

Tổng hợp mã nguồn dự án: AnTamViecLam

.gitignore

```
<<<<<<< HEAD
```

```
local.properties
```

```
>>>>>> origin/main
```

README.md

```
# AnTamViecLam
```

```
<<<<<<< HEAD
```

```
=====
```

```
...
```

```
├── data/
│   ├── model/          // Data classes (User.kt, Job.kt, Review.kt...)
│   ├── network/        // Các lớp tương tác với Firebase
│   │   ├── FirestoreClient.kt
│   │   └── FirebaseAuthClient.kt
│   └── repository/      // Nơi tổng hợp dữ liệu từ các nguồn
│       ├── AuthRepository.kt
│       ├── JobRepository.kt
│       ├── UserRepository.kt
│       └── impl/        // Các lớp implementation của interface trên
│           ├── AuthRepositoryImpl.kt
│           ├── JobRepositoryImpl.kt
│           └── UserRepositoryImpl.kt
├── di/                  // Dependency Injection (Hilt or Koin)
│   └── AppModule.kt     // Cung cấp các dependency chung
├── ui/                  // Chứa toàn bộ UI, chia theo từng feature
│   ├── auth/            // Feature Đăng ký, Đăng nhập
│   │   ├── LoginFragment.kt
│   │   ├── RegisterFragment.kt
│   │   └── AuthViewModel.kt
│   └── main/            // Màn hình chính chứa Bottom Navigation
│       └── MainActivity.kt
```

```
|
|
|— home/          // Feature Trang chủ (danh sách công việc)
|   |— HomeFragment.kt
|   |— HomeViewModel.kt
|   |   └─ adapter/
|   |       └─ JobAdapter.kt
|
|— map/           // Feature Bản đồ công việc
|   |— MapViewFragment.kt
|   |   └─ MapViewModel.kt
|
|— job_details/   // Feature Chi tiết công việc
|   |— JobDetailsFragment.kt
|   |   └─ JobDetailsViewModel.kt
|
|— profile/       // Feature Quản lý hồ sơ
|   |— ProfileFragment.kt
|   |— EditProfileFragment.kt
|   |   └─ ProfileViewModel.kt
|
|— bhxh/         // Feature BHXH
|   |— BhxhFragment.kt
|   |— BhxhViewModel.kt
|   |   └─ BhxhInfoDetailsFragment.kt
|
|— chat/          // Feature Chat
|   |— ChatListFragment.kt // Danh sách các cuộc trò chuyện
|   |— ChatDetailFragment.kt // Màn hình chat 1-1
|   |   └─ ChatViewModel.kt
|
|— posting/       // Feature Đăng tin của NTD
|   |— CreateJobFragment.kt
|   |   └─ CreateJobViewModel.kt
|
|— base/          // Các lớp base cho Activity, Fragment, ViewModel
|   |— BaseActivity.kt
|   |   └─ BaseViewModel.kt
|
|— utils/         // Các lớp tiện ích dùng chung
|   |— Constants.kt // Chứa các hằng số
|   |— Extensions.kt // Các extension function (e.g., View.show())
|   |— LocationHelper.kt // Lớp helper xử lý location
|   |   └─ DateTimeUtils.kt // Lớp helper xử lý ngày giờ
```

...

>>>>>> 78d0e2f10b7c9453339a3b4ce51be88ed643f0a5

build.gradle.kts

// Top-level build file where you can add configuration options common to all sub-projects/modules.

```
plugins {  
    alias(libs.plugins.android.application) apply false  
    alias(libs.plugins.kotlin.android) apply false  
    // alias(libs.plugins.kotlin.compose) apply false  
    alias(libs.plugins.android.library) apply false  
    alias(libs.plugins.hilt) apply false  
    alias(libs.plugins.ksp) apply false  
    alias(libs.plugins.google.services) apply false  
    alias(libs.plugins.firebase.crashlytics) apply false  
    alias(libs.plugins.android.secrets.gradle.plugin) apply false  
}
```

gradle.properties

```
# Project-wide Gradle settings.  
# IDE (e.g. Android Studio) users:  
# Gradle settings configured through the IDE *will override*  
# any settings specified in this file.  
# For more details on how to configure your build environment visit  
# http://www.gradle.org/docs/current/userguide/build_environment.html  
# Specifies the JVM arguments used for the daemon process.  
# The setting is particularly useful for tweaking memory settings.  
org.gradle.jvmargs=-Xmx2048m -Dfile.encoding=UTF-8  
# When configured, Gradle will run in incubating parallel mode.  
# This option should only be used with decoupled projects. For more details, visit  
# https://developer.android.com/r/tools/gradle-multi-project-decoupled-projects  
# org.gradle.parallel=true  
# AndroidX package structure to make it clearer which packages are bundled with the  
# Android operating system, and which are packaged with your app's APK  
# https://developer.android.com/topic/libraries/support-library/androidx-rn  
android.useAndroidX=true  
# Kotlin code style for this project: "official" or "obsolete":  
kotlin.code.style=official  
# Enables namespacing of each library's R class so that its R class includes only the  
# resources declared in the library itself and none from the library's dependencies,  
# thereby reducing the size of the R class for that library
```

```
android.nonTransitiveRClass=true
android.useAndroidX=true
android.enableJetifier=true
org.gradle.jvmargs=-Xmx4096m
org.gradle.parallel=true
org.gradle.caching=true
```

