Báo cáo công việc đã làm

Kính gửi: Thầy Kiều Tuấn Dũng

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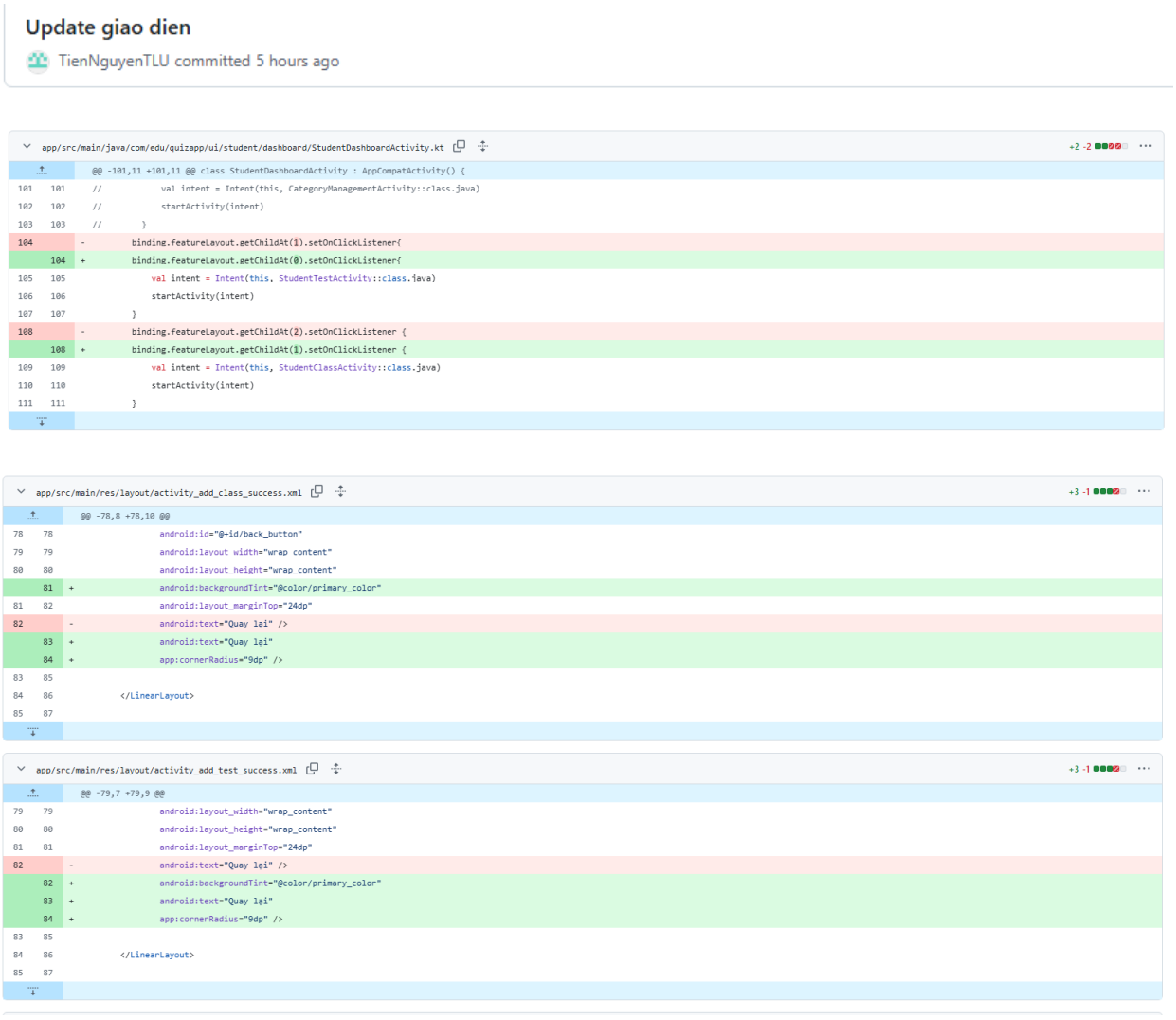
Sinh viên lớp 64CNTT1-NB

Sau đây là trình bày báo cáo công việc làm bài tập lớn môn lập trình ứng dụng di động:

Làm phần giao diện



Update giao dien

TienNguyenTLU committed 5 hours ago

app/src/main/java/com/edu/quizapp/ui/student/dashboard/StudentDashboardActivity.kt +2 -2

```
@@ -101,11 +101,11 @@ class StudentDashboardActivity : AppCompatActivity() {
101 101    //            val intent = Intent(this, CategoryManagementActivity::class.java)
102 102    //            startActivity(intent)
103 103    //        }
104        -       binding.featureLayout.getChildAt(1).setOnClickListener{
    104    +       binding.featureLayout.getChildAt(0).setOnClickListener{
105 105            val intent = Intent(this, StudentTestActivity::class.java)
106 106            startActivity(intent)
107 107        }
108        -       binding.featureLayout.getChildAt(2).setOnClickListener {
    108    +       binding.featureLayout.getChildAt(1).setOnClickListener {
109 109            val intent = Intent(this, StudentClassActivity::class.java)
110 110            startActivity(intent)
111 111        }
```

app/src/main/res/layout/activity_add_class_success.xml +3 -1

```
@@ -78,8 +78,10 @@
78 78                 android:id="@+id/back_button"
79 79                 android:layout_width="wrap_content"
80 80                 android:layout_height="wrap_content"
    81   +             android:backgroundTint="@color/primary_color"
81 82                 android:layout_marginTop="24dp"
82       -             android:text="Quay lại" />
    83   +             android:text="Quay lại"
    84   +             app:cornerRadius="9dp" />
83 85
84 86         </LinearLayout>
85 87
```

app/src/main/res/layout/activity_add_test_success.xml +3 -1

```
@@ -79,7 +79,9 @@
79 79                 android:layout_width="wrap_content"
80 80                 android:layout_height="wrap_content"
81 81                 android:layout_marginTop="24dp"
82       -             android:text="Quay lại" />
    82   +             android:backgroundTint="@color/primary_color"
    83   +             android:text="Quay lại"
    84   +             app:cornerRadius="9dp" />
83 85
84 86         </LinearLayout>
85 87
```

app/src/main/res/layout/activity_change_password_student.xml +5 -3

```
@@ -93,17 +93,19 @@
                android:layout_height="wrap_content"
                android:layout_marginTop="24dp"
                android:text="Đổi mật khẩu"
-               app:layout_constraintTop_toBottomOf="@id/confirm_password_layout"
+               android:backgroundTint="@color/primary_color"
+               app:cornerRadius="9dp"
+               app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
-               app:layout_constraintEnd_toEndOf="parent" />
+               app:layout_constraintTop_toBottomOf="@id/confirm_password_layout" />

            <TextView
                android:id="@+id/forgot_password_link"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginTop="16dp"
                android:text="Quên mật khẩu?"
-               android:textColor="@color/purple_500"
+               android:textColor="@color/black"
                app:layout_constraintTop_toBottomOf="@id/change_password_button"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintEnd_toEndOf="parent" />
```

