

The screenshot shows the Android Studio interface with the project structure on the left and the code editor on the right. The code editor displays the `GmailAdapter.kt` file. The UI preview on the right shows a list of notifications from Facebook, Shopee, GitHub, Figma, and StackOverflow.

Bài 3 :

Kết quả chạy chương trình :

The screenshot shows the Android Studio interface with the code editor open to `MainActivity.kt`. The code implements a RecyclerView to display app recommendations. A separate window shows the Google Play Store search results for "play store".

```
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val rvMain: RecyclerView = findViewById(R.id.rvMain)

        // 1. Tạo dãy dữ liệu giả
        // List DỰC (Type = 0) - Cho phần "Suggested for you"
        // Cấu trúc: Tên, Rating, Size, Icon, Type
        val listsSuggested = listOf(
            AppModel(title = "Asphalt 9: Legends", rating = "4.7", size = "1.2 GB", icon = "asphalt9legends.png", type = "Action - Role Playing"),
            AppModel(title = "Shadow Fight Arena", rating = "4.8", size = "1.5 GB", icon = "shadowfightarena.png", type = "Action - Role Playing"),
            AppModel(title = "Cyber Hunter", rating = "4.5", size = "1.8 GB", icon = "cyberhunter.png", type = "Action - Role Playing"),
            AppModel(title = "Dungeon Hunter 6", rating = "4.6", size = "2.1 GB", icon = "dunghunter6.png", type = "Action - Role Playing")
        )

        // List NGANG (Type = 1) - Cho phần "Recommended for you"
        val listRecommended = listOf(
            AppModel(title = "CapCut - Video Editor", rating = "4.3", size = "1.8 GB", icon = "capcutvideoeditor.png", type = "Video & Photo"),
            AppModel(title = "Spotify: Music & Podcasts", rating = "4.4", size = "1.2 GB", icon = "spotifymusicpodcasts.png", type = "Music & Podcasts"),
            AppModel(title = "Notion - Notes Organizer", rating = "4.2", size = "2.8 GB", icon = "notionnotesorganizer.png", type = "Productivity"),
            AppModel(title = "Snapsseed", rating = "4.4", size = "28 MB", icon = "snapsseed.png", type = "Photo & Video"),
            AppModel(title = "Pinterest", rating = "4.6", size = "72 MB", icon = "pinterest.png", type = "Social Networking")
        )

        // List các Category (Nhóm)
        val categories = listOf(
            CategoryModel(title = "Suggested for you", apps = listSuggested),
            CategoryModel(title = "Recommended for you", apps = listRecommended),
            CategoryModel(title = "New & Updated", apps = listSuggested)
        )
    }
}
```

The Play Store search results window displays several recommended apps:

- Asphalt 9: Legends (Action - Role Playing)
- Shadow Fight Arena (Action - Role Playing)
- Cyber Hunter (Action - Role Playing)
- Dungeon Hunter 6 (Action - Role Playing)
- CapCut - Video Editor (Video & Photo)
- Spotify: Music & Podcasts (Music & Podcasts)
- Notion - Notes Organizer (Productivity)
- Snapsseed (Photo & Video)
- Pinterest (Social Networking)