gradlew

```
#!/bin/sh
```

```
#
# Copyright © 2015 the original authors.
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#   https://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
#
# SPDX-License-Identifier: Apache-2.0
#

#####
#####
#
#  Gradle start up script for POSIX generated by Gradle.
#
#  Important for running:
#
#  (1) You need a POSIX-compliant shell to run this script. If your /bin/sh is
#      noncompliant, but you have some other compliant shell such as ksh or
#      bash, then to run this script, type that shell name before the whole
#      command line, like:
#
#          ksh Gradle
#
#  Busybox and similar reduced shells will NOT work, because this script
```

```

# requires all of these POSIX shell features:
#   * functions;
#   * expansions «$var», «${var}», «${var:-default}», «${var+SET}»,
#     «${var#prefix}», «${var%suffix}», and «$( cmd )»;
#   * compound commands having a testable exit status, especially «case»;
#   * various built-in commands including «command», «set», and «ulimit».
#
# Important for patching:
#
# (2) This script targets any POSIX shell, so it avoids extensions provided
#     by Bash, Ksh, etc; in particular arrays are avoided.
#
# The "traditional" practice of packing multiple parameters into a
# space-separated string is a well documented source of bugs and security
# problems, so this is (mostly) avoided, by progressively accumulating
# options in "$@", and eventually passing that to Java.
#
# Where the inherited environment variables (DEFAULT_JVM_OPTS, JAVA_OPTS,
# and GRADLE_OPTS) rely on word-splitting, this is performed explicitly;
# see the in-line comments for details.
#
# There are tweaks for specific operating systems such as AIX, CygWin,
# Darwin, MinGW, and NonStop.
#
# (3) This script is generated from the Groovy template
#     https://github.com/gradle/gradle/blob/HEAD/platforms/jvm/plugins-
# application/src/main/resources/org/gradle/api/internal/plugins/unixStartScript.txt
#     within the Gradle project.
#
# You can find Gradle at https://github.com/gradle/gradle/.
#
#####
#####

# Attempt to set APP_HOME

# Resolve links: $0 may be a link
app_path=$0

# Need this for daisy-chained symlinks.
while
APP_HOME=${app_path%"${app_path##*/}"} # leaves a trailing /; empty if no leading
path

```

```

[ -h "$app_path" ]
do
  ls=${ ls -ld "$app_path" }
  link=${ls#*' -> '}
  case $link in
    /*) app_path=$link ;; #(
    *) app_path=$APP_HOME$link ;;
  esac
done

# This is normally unused
# shellcheck disable=SC2034
APP_BASE_NAME=${0##*/}
# Discard cd standard output in case $CDPATH is set
(https://github.com/gradle/gradle/issues/25036)
APP_HOME=${ cd -P "${APP_HOME:-.}" > /dev/null && printf '%s\n' "$PWD" ) || exit

# Use the maximum available, or set MAX_FD != -1 to use that value.
MAX_FD=maximum

warn () {
  echo "$*"
} >&2

die () {
  echo
  echo "$*"
  echo
  exit 1
} >&2

# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case "$( uname )" in
  CYGWIN*) cygwin=true ;; #(
  Darwin*) darwin=true ;; #(
  MSYS* | MINGW*) msys=true ;; #(
  NONSTOP*) nonstop=true ;;
esac

```

```
CLASSPATH="\\"
```

```
# Determine the Java command to use to start the JVM.
```

```
if [ -n "$JAVA_HOME" ] ; then
```

```
    if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
```

```
        # IBM's JDK on AIX uses strange locations for the executables
```

```
        JAVACMD=$JAVA_HOME/jre/sh/java
```

```
    else
```

```
        JAVACMD=$JAVA_HOME/bin/java
```

```
    fi
```

```
    if [ ! -x "$JAVACMD" ] ; then
```

```
        die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
```

```
Please set the JAVA_HOME variable in your environment to match the
location of your Java installation."
```

```
    fi
```

```
else
```

```
    JAVACMD=java
```

```
    if ! command -v java >/dev/null 2>&1
```

```
    then
```

```
        die "ERROR: JAVA_HOME is not set and no 'java' command could be found in your
PATH."
```

```
Please set the JAVA_HOME variable in your environment to match the
location of your Java installation."
```

```
    fi
```

```
fi
```

```
# Increase the maximum file descriptors if we can.
```

```
if ! "$cygwin" && ! "$darwin" && ! "$nonstop" ; then
```

```
    case $MAX_FD in #(
```

```
        max*)
```

```
        # In POSIX sh, ulimit -H is undefined. That's why the result is checked to see if it
worked.
```

```
        # shellcheck disable=SC2039,SC3045
```

```
        MAX_FD=$( ulimit -H -n ) ||
```

```
            warn "Could not query maximum file descriptor limit"
```

```
    esac
```

```
    case $MAX_FD in #(
```

```
        " | soft) ;; #(
```

```
        *)
```

```
        # In POSIX sh, ulimit -n is undefined. That's why the result is checked to see if it worked.
```

```

    # shellcheck disable=SC2039,SC3045
    ulimit -n "$MAX_FD" ||
        warn "Could not set maximum file descriptor limit to $MAX_FD"
esac
fi

# Collect all arguments for the java command, stacking in reverse order:
# * args from the command line
# * the main class name
# * -classpath
# * -D...appname settings
# * --module-path (only if needed)
# * DEFAULT_JVM_OPTS, JAVA_OPTS, and GRADLE_OPTS environment variables.

# For Cygwin or MSYS, switch paths to Windows format before running java
if "$cygwin" || "$msys" ; then
    APP_HOME=$( cygpath --path --mixed "$APP_HOME" )
    CLASSPATH=$( cygpath --path --mixed "$CLASSPATH" )

    JAVACMD=$( cygpath --unix "$JAVACMD" )

    # Now convert the arguments - kludge to limit ourselves to /bin/sh
    for arg do
        if
            case $arg in
                -*) false ;;
                /*) t=${arg#/} t=/${t%%/*}      # looks like a POSIX filepath
                    [ -e "$t" ] ;;
                *) false ;;
            esac
        then
            arg=$( cygpath --path --ignore --mixed "$arg" )
        fi
        # Roll the args list around exactly as many times as the number of
        # args, so each arg winds up back in the position where it started, but
        # possibly modified.
        #
        # NB: a `for` loop captures its iteration list before it begins, so
        # changing the positional parameters here affects neither the number of
        # iterations, nor the values presented in `arg`.
        shift          # remove old arg
        set -- "$@" "$arg" # push replacement arg
    done