app/src/main/res/layout/activity_change_password_teacher.xml +7 -5

```
@@ -92,21 +92,23 @@
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginTop="24dp"
+               android:backgroundTint="@color/primary_color"
                android:text="Đổi mật khẩu"
-               app:layout_constraintTop_toBottomOf="@id/confirm_password_layout"
+               app:cornerRadius="9dp"
+               app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
-               app:layout_constraintEnd_toEndOf="parent" />
+               app:layout_constraintTop_toBottomOf="@id/confirm_password_layout" />

            <TextView
                android:id="@+id/forgot_password_link"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginTop="16dp"
                android:text="Quên mật khẩu?"
-               android:textColor="@color/purple_500"
-               app:layout_constraintTop_toBottomOf="@id/change_password_button"
+               android:textColor="@color/black"
                app:layout_constraintStart_toStartOf="parent"
-               app:layout_constraintEnd_toEndOf="parent" />
+               app:layout_constraintEnd_toEndOf="parent"
+               app:layout_constraintTop_toBottomOf="@id/change_password_button" />

        </androidx.constraintlayout.widget.ConstraintLayout>
```

app/src/main/res/layout/activity_class_detail.xml +8 -14

```
@@ -47,9 +47,9 @@
                    android:id="@+id/class_icon"
                    android:layout_width="48dp"
                    android:layout_height="48dp"
-                   android:src="@drawable/ic_class_placeholder"
                    android:layout_marginStart="16dp"
-                   android:layout_marginEnd="16dp" />
+                   android:layout_marginEnd="16dp"
+                   android:src="@drawable/ic_class_placeholder" />

                <TextView
                    android:id="@+id/class_name"
@@ -62,14 +62,6 @@

            </LinearLayout>

-           <ImageView
-               android:id="@+id/class_image"
-               android:layout_width="match_parent"
-               android:layout_height="150dp"
-               android:src="@drawable/ic_class_image"
-               android:layout_marginTop="16dp"
-               android:scaleType="centerCrop" />
-
            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"

@@ -119,20 +111,22 @@
                    android:id="@+id/edit_button"
                    android:layout_width="0dp"
                    android:layout_height="wrap_content"
+                   android:layout_marginEnd="8dp"
                    android:layout_weight="1"
```

app/src/main/res/layout/activity_class_detail.xml +8 -14

```
            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"

@@ -119,20 +111,22 @@
                    android:id="@+id/edit_button"
                    android:layout_width="0dp"
                    android:layout_height="wrap_content"
+                   android:layout_marginEnd="8dp"
                    android:layout_weight="1"
```

```
-                   android:text="Chỉnh sửa"
                    android:backgroundTint="@color/yellow"
+                   android:text="Chỉnh sửa"
                    android:textColor="@color/black"
-                   android:layout_marginEnd="8dp" />
+                   app:cornerRadius="9dp" />

                <Button
                    android:id="@+id/delete_button"
                    android:layout_width="0dp"
                    android:layout_height="wrap_content"
                    android:layout_weight="1"
-                   android:text="Xóa"
                    android:backgroundTint="@color/red"
-                   android:textColor="@color/black" />
+                   android:text="Xóa"
+                   android:textColor="@color/black"
+                   app:cornerRadius="9dp" />
            </LinearLayout>

        </LinearLayout>
```

app/src/main/res/layout/activity_class_management.xml +1 -1

```
@@ -92,7 +92,7 @@
92  92              <ImageView
93  93                  android:layout_width="60dp"
94  94                  android:layout_height="60dp"
95      -               android:src="@drawable/ic_class" />
    95  +               android:src="@drawable/ic_class_placeholder" />
96  96
97  97              <TextView
98  98                  android:layout_width="wrap_content"
```

app/src/main/res/layout/activity_create_questions_from_file.xml +8 -4

```
@@ -55,7 +55,9 @@
55  55                  android:id="@+id/select_file_button"
56  56                  android:layout_width="match_parent"
57  57                  android:layout_height="wrap_content"
58      -               android:text="Chọn file" />
    58  +               android:text="Chọn file"
    59  +               android:backgroundTint="@color/primary_color"
    60  +               app:cornerRadius="9dp" />
59  61
60  62              <TextView
61  63                  android:id="@+id/file_path_text_view"
@@ -125,9 +127,10 @@
125 127             android:layout_height="wrap_content"
126 128             android:layout_marginEnd="8dp"
127 129             android:layout_weight="1"
128     -           android:backgroundTint="@color/gray"
    130 +           android:backgroundTint="@android:color/darker_gray"
129 131             android:text="Quay lại"
```

app/src/main/res/layout/activity_edit_class_success.xml +3 -1

```
@@ -79,7 +79,9 @@
79  79                  android:layout_width="wrap_content"
80  80                  android:layout_height="wrap_content"
81  81                  android:layout_marginTop="24dp"
82      -               android:text="Quay lại" />
    82  +               android:text="Quay lại"
    83  +               android:backgroundTint="@color/primary_color"
    84  +               app:cornerRadius="9dp" />
83  85
84  86          </LinearLayout>
85  87
```

app/src/main/res/layout/activity_edit_profile_student.xml +2

```
@@ -145,9 +145,11 @@
145 145                 android:layout_width="match_parent"
146 146                 android:layout_height="wrap_content"
147 147                 android:layout_marginTop="24dp"
    148 +               android:backgroundTint="@color/primary_color"
148 149                 android:padding="12dp"
149 150                 android:text="Lưu thay đổi"
150 151                 android:textSize="16sp"
    152 +               app:cornerRadius="9dp"
151 153                 app:layout_constraintEnd_toEndOf="parent"
152 154                 app:layout_constraintStart_toStartOf="parent"
153 155                 app:layout_constraintTop_toBottomOf="@id/edit_address_layout" />
```

app/src/main/res/layout/activity_statistical_class.xml +102

```
@@ -0,0 +1,102 @@
+ <?xml version="1.0" encoding="utf-8"?>
+ <androidx.constraintlayout.widget.ConstraintLayout 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:layout_width="match_parent"
+     android:layout_height="match_parent"
+     android:background="#F5F5F5">
+
+     <include
+         android:id="@+id/top_bar_include"
+         layout="@layout/top_bar"
+         app:layout_constraintTop_toTopOf="parent"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintEnd_toEndOf="parent" />
+
+     <ImageButton
+         android:id="@+id/button_back"
+         android:layout_width="wrap_content"
+         android:layout_height="wrap_content"
+         android:layout_marginStart="16dp"
+         android:layout_marginTop="16dp"
+         android:background="?attr/selectableItemBackgroundBorderless"
+         android:contentDescription="Quay lại"
+         android:src="@drawable/ic_back"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintTop_toBottomOf="@id/top_bar_include" />
+
+     <TextView
+         android:id="@+id/title_stats_by_class"
+         android:layout width="0dp"
```