```


fi

Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this script.

DEFAULT_JVM_OPTS="-Xmx64m" "-Xms64m"

Collect all arguments for the java command:

* DEFAULT_JVM_OPTS, JAVA_OPTS, and optsEnvironmentVar are not allowed to contain shell fragments,

and any embedded shellness will be escaped.

* For example: A user cannot expect \${Hostname} to be expanded, as it is an environment variable and will be

treated as '\${Hostname}' itself on the command line.

```
set -- \
  "-Dorg.gradle.appname=$APP_BASE_NAME" \
  -classpath "$CLASSPATH" \
  -jar "$APP_HOME/gradle/wrapper/gradle-wrapper.jar" \
  "$@"
```

Stop when "xargs" is not available.

if ! command -v xargs >/dev/null 2>&1

then

die "xargs is not available"

fi

Use "xargs" to parse quoted args.

#

With -n1 it outputs one arg per line, with the quotes and backslashes removed.

#

In Bash we could simply go:

#

readarray ARGS <{(xargs -n1 <<<"\$var")}&&

set -- "\${ARGS[@]}" "\$@"

#

but POSIX shell has neither arrays nor command substitution, so instead we

post-process each arg (as a line of input to sed) to backslash-escape any

character that might be a shell metacharacter, then use eval to reverse

that process (while maintaining the separation between arguments), and wrap

the whole thing up as a single "set" statement.

#

This will of course break if any of these variables contains a newline or

```
# an unmatched quote.
```

```
#
```

```
eval "set -- ${  
    printf '%s\n' "$DEFAULT_JVM_OPTS $JAVA_OPTS $GRADLE_OPTS" |  
    xargs -n1 |  
    sed 's~[^-[:alnum:]+,./:=@_]~\\&~g; ' |  
    tr '\n' ' '  
}" "$@"
```

```
exec "$JAVACMD" "$@"
```

gradlew.bat

```
@rem
```

```
@rem Copyright 2015 the original author or authors.
```

```
@rem
```

```
@rem Licensed under the Apache License, Version 2.0 (the "License");
```

```
@rem you may not use this file except in compliance with the License.
```

```
@rem You may obtain a copy of the License at
```

```
@rem
```

```
@rem https://www.apache.org/licenses/LICENSE-2.0
```

```
@rem
```

```
@rem Unless required by applicable law or agreed to in writing, software
```

```
@rem distributed under the License is distributed on an "AS IS" BASIS,
```

```
@rem WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
@rem See the License for the specific language governing permissions and
```

```
@rem limitations under the License.
```

```
@rem
```

```
@rem SPDX-License-Identifier: Apache-2.0
```

```
@rem
```

```
@if "%DEBUG%"=="" @echo off
```

```
@rem
```

```
#####
```

```
#####
```

```
@rem
```

```
@rem Gradle startup script for Windows
```

```
@rem
```

```
@rem
```

```
#####
```

```
#####
```

```
@rem Set local scope for the variables with windows NT shell
if "%OS%"=="Windows_NT" setlocal
```

```
set DIRNAME=%~dp0
if "%DIRNAME%"=="" set DIRNAME=.
@rem This is normally unused
set APP_BASE_NAME=%~n0
set APP_HOME=%DIRNAME%
```

```
@rem Resolve any "." and ".." in APP_HOME to make it shorter.
for %%i in ("%APP_HOME%") do set APP_HOME=%%~fi
```

```
@rem Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to
pass JVM options to this script.
set DEFAULT_JVM_OPTS="-Xmx64m" "-Xms64m"
```

```
@rem Find java.exe
if defined JAVA_HOME goto findJavaFromJavaHome
```

```
set JAVA_EXE=java.exe
%JAVA_EXE% -version >NUL 2>&1
if %ERRORLEVEL% equ 0 goto execute
```

```
echo. 1>&2
echo ERROR: JAVA_HOME is not set and no 'java' command could be found in your PATH.
1>&2
echo. 1>&2
echo Please set the JAVA_HOME variable in your environment to match the 1>&2
echo location of your Java installation. 1>&2
```

```
goto fail
```

```
:findJavaFromJavaHome
set JAVA_HOME=%JAVA_HOME:"=%
set JAVA_EXE=%JAVA_HOME%/bin/java.exe
```

```
if exist "%JAVA_EXE%" goto execute
```

```
echo. 1>&2
echo ERROR: JAVA_HOME is set to an invalid directory: %JAVA_HOME% 1>&2
echo. 1>&2
echo Please set the JAVA_HOME variable in your environment to match the 1>&2
echo location of your Java installation. 1>&2
```

```
goto fail
```

```
:execute
```

```
@rem Setup the command line
```

```
set CLASSPATH=
```

```
@rem Execute Gradle
```

```
"%JAVA_EXE%" %DEFAULT_JVM_OPTS% %JAVA_OPTS% %GRADLE_OPTS% "-  
Dorg.gradle.appname=%APP_BASE_NAME%" -classpath "%CLASSPATH%" -jar  
"%APP_HOME%\gradle\wrapper\gradle-wrapper.jar" %*
```

```
:end
```

```
@rem End local scope for the variables with windows NT shell
```

```
if %ERRORLEVEL% equ 0 goto mainEnd
```

```
:fail
```

```
rem Set variable GRADLE_EXIT_CONSOLE if you need the _script_ return code instead of  
rem the _cmd.exe /c_ return code!
```

```
set EXIT_CODE=%ERRORLEVEL%
```

```
if %EXIT_CODE% equ 0 set EXIT_CODE=1
```

```
if not ""=="%GRADLE_EXIT_CONSOLE%" exit %EXIT_CODE%
```

```
exit /b %EXIT_CODE%
```

```
:mainEnd
```

```
if "%OS%"=="Windows_NT" endlocal
```

```
:omega
```

local.properties

```
## This file is automatically generated by Android Studio.
```

```
# Do not modify this file -- YOUR CHANGES WILL BE ERASED!
```

```
#
```

```
# This file should *NOT* be checked into Version Control Systems,
```

```
# as it contains information specific to your local configuration.
```

```
#
```

```
# Location of the SDK. This is only used by Gradle.
```

```
# For customization when using a Version Control System, please read the
```

```
# header note.
```

```
sdk.dir=C:\\Users\\ADMIN\\AppData\\Local\\Android\\Sdk
```

```
CLOUDINARY_CLOUD_NAME=diutnceax
CLOUDINARY_API_KEY=852589725185877
CLOUDINARY_API_SECRET=dyYSiYgvUsn3Tx6HWe47RD1WJNA
```

settings.gradle.kts

```
pluginManagement {
    repositories {
        google()
        mavenCentral()
        gradlePluginPortal()
    }
}

dependencyResolutionManagement {
    repositoriesMode.set(RepositoriesMode.FAIL_ON_PROJECT_REPOS)
    repositories {
        google()
        mavenCentral()
        maven {
            url = uri("https://maven.track-asia.com/repository/maven-public/")
        }
        // If you need to add a custom Maven repository, you would add it here like this:
        // maven {
        //     url = uri("https://your.custom.repository/maven2/")
        // }
    }
}

rootProject.name = "AnTamViecLam"
include(":app")
```

app/.gitignore

```
/build
```

app/build.gradle.kts

```
// Đảm bảo 2 dòng import này ở đầu file
import java.util.Properties
import java.io.FileInputStream
// ĐOẠN CODE LOGIC MỚI
val localProperties = Properties()
val localPropertiesFile = rootProject.file("local.properties")
if (localPropertiesFile.exists()) {
    localProperties.load(FileInputStream(localPropertiesFile))
}
```

```

// Đọc 3 giá trị mới
val cloudName = localProperties.getProperty("CLOUDINARY_CLOUD_NAME") ?: ""
val apiKey = localProperties.getProperty("CLOUDINARY_API_KEY") ?: ""
val apiSecret = localProperties.getProperty("CLOUDINARY_API_SECRET") ?: ""

plugins {
    alias(libs.plugins.android.application)
    alias(libs.plugins.kotlin.android)
    alias(libs.plugins.ksp)
    alias(libs.plugins.firebase.crashlytics)
    alias(libs.plugins.kotlin.compose.compiler)
    alias(libs.plugins.android.secrets.gradle.plugin)
    id("com.google.dagger.hilt.android")
    id("com.google.gms.google-services")
}

android {
    namespace = "com.example.antamvieclam"
    compileSdk = 34

    defaultConfig {
        applicationId = "com.example.antamvieclam"
        minSdk = 24
        targetSdk = 34
        versionCode = 1
        versionName = "1.0"
        testInstrumentationRunner = "androidx.test.runner.AndroidJUnitRunner"

        // Chỉ giữ lại dòng buildConfigField ở đây
        buildConfigField("String", "CLOUDINARY_CLOUD_NAME", "\"\$cloudName\"")
        buildConfigField("String", "CLOUDINARY_API_KEY", "\"\$apiKey\"")
        buildConfigField("String", "CLOUDINARY_API_SECRET", "\"\$apiSecret\"") }

    buildTypes {
        release {
            isMinifyEnabled = false
            proguardFiles(
                getDefaultProguardFile("proguard-android-optimize.txt"),
                "proguard-rules.pro"
            )
        }
    }
}