app/src/main/res/layout/activity_statistical_test.xml +179

```
@@ -0,0 +1,179 @@
+ <?xml version="1.0" encoding="utf-8"?>
+ <ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
+     android:layout_width="match_parent"
+     android:layout_height="match_parent"
+     xmlns:app="http://schemas.android.com/apk/res-auto"
+     android:background="#F5F5F5">
+
+     <LinearLayout
+         android:layout_width="match_parent"
+         android:layout_height="wrap_content"
+         android:orientation="vertical"
+         android:padding="16dp">
+
+         <LinearLayout
+             android:layout_width="match_parent"
+             android:layout_height="wrap_content"
+             android:orientation="horizontal"
+             android:gravity="center_vertical"
+             android:layout_marginBottom="16dp">
+
+             <ImageButton
+                 android:id="@+id/button_back"
+                 android:layout_width="wrap_content"
+                 android:layout_height="wrap_content"
+                 android:background="?attr/selectableItemBackgroundBorderless"
+                 android:contentDescription="Quay lại"
+                 android:src="@drawable/ic_back"
+                 android:layout_marginEnd="16dp" />
+
+             <TextView
```

app/src/main/res/layout/activity_student_dashboard.xml +1 -22

```
@@ -71,27 +71,6 @@
        android:layout_marginTop="32dp"
        app:layout_constraintTop_toBottomOf="@id/join_class_button">

-       <LinearLayout
-           android:layout_width="0dp"
-           android:layout_height="wrap_content"
-           android:layout_weight="1"
-           android:orientation="vertical"
-           android:gravity="center">
-
-           <ImageView
-               android:layout_width="60dp"
-               android:layout_height="60dp"
-               android:src="@drawable/ic_category" />
-
-           <TextView
-               android:layout_width="wrap_content"
-               android:layout_height="wrap_content"
-               android:text="Danh mục"
-               android:textSize="14sp"
-               android:layout_marginTop="8dp" />
-
-       </LinearLayout>
-
        <LinearLayout
            android:layout_width="0dp"
            android:layout_height="wrap_content"
@@ -123,7 +102,7 @@
```

app/src/main/res/layout/activity_test_management.xml +44 -29

```
@@ -1,10 +1,11 @@
 <?xml version="1.0" encoding="utf-8"?>
 <androidx.constraintlayout.widget.ConstraintLayout
-    xmlns:app="http://schemas.android.com/apk/res-auto"
     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:layout_width="match_parent"
     android:layout_height="match_parent"
+    android:background="#F8F8F8"
     tools:context=".ui.teacher.dashboard.test.TestManagementActivity">

     <include
@@ -14,68 +15,82 @@
         app:layout_constraintStart_toStartOf="parent"
         app:layout_constraintTop_toTopOf="parent" />

-    <EditText
-        android:id="@+id/search_bar"
+    <androidx.cardview.widget.CardView
+        android:id="@+id/search_card"
         android:layout_width="0dp"
-        android:layout_height="40dp"
+        android:layout_height="wrap_content"
         android:layout_marginStart="16dp"
         android:layout_marginTop="16dp"
         android:layout_marginEnd="16dp"
-        android:background="@drawable/search_bar_background"
-        android:drawableStart="@drawable/ic_search"
-        android:drawablePadding="8dp"
-        android:hint="Tìm kiếm"
-        android:paddingStart="16dp"
-        android:paddingEnd="16dp"
```

app/src/main/res/layout/analystic_class_item.xml +39

```
@@ -0,0 +1,39 @@
+ <?xml version="1.0" encoding="utf-8"?>
+ <androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"
+     xmlns:app="http://schemas.android.com/apk/res-auto"
+     android:layout_width="match_parent"
+     android:layout_height="wrap_content"
+     android:layout_margin="8dp"
+     app:cardCornerRadius="8dp"
+     app:cardElevation="2dp"
+     android:clickable="true"
+     android:focusable="true"
+     android:foreground="?attr/selectableItemBackground">
+
+     <LinearLayout
+         android:layout_width="match_parent"
+         android:layout_height="wrap_content"
+         android:orientation="vertical"
+         android:padding="16dp">
+
+         <TextView
+             android:id="@+id/class_name"
+             android:layout_width="wrap_content"
+             android:layout_height="wrap_content"
+             android:text="Lớp: Toán 01"
+             android:textSize="18sp"
+             android:textStyle="bold"
+             android:textColor="#333333"
+             android:layout_marginBottom="4dp" />
+
+         <TextView
+             android:id="@+id/class_code"
```

app/src/main/res/layout/analystic_list.xml +107

```
@@ -0,0 +1,107 @@
+ <?xml version="1.0" encoding="utf-8"?>
+ <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
+     android:layout_width="match_parent"
+     android:layout_height="match_parent"
+     xmlns:app="http://schemas.android.com/apk/res-auto">
+     <include
+         android:id="@+id/top_bar_include"
+         layout="@layout/top_bar"
+         app:layout_constraintTop_toTopOf="parent"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintEnd_toEndOf="parent" />
+
+     <LinearLayout
+         android:layout_width="0dp"
+         android:layout_height="wrap_content"
+         android:orientation="horizontal"
+         android:layout_marginTop="24dp"
+         android:paddingStart="16dp"
+         android:paddingEnd="16dp"
+         app:layout_constraintTop_toBottomOf="@id/top_bar_include"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintEnd_toEndOf="parent">
+
+         <androidx.cardview.widget.CardView
+             android:id="@+id/stats_by_class_card"
+             android:layout_width="0dp"
+             android:layout_height="wrap_content"
+             android:layout_weight="1"
+             android:layout_marginEnd="8dp"
+             app:cardCornerRadius="8dp"
+             app:cardElevation="4dp"
+             android:clickable="true"
```

app/src/main/res/layout/analystic_test_item.xml +39

```
@@ -0,0 +1,39 @@
+ <?xml version="1.0" encoding="utf-8"?>
+ <androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"
+     xmlns:app="http://schemas.android.com/apk/res-auto"
+     android:layout_width="match_parent"
+     android:layout_height="wrap_content"
+     android:layout_margin="8dp"
+     app:cardCornerRadius="8dp"
+     app:cardElevation="2dp"
+     android:clickable="true"
+     android:focusable="true"
+     android:foreground="?attr/selectableItemBackground">
+
+     <LinearLayout
+         android:layout_width="match_parent"
+         android:layout_height="wrap_content"
+         android:orientation="vertical"
+         android:padding="16dp">
+
+         <TextView
+             android:id="@+id/test_name"
+             android:layout_width="wrap_content"
+             android:layout_height="wrap_content"
+             android:text="Bài kiểm tra giữa kỳ 1"
+             android:textSize="18sp"
+             android:textStyle="bold"
+             android:textColor="#333333"
+             android:layout_marginBottom="4dp" />
+
+         <TextView
+             android:id="@+id/test_date"
+             android:layout_width="wrap_content"
+             android:layout_height="wrap_content"
+             android:text="Người tạo"
```