```

```

compileOptions {
    sourceCompatibility = JavaVersion.VERSION_1_8
    targetCompatibility = JavaVersion.VERSION_1_8
}

kotlinOptions {
    jvmTarget = "1.8"
}
// kotlin {
//     jvmToolchain(17)
// }
buildFeatures {
    compose = true
    buildConfig = true
}
}

dependencies {
    implementation(libs.androidx.navigation.compose)
    implementation("androidx.compose.material:material-icons-extended:1.7.5")
    implementation(libs.androidx.hilt.navigation.compose)
    implementation(libs.androidx.lifecycle.runtime.compose)
    implementation(libs.coil.compose)

    // Jetpack Compose BoM (Bill of Materials) - Giúp quản lý phiên bản các thư viện
    Compose
    val composeBom = platform("androidx.compose:compose-bom:2024.05.00") // Kiểm tra
    phiên bản mới nhất
    implementation(composeBom)
    androidTestImplementation(composeBom)

    // Các thư viện Compose cần thiết
    implementation("androidx.compose.ui:ui")
    implementation("androidx.compose.ui:ui-graphics")
    implementation("androidx.compose.ui:ui-tooling-preview")
    implementation("androidx.compose.material3:material3")

    // Thư viện cần thiết cho setContent
    implementation("androidx.activity:activity-compose:1.9.0") // Kiểm tra phiên bản mới
    nhất

```

```

// TrackAsia Core SDK
implementation("io.github.track-asia:android-sdk:2.0.1")
// TrackAsia Data Models
implementation("io.github.track-asia:android-sdk-geojson:2.0.1")
implementation("io.github.track-asia:android-sdk-turf:2.0.1")
// TrackAsia Plugins
implementation("io.github.track-asia:android-plugin-annotation-v9:2.0.1")
// TrackAsia Navigation
implementation("io.github.track-asia:libandroid-navigation:2.0.0")
implementation("io.github.track-asia:libandroid-navigation-ui:2.0.0")
// Location Services
implementation("com.google.android.gms:play-services-location:21.0.1")

// Phần này của bạn đã đúng, giữ nguyên
implementation(libs.cloudinary.android)
implementation(libs.androidx.core.ktx)
implementation(platform(libs.androidx.compose.bom))
implementation(libs.androidx.compose.ui)
implementation(libs.androidx.compose.ui.graphics)
implementation(libs.androidx.compose.ui.tooling.preview)
implementation(libs.androidx.compose.material3)
implementation(libs.hilt.android)
ksp(libs.hilt.compiler)
implementation(libs.androidx.room.runtime)
implementation(libs.androidx.room.ktx)
ksp(libs.androidx.room.compiler)
implementation(platform(libs.firebase.bom))
implementation(libs.firebase.auth.ktx)
implementation(libs.firebase.firestore.ktx)
implementation(libs.firebase.storage.ktx)
implementation(libs.firebase.messaging.ktx)
implementation(libs.firebase.crashlytics.ktx)
implementation(libs.play.services.auth)
implementation(libs.kotlinx.coroutines.core)
implementation(libs.kotlinx.coroutines.android)
implementation(libs.retrofit)
implementation(libs.converter.gson)
implementation(libs.logging.interceptor)
testImplementation(libs.junit)
androidTestImplementation(libs.androidx.junit)
androidTestImplementation(libs.androidx.espresso.core)
androidTestImplementation(platform(libs.androidx.compose.bom))
debugImplementation(libs.androidx.compose.ui.tooling)

```



```
}
```

```
ksp {  
    arg("hilt.CorrectErrorTypes", "true")  
}
```

app/google-services.json

```
{  
  "project_info": {  
    "project_number": "221272132411",  
    "project_id": "antamvieclam",  
    "storage_bucket": "antamvieclam.firebasestorage.app"  
  },  
  "client": [  
    {  
      "client_info": {  
        "mobilesdk_app_id": "1:221272132411:android:c432fab2ad267434c8451e",  
        "android_client_info": {  
          "package_name": "com.example.antamvieclam"  
        }  
      },  
      "oauth_client": [  
        {  
          "client_id": "221272132411-  
826fghoh93hedghe8598r13fankndh3m.apps.googleusercontent.com",  
          "client_type": 1,  
          "android_info": {  
            "package_name": "com.example.antamvieclam",  
            "certificate_hash": "d874dcf8d6a76c39867094613e7648c3f4854e1e"  
          }  
        },  
        {  
          "client_id": "221272132411-  
q7mkd1kiqvl71k4rjvlm2567vloqci9.apps.googleusercontent.com",  
          "client_type": 3  
        }  
      ],  
      "api_key": [  
        {  
          "current_key": "AIzaSyCuyB9Bi3hWhR3JCuaZ4kZPq1NZ8u6-vEs"  
        }  
      ],  
      "services": {
```

```

    "appinvite_service": {
        "other_platform_oauth_client": [
            {
                "client_id": "221272132411-
q7mkd1kiqvlm71k4rjvlm2567vloqci9.apps.googleusercontent.com",
                "client_type": 3
            }
        ]
    }
}
],
"configuration_version": "1"
}

```

app/proguard-rules.pro

```

# Add project specific ProGuard rules here.
# You can control the set of applied configuration files using the
# proguardFiles setting in build.gradle.
#
# For more details, see
# http://developer.android.com/guide/developing/tools/proguard.html

# If your project uses WebView with JS, uncomment the following
# and specify the fully qualified class name to the JavaScript interface
# class:
#-keepclassmembers class fqcn.of.javascript.interface.for.webview {
#   public *;
#}

# Uncomment this to preserve the line number information for
# debugging stack traces.
#-keepattributes SourceFile,LineNumberTable

# If you keep the line number information, uncomment this to
# hide the original source file name.
#-renamesourcefileattribute SourceFile

```

app/src/androidTest/java/com/example/antamvieclam/ExampleInstrumentedTest.kt

```

package com.example.antamvieclam

```

```

import androidx.test.platform.app.InstrumentationRegistry

```

```

import androidx.test.ext.junit.runners.AndroidJUnit4

import org.junit.Test
import org.junit.runner.RunWith

import org.junit.Assert.*

/**
 * Instrumented test, which will execute on an Android device.
 *
 * See [testing documentation](http://d.android.com/tools/testing).
 */
@RunWith(AndroidJUnit4::class)
class ExampleInstrumentedTest {
    @Test
    fun useAppContext() {
        // Context of the app under test.
        val appContext = InstrumentationRegistry.getInstrumentation().targetContext
        assertEquals("com.example.antamvieclam", appContext.packageName)
    }
}

```

app/src/main/AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:name="com.example.antamvieclam.AnVuiViecApplication"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.AnTamViecLam">
        <activity
            android:name="com.example.antamvieclam.MainActivity"
            android:exported="true"
            android:label="@string/app_name"
            android:theme="@style/Theme.AnTamViecLam">
            <intent-filter>

```

```

        <action android:name="android.intent.action.MAIN" />

        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
</activity>

</application>

</manifest>

```

app/src/main/java/com/example/antamvieclam/AnVuiViecApplication.kt

```
package com.example.antamvieclam
```

```

import android.app.Application
import com.cloudinary.android.MediaManager
import com.example.antamvieclam.BuildConfig
import com.trackasia.android.TrackAsia
import dagger.hilt.android.HiltAndroidApp

```

```
@HiltAndroidApp
```

```
class AnVuiViecApplication : Application() {
```

```

    override fun onCreate() {
        super.onCreate()

```

```

        // --- Khởi tạo TrackAsia với style URL trực tiếp ---
        val styleUrl = "https://maps.track-
asia.com/styles/v1/streets.json?key=52fedb6b306931761836057e5580a05be7"
        TrackAsia.getInstance(applicationContext).equals(styleUrl)

```

```

        // --- Khởi tạo Cloudinary ---
        val config = mutableMapOf<String, String>()
        config["cloud_name"] = BuildConfig.CLOUDINARY_CLOUD_NAME
        config["api_key"] = BuildConfig.CLOUDINARY_API_KEY
        config["api_secret"] = BuildConfig.CLOUDINARY_API_SECRET
        MediaManager.init(this, config)
    }
}

```

app/src/main/java/com/example/antamvieclam/MainActivity.kt

```
package com.example.antamvieclam
```

```
import android.os.Bundle
```

```

import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import com.example.antamvieclam.ui.navigation.RootNavigation
import com.example.antamvieclam.ui.theme.AnTamViecLamTheme
import dagger.hilt.android.AndroidEntryPoint // Import quan trọng

```

```

@AndroidEntryPoint // BẮT BUỘC: Đánh dấu Activity là một entry point cho Hilt
class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContent {
            AnTamViecLamTheme {
                // GỌI AppNavigation() để bắt đầu luồng của ứng dụng
                RootNavigation()
            }
        }
    }
}

```

[app/src/main/java/com/example/antamvieclam/data/model/Job.kt](#)

```

// app/src/main/java/com/example/antamvieclam/data/model/Job.kt
package com.example.antamvieclam.data.model

```

```

import com.google.firebase.firestore.GeoPoint
import com.google.firebase.firestore.ServerTimestamp
import java.util.Date

```

```

enum class PayType {
    PER_HOUR, PER_DAY, PER_PACKAGE
}

```

```

enum class JobStatus {
    OPEN, IN_PROGRESS, COMPLETED, CANCELLED
}

```

```

data class Job(
    var id: String = "",
    val employerId: String = "",
    val employerName: String = "",
    val employerProfileUrl: String? = null,

```

```

    val title: String = "",
    val description: String = "",
    val payRate: Double = 0.0,
    val payType: PayType = PayType.PER_HOUR,
    val location: GeoPoint? = null, // Vị trí chính xác trên bản đồ
    val addressString: String = "", // Địa chỉ dạng text để hiển thị

    var status: JobStatus = JobStatus.OPEN,
    var hiredWorkerId: String? = null,

    @ServerTimestamp
    val createdAt: Date? = null
}

// Dữ liệu cho đơn ứng tuyển
data class JobApplication(
    var id: String = "",
    val jobId: String = "",
    val applicantId: String = "", // workerId
    val employerId: String = "",
    val status: String = "PENDING", // PENDING, ACCEPTED, REJECTED
    @ServerTimestamp
    val appliedAt: Date? = null
)

```

[app/src/main/java/com/example/antamvieclam/data/model/User.kt](#)