app/src/main/res/layout/analystic_test_list.xml +56

```
@@ -0,0 +1,56 @@
+ <?xml version="1.0" encoding="utf-8"?>
+ <androidx.constraintlayout.widget.ConstraintLayout 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:layout_width="match_parent"
+     android:layout_height="match_parent"
+     android:background="#F5F5F5">
+ <!--    tools:context=".ui.teacher.dashboard.stats.StatsByClassActivity">-->
+
+     <include
+         android:id="@+id/top_bar_include"
+         layout="@layout/top_bar"
+         app:layout_constraintTop_toTopOf="parent"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintEnd_toEndOf="parent" />
+
+     <TextView
+         android:id="@+id/title_stats_by_class"
+         android:layout_width="wrap_content"
+         android:layout_height="wrap_content"
+         android:layout_marginTop="24dp"
+         android:text="Thống kê theo bài kiểm tra"
+         android:textSize="24sp"
+         android:textStyle="bold"
+         android:textColor="#333333"
+         app:layout_constraintTop_toBottomOf="@id/top_bar_include"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintEnd_toEndOf="parent" />
+
+     <androidx.recyclerview.widget.RecyclerView
```

app/src/main/res/layout/anylistic_class_list.xml +55

```
@@ -0,0 +1,55 @@
+ <?xml version="1.0" encoding="utf-8"?>
+ <androidx.constraintlayout.widget.ConstraintLayout 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:layout_width="match_parent"
+     android:layout_height="match_parent"
+     android:background="#F5F5F5">
+ <!--    tools:context=".ui.teacher.dashboard.stats.StatsByClassActivity">-->
+
+     <include
+         android:id="@+id/top_bar_include"
+         layout="@layout/top_bar"
+         app:layout_constraintTop_toTopOf="parent"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintEnd_toEndOf="parent" />
+
+     <TextView
+         android:id="@+id/title_stats_by_class"
+         android:layout_width="wrap_content"
+         android:layout_height="wrap_content"
+         android:layout_marginTop="24dp"
+         android:text="Thống kê theo lớp"
+         android:textSize="24sp"
+         android:textStyle="bold"
+         android:textColor="#333333"
+         app:layout_constraintTop_toBottomOf="@id/top_bar_include"
+         app:layout_constraintStart_toStartOf="parent"
+         app:layout_constraintEnd_toEndOf="parent" />
+
+     <androidx.recyclerview.widget.RecyclerView
```

app/src/main/res/layout/edit_profile_toolbar.xml +2 -3

```
@@ -1,11 +1,10 @@
  <?xml version="1.0" encoding="utf-8"?>
- <androidx.appcompat.widget.Toolbar
-     xmlns:android="http://schemas.android.com/apk/res/android"
+ <androidx.appcompat.widget.Toolbar xmlns:android="http://schemas.android.com/apk/res/android"
      xmlns:app="http://schemas.android.com/apk/res-auto"
      android:id="@+id/toolbar"
      android:layout_width="match_parent"
      android:layout_height="?attr/actionBarSize"
-     android:background="@color/accentColor"
+     android:background="@color/primary_color"
      android:elevation="4dp"
      android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
      app:popupTheme="@style/ThemeOverlay.AppCompat.Light">
```

app/src/main/res/layout/item_class_student.xml +16 -9

```
@@ -6,20 +6,23 @@
      android:layout_height="wrap_content"
      android:layout_margin="8dp"
      app:cardCornerRadius="12dp"
-     app:cardElevation="4dp"
-     android:backgroundTint="#87CEEB">
+     app:cardElevation="4dp">

      <LinearLayout
          android:layout_width="match_parent"
          android:layout_height="wrap_content"
          android:orientation="horizontal"
-         android:padding="16dp">
+         android:padding="16dp"
+         android:gravity="center_vertical">
```

Chức năng tìm kiếm lớp

app/src/main/java/com/edu/quizapp/ui/student/dashboard/classes/StudentClassActivity.kt +19 -4

```
@@ -2,6 +2,8 @@ package com.edu.quizapp.ui.student.dashboard.classes
 
 import android.content.Intent
 import android.os.Bundle
+import android.text.Editable
+import android.text.TextWatcher
 import android.util.Log
 import androidx.appcompat.app.AppCompatActivity
 import androidx.lifecycle.ViewModelProvider
@@ -31,6 +33,7 @@ class StudentClassActivity : AppCompatActivity() {
         setupViewModel()
         setupRecyclerView()
         setupBottomNavigation()
+        setupSearchBar()
 
         val studentId = FirebaseAuth.getInstance().currentUser?.uid ?: ""
         viewModel.loadStudentClasses(studentId)
@@ -47,25 +50,37 @@ class StudentClassActivity : AppCompatActivity() {
     private fun setupViewModel() {
         viewModel = ViewModelProvider(this)[StudentClassViewModel::class.java]
-        teacherRepository = TeacherRepository() // Khởi tạo teacherRepository ở đây
+        teacherRepository = TeacherRepository()
         setupObservers()
     }
 
     private fun setupObservers() {
-        viewModel.classes.observe(this) { classes ->
+        // Cập nhật adapter với danh sách lớp học đã lọc
+        viewModel.filteredClasses.observe(this) { classes ->
             adapter.updateClasses(classes)
         }
     }
 
     private fun setupRecyclerView() {
-        adapter = StudentClassAdapter(emptyList(), teacherRepository) // Truyền teacherRepository vào adapter
+        adapter = StudentClassAdapter(emptyList(), teacherRepository)
         binding.classRecyclerView.layoutManager = LinearLayoutManager(this)
         binding.classRecyclerView.adapter = adapter
         Log.d("StudentClassActivity", "setupRecyclerView() called, adapter set: $adapter")
     }
 
+    private fun setupSearchBar() {
+        binding.searchBar.addTextChangedListener(object : TextWatcher {
+            override fun beforeTextChanged(s: CharSequence?, start: Int, count: Int, after: Int) {}
+
+            override fun onTextChanged(s: CharSequence?, start: Int, before: Int, count: Int) {
+                viewModel.filterClasses(s.toString())
+            }
+
+            override fun afterTextChanged(s: Editable?) {}
+        })
+    }
+
     private fun setupBottomNavigation() {
-        // Thiết lập bottom navigation
         binding.bottomNavigation.setOnItemSelectedListener { item ->
             when (item.itemId) {
                 R.id.navigation_home -> {
```