```
package com.example.antamvieclam.data.model
```

```
import com.google.firebase.firestore.ServerTimestamp
import java.util.Date
```

```

// Phân loại người dùng
enum class UserType {
    WORKER, EMPLOYER
}

```

```

data class User(
    val uid: String = "",
    val phoneNumber: String? = "",
    val userType: UserType = UserType.WORKER,
    val fullName: String = "",
    var profileImageUrl: String? = null, // URL ảnh từ Cloudinary
    val address: String? = null,

```

```
// Thêm các trường khác theo cấu trúc của bạn
@ServerTimestamp
val createdAt: Date? = null
}
```

app/src/main/java/com/example/antamvieclam/data/repository/AuthRepository.kt

```
package com.example.antamvieclam.data.repository
```

```
import com.google.firebase.auth.AuthCredential
```

```
// Đơn giản hóa sealed class
sealed class AuthResult {
    object Success : AuthResult()
    data class Error(val exception: Exception) : AuthResult()
}
```

```
interface AuthRepository {
    // Hàm mới để đăng nhập với Google credential
    suspend fun signInWithGoogle(credential: AuthCredential): AuthResult
    fun getCurrentUserId(): String?
    fun signOut()
}
```

app/src/main/java/com/example/antamvieclam/data/repository/JobRepository.kt

```
// app/src/main/java/com/example/antamvieclam/data/repository/JobRepository.kt
package com.example.antamvieclam.data.repository
```

```
import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.data.model.JobApplication
import com.google.firebase.firestore.DocumentSnapshot
```

```
interface JobRepository {
    // Task 2.1
    suspend fun postJob(job: Job): Result<Unit>

    // Task 2.2
    suspend fun getJobs(lastVisibleJob: DocumentSnapshot?): Result<Pair<List<Job>,
DocumentSnapshot?>>
    suspend fun getJobDetails(jobId: String): Result<Job>
    suspend fun applyForJob(jobId: String, employerId: String, applicantId: String):
Result<Unit>
}
```

```

suspend fun getJobsByEmployer(employerId: String): Result<List<Job>>
suspend fun getApplicationsForWorker(workerId: String): Result<List<JobApplication>>

}

```

[app/src/main/java/com/example/antamvieclam/data/repository/UserRepository.kt](#)

```

package com.example.antamvieclam.data.repository

```

```

import android.net.Uri
import com.example.antamvieclam.data.model.User

```

```

sealed class ProfileResult {
    object Success : ProfileResult()
    data class Error(val message: String) : ProfileResult()
}

```

```

interface UserRepository {
    suspend fun createUserProfile(user: User, imageUri: Uri?): ProfileResult
    suspend fun getUserProfile(uid: String): User?
    // Thêm các hàm update, delete nếu cần
    suspend fun doesProfileExist(uid: String): Boolean
}

```

[app/src/main/java/com/example/antamvieclam/data/repository/impl/AuthRepositoryImpl.kt](#)

```

package com.example.antamvieclam.data.repository.impl

```

```

import com.example.antamvieclam.data.repository.AuthRepository
import com.example.antamvieclam.data.repository.AuthResult
import com.google.firebase.auth.AuthCredential
import com.google.firebase.auth.FirebaseAuth
import javax.inject.Inject
import kotlin.coroutines.resume
import kotlin.coroutines.suspendCoroutine

```

```

class AuthRepositoryImpl @Inject constructor(
    private val firebaseAuth: FirebaseAuth
) : AuthRepository {

```

```

    override suspend fun signInWithGoogle(credential: AuthCredential): AuthResult {
        return suspendCoroutine { continuation ->

```



```

        firebaseAuth.signInWithCredential(credential)
            .addOnCompleteListener { task ->
                if (task.isSuccessful) {
                    continuation.resume(AuthResult.Success)
                } else {
                    continuation.resume(AuthResult.Error(task.exception!!))
                }
            }
        }
    }
}

override fun getCurrentUserId(): String? {
    return firebaseAuth.currentUser?.uid
}

override fun signOut() {
    firebaseAuth.signOut()
}
}

```

app/src/main/java/com/example/antamvieclam/data/repository/impl/JobRepositoryImpl.kt

```

//
app/src/main/java/com/example/antamvieclam/data/repository/impl/JobRepositoryImpl.kt
package com.example.antamvieclam.data.repository.impl

import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.data.model.JobApplication
import com.example.antamvieclam.data.repository.JobRepository
import com.google.firebase.firestore.DocumentSnapshot
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.Query
import kotlinx.coroutines.tasks.await
import javax.inject.Inject

class JobRepositoryImpl @Inject constructor(
    private val firestore: FirebaseFirestore
) : JobRepository {

    private val jobsCollection = firestore.collection("jobs")
    private val applicationsCollection = firestore.collection("job_applications")
    companion object {

```