app/src/main/java/com/edu/quizapp/ui/student/dashboard/classes/StudentClassActivity.kt +19 -4

```
    private fun setupObservers() {
-       viewModel.classes.observe(this) { classes ->
+       // Cập nhật adapter với danh sách lớp học đã lọc
+       viewModel.filteredClasses.observe(this) { classes ->
            adapter.updateClasses(classes)
        }
    }

    private fun setupRecyclerView() {
-       adapter = StudentClassAdapter(emptyList(), teacherRepository) // Truyền teacherRepository vào adapter
+       adapter = StudentClassAdapter(emptyList(), teacherRepository)
        binding.classRecyclerView.layoutManager = LinearLayoutManager(this)
        binding.classRecyclerView.adapter = adapter
        Log.d("StudentClassActivity", "setupRecyclerView() called, adapter set: $adapter")
    }

+   private fun setupSearchBar() {
+       binding.searchBar.addTextChangedListener(object : TextWatcher {
+           override fun beforeTextChanged(s: CharSequence?, start: Int, count: Int, after: Int) {}
+
+           override fun onTextChanged(s: CharSequence?, start: Int, before: Int, count: Int) {
+               viewModel.filterClasses(s.toString())
+           }
+
+           override fun afterTextChanged(s: Editable?) {}
+       })
+   }

    private fun setupBottomNavigation() {
-       // Thiết lập bottom navigation
        binding.bottomNavigation.setOnItemSelectedListener { item ->
            when (item.itemId) {
                R.id.navigation_home -> {
```

```
@@ -5,7 +5,7 @@ import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData
import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
- import com.edu.quizapp.data.models.Classes // Thêm dòng import này
+ import com.edu.quizapp.data.models.Classes
import com.edu.quizapp.data.repository.ClassRepository
import com.edu.quizapp.data.repository.StudentRepository
import kotlinx.coroutines.async
@@ -20,18 +20,19 @@ class StudentClassViewModel : ViewModel() {
    private val _classes = MutableLiveData<List<Classes>>()
    val classes: LiveData<List<Classes>> = _classes

+    private val _filteredClasses = MutableLiveData<List<Classes>>()
+    val filteredClasses: LiveData<List<Classes>> = _filteredClasses
+
    fun loadStudentClasses(studentId: String) {
        viewModelScope.launch {
            try {
                val student = studentRepository.getStudentById(studentId)
                if (student != null) {
                    Log.d("StudentClassViewModel", "Student found: $student")
                    Log.d("StudentClassViewModel", "Student studentsId: ${student.studentsId}")

-                    // First try to get classes from the student's classes list
                    val studentClasses = mutableListOf<Classes>()

-                    // If student has classes list, use it
                    if (student.classes.isNotEmpty()) {
                        Log.d("StudentClassViewModel", "Using student's classes list: ${student.classes}")
                        val deferredClasses = student.classes.map { classId ->
@@ -48,20 +49,17 @@ class StudentClassViewModel : ViewModel() {
                                val updatedClasses = student.classes.toMutableList()
                                updatedClasses.add(classItem.classId)
@@ -73,17 +71,26 @@ class StudentClassViewModel : ViewModel() {
                            }
                        }
                    }

-
                    _classes.value = studentClasses
+                    _filteredClasses.value = studentClasses
                    Log.d("StudentClassViewModel", "Total classes found: ${studentClasses.size}")
                } else {
                    Log.d("StudentClassViewModel", "Student not found for id: $studentId")
                    _classes.value = emptyList()
+                    _filteredClasses.value = emptyList()
                }
            } catch (e: Exception) {
                Log.e("StudentClassViewModel", "Error loading student classes: ${e.message}")
                _classes.value = emptyList()
+                _filteredClasses.value = emptyList()
            }
        }
    }

+
+    fun filterClasses(query: String) {
+        val allClasses = _classes.value ?: emptyList()
+        val filteredList = allClasses.filter { it.className.contains(query, ignoreCase = true) }
+        _filteredClasses.value = filteredList
+    }
}
```

app/src/main/java/com/edu/quizapp/ui/student/dashboard/classes/StudentClassViewModel.kt +19 -12

Chức năng thống kê điểm theo lớp

app/src/main/java/com/edu/quizapp/data/repository/StatisticalRepository.kt +48

```
@@ -0,0 +1,48 @@
+ package com.edu.quizapp.data.repository
+
+ import com.edu.quizapp.data.models.Classes
+ import com.edu.quizapp.data.models.Result
+ import com.edu.quizapp.data.models.Student
+ import com.edu.quizapp.data.models.Test
+ import com.google.firebase.firestore.FirebaseFirestore
+ import kotlinx.coroutines.tasks.await
+
+ class StatisticalRepository {
+
+     private val db = FirebaseFirestore.getInstance()
+     private val resultsCollection = db.collection("results")
+     private val studentsCollection = db.collection("students")
+     private val testsCollection = db.collection("tests")
+     private val classesCollection = db.collection("classes")
+
+     suspend fun getResultsByClass(classId: String): List<Result> {
+         return resultsCollection.get().await().toObjects(Result::class.java).filter { result ->
+             val student = studentsCollection.document(result.studentId).get().await().toObject(Student::class.java)
+             student?.classes?.contains(classId) == true
+         }
+     }
+
+     suspend fun getStudentName(studentId: String): String? {
+         return studentsCollection.document(studentId).get().await().toObject(Student::class.java)?.name
+     }
+
+     suspend fun getClassName(studentId: String): String? {
+         val student = studentsCollection.document(studentId).get().await().toObject(Student::class.java)
+         return student?.classes?.mapNotNull { classId ->
+             classesCollection.document(classId).get().await().toObject(Classes::class.java)?.className
+         }?.firstOrNull()
+     }
+
+     suspend fun getTestName(testId: String): String? {
+         return testsCollection.document(testId).get().await().toObject(Test::class.java)?.testName
+     }
+
+     suspend fun getTestsByClass(classId: String): List<Test> {
+         return testsCollection.whereEqualTo("classId", classId).get().await().toObjects(Test::class.java)
+     }
+
+     suspend fun hasResultsForTest(testId: String): Boolean {
+         val results = resultsCollection.whereEqualTo("testId", testId).get().await().toObjects(Result::class.java)
```

```
@@ -0,0 +1,44 @@
+ package com.edu.quizapp.adapter.teacher.analystic
+
+ import android.view.LayoutInflater
+ import android.view.View
+ import android.view.ViewGroup
+ import android.widget.TextView
+ import androidx.recyclerview.widget.RecyclerView
+ import com.edu.quizapp.R
+ import com.edu.quizapp.data.models.Classes
+
+ class AnalysticByClassAdapter(
+     private var classes: List<Classes>,
+     private val onItemClick: (Classes) -> Unit // Thêm listener
+ ) : RecyclerView.Adapter<AnalysticByClassAdapter.AnalysticByClassViewHolder>() {
+
+     class AnalysticByClassViewHolder(itemView: View) : RecyclerView.ViewHolder(itemView) {
+         val className: TextView = itemView.findViewById(R.id.class_name)
+         val classCode: TextView = itemView.findViewById(R.id.class_code)
+
+         fun bind(classes: Classes) {
+             className.text = "Lớp: ${classes.className}"
+             classCode.text = "Mã lớp: ${classes.classCode}"
+         }
+     }
+
+     override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): AnalysticByClassViewHolder {
+         val itemView = LayoutInflater.from(parent.context).inflate(R.layout.analystic_class_item, parent, false)
+         return AnalysticByClassViewHolder(itemView)
+     }
+
+     override fun onBindViewHolder(holder: AnalysticByClassViewHolder, position: Int) {
+         holder.bind(classes[position])
+         holder.itemView.setOnClickListener {
+             onItemClick(classes[position]) // Gọi listener khi item được click
+         }
+     }
+
+     override fun getItemCount(): Int = classes.size
+
+     fun updateData(newList: List<Classes>) {
+         classes = newList
+         notifyDataSetChanged()
+     }
+ }
```

```
@@ -0,0 +1,48 @@
+ package com.edu.quizapp.data.repository
+
+ import com.edu.quizapp.data.models.Classes
+ import com.edu.quizapp.data.models.Result
+ import com.edu.quizapp.data.models.Student
+ import com.edu.quizapp.data.models.Test
+ import com.google.firebase.firestore.FirebaseFirestore
+ import kotlinx.coroutines.tasks.await
+
+ class StatisticalRepository {
+
+     private val db = FirebaseFirestore.getInstance()
+     private val resultsCollection = db.collection("results")
+     private val studentsCollection = db.collection("students")
+     private val testsCollection = db.collection("tests")
+     private val classesCollection = db.collection("classes")
+
+     suspend fun getResultsByClass(classId: String): List<Result> {
+         return resultsCollection.get().await().toObjects(Result::class.java).filter { result ->
+             val student = studentsCollection.document(result.studentId).get().await().toObject(Student::class.java)
+             student?.classes?.contains(classId) == true
+         }
+     }
+
+     suspend fun getStudentName(studentId: String): String? {
+         return studentsCollection.document(studentId).get().await().toObject(Student::class.java)?.name
+     }
+
+     suspend fun getClassName(studentId: String): String? {
+         val student = studentsCollection.document(studentId).get().await().toObject(Student::class.java)
+         return student?.classes?.mapNotNull { classId ->
+             classesCollection.document(classId).get().await().toObject(Classes::class.java)?.className
+         }?.firstOrNull()
+     }
+
+     suspend fun getTestName(testId: String): String? {
+         return testsCollection.document(testId).get().await().toObject(Test::class.java)?.testName
+     }
+
+     suspend fun getTestsByClass(classId: String): List<Test> {
+         return testsCollection.whereEqualTo("classId", classId).get().await().toObjects(Test::class.java)
+     }
+
+     suspend fun hasResultsForTest(testId: String): Boolean {
+         val results = resultsCollection.whereEqualTo("testId", testId).get().await().toObjects(Result::class.java)
```

```
@@ -0,0 +1,70 @@
+ package com.edu.quizapp.ui.teacher.dashboard.analystic
+
+ import android.content.Intent
+ import android.os.Bundle
+ import android.util.Log
+ import androidx.appcompat.app.AppCompatActivity
+ import com.edu.quizapp.R
+ import com.edu.quizapp.databinding.ActivityAnalysticBinding
+ import com.edu.quizapp.ui.teacher.dashboard.TeacherDashboardActivity
+ import com.edu.quizapp.ui.teacher.dashboard.analystic.byclass.AnalysticByClassActivity
+ //import com.edu.quizapp.ui.teacher.dashboard.analystic.bytest.AnalysticByTestActivity
+ import com.edu.quizapp.ui.teacher.profile.TeacherProfileActivity
+ import com.google.firebase.auth.FirebaseAuth
+
+ class AnalysticActivity : AppCompatActivity() {
+
+     private lateinit var binding: ActivityAnalysticBinding
+
+     override fun onCreate(savedInstanceState: Bundle?) {
+         super.onCreate(savedInstanceState)
+         binding = ActivityAnalysticBinding.inflate(layoutInflater)
+         setContentView(binding.root)
+         setupClickListeners()
+
+         setupBottomNavigationTeacher()
+         binding.backButton.setOnClickListener {
+             finish()
+         }
+     }
+
+     private fun setupClickListeners() {
+         binding.statsByClassCard.setOnClickListener {
+             Log.d("AnalysticActivity", "statsByClassCard clicked")
+
+             // Lấy teacherId từ FirebaseAuth
+             val teacherId = FirebaseAuth.getInstance().currentUser?.uid ?: ""
+
+             if (teacherId.isNotEmpty()) {
+                 val intent = Intent(this, AnalysticByClassActivity::class.java)
+                 intent.putExtra("teacherId", teacherId)
+                 startActivity(intent)
+             } else {
+                 // Xử lý trường hợp không có teacherId (ví dụ: hiển thị thông báo lỗi)
+                 Log.e("AnalysticActivity", "Teacher ID is missing.")
+             }
```

```
@@ -0,0 +1,74 @@
+ package com.edu.quizapp.ui.teacher.dashboard.analystic.byclass
+
+ import android.content.Intent
+ import android.os.Bundle
+ import android.util.Log
+ import android.view.View
+ import androidx.appcompat.app.AppCompatActivity
+ import androidx.lifecycle.ViewModelProvider
+ import androidx.recyclerview.widget.LinearLayoutManager
+ import com.edu.quizapp.R
+ import com.edu.quizapp.adapter.teacher.analystic.AnalysticByClassAdapter
+ import com.edu.quizapp.data.models.Classes
+ import com.edu.quizapp.databinding.ActivityAnalysticByClassBinding
+
+ class AnalysticByClassActivity : AppCompatActivity() {
+
+     private lateinit var binding: ActivityAnalysticByClassBinding
+     private lateinit var viewModel: AnalysticByClassViewModel
+     private lateinit var adapter: AnalysticByClassAdapter
+
+     override fun onCreate(savedInstanceState: Bundle?) {
+         super.onCreate(savedInstanceState)
+         binding = ActivityAnalysticByClassBinding.inflate(layoutInflater)
+         setContentView(binding.root)
+
+         val teacherId = intent.getStringExtra("teacherId") ?: ""
+
+         viewModel = ViewModelProvider(this)[AnalysticByClassViewModel::class.java]
+
+         setupRecyclerView()
+         observeViewModel()
+         setupListeners()
+
+         viewModel.setTeacherId(teacherId)
+         viewModel.fetchClasses()
+     }
+
+     private fun setupRecyclerView() {
+         adapter = AnalysticByClassAdapter(emptyList()) { classes -> // Thêm listener
+             // Xử lý sự kiện click ở đây
+             val intent = Intent(this, StatisticalClassActivity::class.java)
+             intent.putExtra("classId", classes.classId) // Truyền classId vào intent
+             startActivity(intent)
```

```
+         adapter = AnalysticByClassAdapter(emptyList()) { classes -> // Thêm listener
+             // Xử lý sự kiện click ở đây
+             val intent = Intent(this, StatisticalClassActivity::class.java)
+             intent.putExtra("classId", classes.classId) // Truyền classId vào intent
+             startActivity(intent)
+         }
+         binding.recyclerViewClassListStats.layoutManager = LinearLayoutManager(this)
+         binding.recyclerViewClassListStats.adapter = adapter
+     }
+
+     private fun observeViewModel() {
+         viewModel.classes.observe(this) { classes ->
+             if (classes.isNullOrEmpty()) {
+                 binding.recyclerViewClassListStats.visibility = View.GONE
+                 binding.emptyClassListStats.visibility = View.VISIBLE
+             } else {
+                 binding.recyclerViewClassListStats.visibility = View.VISIBLE
+                 binding.emptyClassListStats.visibility = View.GONE
+                 adapter.updateData(classes)
+             }
+         }
+
+         viewModel.errorMessage.observe(this) { errorMessage ->
+             if (!errorMessage.isNullOrEmpty()) {
+                 Log.e("AnalysticByClassActivity", "Error: $errorMessage")
+                 // Hiển thị thông báo lỗi cho người dùng nếu cần thiết
+             }
+         }
+     }
+
+     private fun setupListeners() {
+         binding.backButton.setOnClickListener {
+             finish()
+         }
+     }
+ }
```

```kotlin
package com.edu.quizapp.ui.teacher.dashboard.analystic.byclass

import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData
import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import com.edu.quizapp.data.models.Classes
import com.edu.quizapp.data.repository.ClassRepository
import kotlinx.coroutines.launch

class AnalysticByClassViewModel : ViewModel() {

    private val _classes = MutableLiveData<List<Classes>>()
    val classes: LiveData<List<Classes>> = _classes

    private val _errorMessage = MutableLiveData<String?>()
    val errorMessage: LiveData<String?> = _errorMessage

    private val classRepository = ClassRepository()
    private var teacherId: String? = null

    fun setTeacherId(teacherId: String) {
        this.teacherId = teacherId
    }

    fun fetchClasses() {
        viewModelScope.launch {
            try {
                if (teacherId.isNullOrEmpty()) {
                    _errorMessage.value = "Teacher ID is missing."
                    _classes.value = emptyList()
                    return@launch
                }

                val allClasses = classRepository.getAllClasses()
                val teacherClasses = allClasses.filter { it.teacherId == teacherId }
                _classes.value = teacherClasses
                _errorMessage.value = null // Clear any previous error
            } catch (e: Exception) {
```

app/src/main/java/com/edu/quizapp/ui/teacher/dashboard/analystic/byclass/StatisticalClassActivity.kt +133

```kotlin
package com.edu.quizapp.ui.teacher.dashboard.analystic.byclass

import android.os.Bundle
import android.util.Log
import android.view.View
import android.widget.TableLayout
import android.widget.TableRow
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import androidx.lifecycle.ViewModelProvider
import androidx.lifecycle.lifecycleScope
import com.edu.quizapp.R
import com.edu.quizapp.data.models.Result
import com.edu.quizapp.databinding.ActivityStatisticalClassBinding
import kotlinx.coroutines.launch

class StatisticalClassActivity : AppCompatActivity() {

    private lateinit var binding: ActivityStatisticalClassBinding
    private lateinit var viewModel: StatisticalClassViewModel

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        binding = ActivityStatisticalClassBinding.inflate(layoutInflater)
        setContentView(binding.root)

        val classId = intent.getStringExtra("classId") ?: ""

        viewModel = ViewModelProvider(this)[StatisticalClassViewModel::class.java]

        setupListeners()
        observeViewModel(classId)

        viewModel.fetchResultsByClass(classId)
        viewModel.fetchTestsByClass(classId)
    }

    private fun setupListeners() {
```

app/src/main/java/com/edu/quizapp/ui/teacher/dashboard/analystic/byclass/StatisticalClassViewModel.kt +48

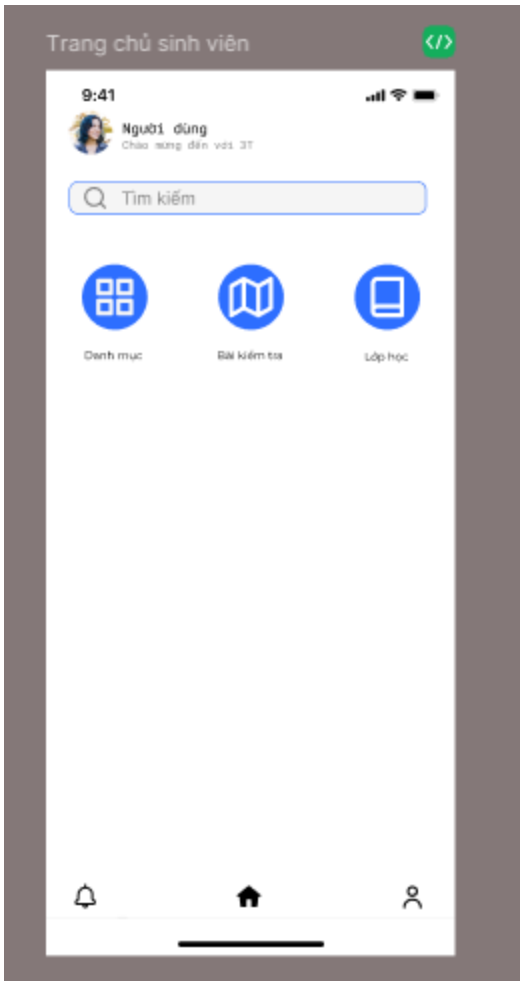
```
@@ -0,0 +1,48 @@
+ package com.edu.quizapp.ui.teacher.dashboard.analystic.byclass
+
+ import androidx.lifecycle.LiveData
+ import androidx.lifecycle.MutableLiveData
+ import androidx.lifecycle.ViewModel
+ import androidx.lifecycle.viewModelScope
+ import com.edu.quizapp.data.models.Result
+ import com.edu.quizapp.data.models.Test
+ import com.edu.quizapp.data.repository.StatisticalRepository
+ import kotlinx.coroutines.launch
+
+ class StatisticalClassViewModel(val repository: StatisticalRepository = StatisticalRepository()) : ViewModel() {
+
+     private val _results = MutableLiveData<List<Result>>()
+     val results: LiveData<List<Result>> = _results
+
+     private val _errorMessage = MutableLiveData<String?>()
+     val errorMessage: LiveData<String?> = _errorMessage
+
+     private val _tests = MutableLiveData<List<Test>>()
+     val tests: LiveData<List<Test>> = _tests
+
+     fun fetchResultsByClass(classId: String) {
+         viewModelScope.launch {
+             try {
+                 val results = repository.getResultsByClass(classId)
+                 _results.value = results
+                 _errorMessage.value = null
+             } catch (e: Exception) {
+                 _errorMessage.value = "Failed to fetch results: ${e.message}"
+                 _results.value = emptyList()
+             }
```

Viết báo cáo

Vẽ figma cho chức năng đăng nhập, dashboard, lớp học, bài kiểm tra của người dùng sinh viên

Register

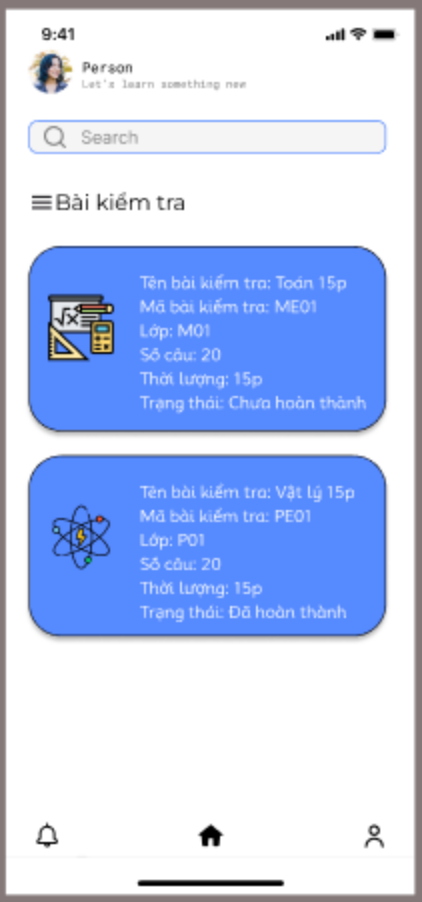
Login


Trang chủ sinh viên
9:41
Người dùng
Chào mừng đến với ST
Tìm kiếm
Danh mục
Bài kiểm tra
Lớp học

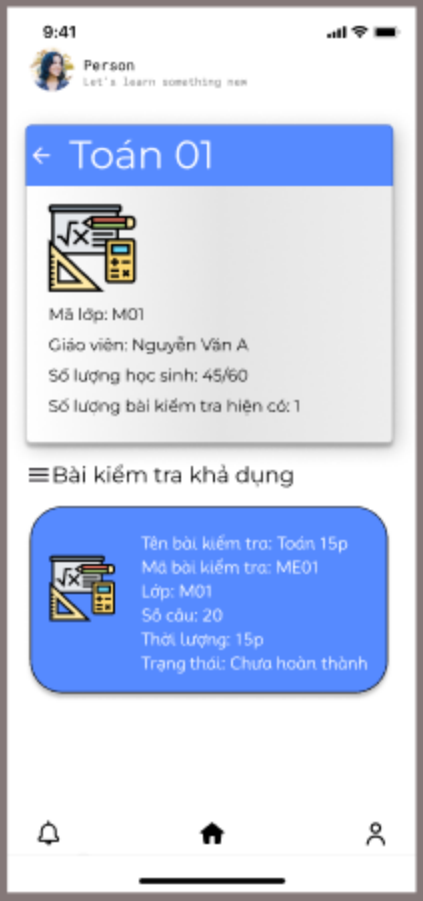
Class

9:41
Person
Let's learn something new
Search
Lớp học
Lớp: Toán 01
Mã lớp: M01
Giáo viên: Nguyễn Văn A
Lớp: Vật lí 01
Mã lớp: P01
Giáo viên: Nguyễn Văn B

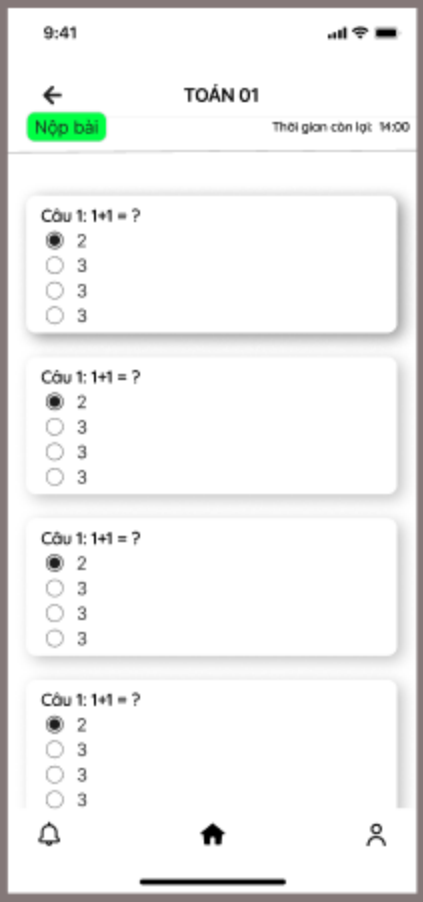
Exam


9:41
Person
Let's learn something new
Search
Bài kiểm tra
Tên bài kiểm tra: Toán 15p
Mã bài kiểm tra: ME01
Lớp: M01
Số câu: 20
Thời lượng: 15p
Trạng thái: Chưa hoàn thành
Tên bài kiểm tra: Vật lý 15p
Mã bài kiểm tra: PE01
Lớp: P01
Số câu: 20
Thời lượng: 15p
Trạng thái: Đã hoàn thành

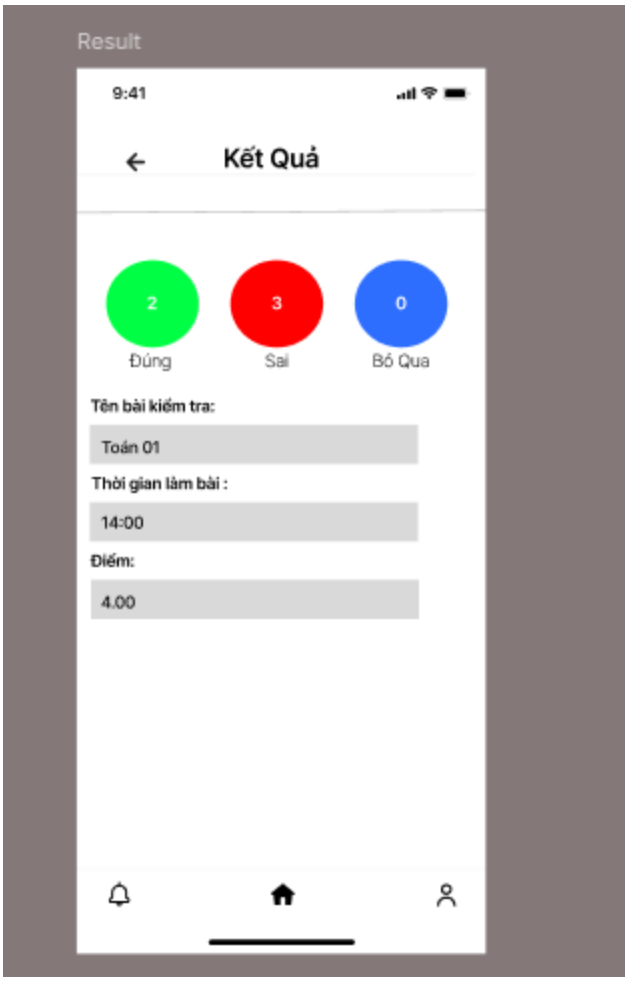
Inside_class



Inside_exam



Result


9:41
Kết Quả
2
Đúng
3
Sai
0
Bỏ Qua
Tên bài kiểm tra:
Toán 01
Thời gian làm bài :
14:00
Điểm:
4.00