```

        private const val PAGE_SIZE = 10L
    }

    override suspend fun getJobsByEmployer(employerId: String): Result<List<Job>> {
        return try {
            val querySnapshot = jobsCollection
                .whereEqualTo("employerId", employerId)
                .orderBy("createdAt", Query.Direction.DESENDING)
                .get()
                .await()

            val jobs = querySnapshot.toObject(Job::class.java)
            Result.success(jobs)
        } catch (e: Exception) {
            Result.failure(e)
        }
    }

    override suspend fun postJob(job: Job): Result<Unit> {
        return try {
            // Tạo một document mới và lấy ID của nó
            val newJobRef = jobsCollection.document()
            job.id = newJobRef.id
            newJobRef.set(job).await()
            Result.success(Unit)
        } catch (e: Exception) {
            Result.failure(e)
        }
    }

    override suspend fun getJobs(lastVisibleJob: DocumentSnapshot?):
    Result<Pair<List<Job>, DocumentSnapshot?>> {
        return try {
            val query = jobsCollection
                .orderBy("createdAt", Query.Direction.DESENDING)
                .limit(PAGE_SIZE)

            val finalQuery = if (lastVisibleJob != null) {
                query.startAfter(lastVisibleJob)
            } else {
                query
            }
        }
    }

```

```

        val querySnapshot = finalQuery.get().await()
        val jobs = querySnapshot.toObject(Job::class.java)
        val newLastVisible = querySnapshot.documents.lastOrNull()

        Result.success(Pair(jobs, newLastVisible))
    } catch (e: Exception) {
        Result.failure(e)
    }
}

override suspend fun getJobDetails(jobId: String): Result<Job> {
    return try {
        val document = jobsCollection.document(jobId).get().await()
        val job = document.toObject(Job::class.java)
        if (job != null) {
            Result.success(job)
        } else {
            Result.failure(Exception("Không tìm thấy công việc."))
        }
    } catch (e: Exception) {
        Result.failure(e)
    }
}

override suspend fun applyForJob(jobId: String, employerId: String, applicantId: String):
Result<Unit> {
    return try {
        val newApplicationRef = applicationsCollection.document()
        val application = JobApplication(
            id = newApplicationRef.id,
            jobId = jobId,
            employerId = employerId,
            applicantId = applicantId
        )
        newApplicationRef.set(application).await()
        Result.success(Unit)
    } catch (e: Exception) {
        Result.failure(e)
    }
}

override suspend fun getApplicationsForWorker(workerId: String):
Result<List<JobApplication>> {

```

```

        return try {
            val querySnapshot = applicationsCollection
                .whereEqualTo("applicantId", workerId)
                .orderBy("appliedAt", Query.Direction.DESENDING)
                .get()
                .await()
            Result.success(querySnapshot.toObject(JobApplication::class.java))
        } catch (e: Exception) {
            Result.failure(e)
        }
    }
}

```

[app/src/main/java/com/example/antamvieclam/data/repository/impl/UserRepositoryImpl.kt](#)

```
package com.example.antamvieclam.data.repository.impl
```

```

import android.content.Context
import android.graphics.Bitmap
import android.graphics.BitmapFactory
import android.net.Uri
import com.cloudinary.android.MediaManager
import com.cloudinary.android.callback.ErrorInfo
import com.cloudinary.android.callback.UploadCallback
import com.example.antamvieclam.data.model.User
import com.example.antamvieclam.data.repository.ProfileResult
import com.example.antamvieclam.data.repository.UserRepository
import com.google.firebase.firestore.FirebaseFirestore
import dagger.hilt.android.qualifiers.ApplicationContext
import kotlinx.coroutines.tasks.await
import java.io.ByteArrayOutputStream
import javax.inject.Inject
import kotlin.coroutines.resume
import kotlin.coroutines.suspendCoroutine
import kotlin.math.roundToInt

```

```

interface UserRepository {
    // Sửa lại hàm để nhận User object và Uri
    suspend fun createUserProfile(user: User, imageUri: Uri?): ProfileResult
    suspend fun getUserProfile(uid: String): User?
    suspend fun doesProfileExist(uid: String): Boolean
}

```

```

class UserRepositoryImpl @Inject constructor(
    @ApplicationContext private val context: Context,
    private val firestore: FirebaseFirestore,
    private val mediaManager: MediaManager // Đã được provide từ AppModule
) : UserRepository {

    private val usersCollection = firestore.collection("users")

    override suspend fun getUserProfile(uid: String): User? {
        return try {
            usersCollection.document(uid).get().await().toObject(User::class.java)
        } catch (e: Exception) {
            null
        }
    }

    // THAY ĐỔI TRONG HÀM NÀY
    override suspend fun createUserProfile(user: User, imageUri: Uri?): ProfileResult {
        return try {
            if (imageUri != null) {
                // 1. Nén ảnh từ Uri thành một ByteArray
                val compressedImageData = compressImage(imageUri)
                if (compressedImageData == null) {
                    return ProfileResult.Error("Không thể xử lý ảnh được chọn.")
                }

                // 2. Tải lên dữ liệu ảnh đã nén
                val uploadedImageUrl = uploadImage(compressedImageData)
                if (uploadedImageUrl != null) {
                    user.profileImageUrl = uploadedImageUrl
                } else {
                    return ProfileResult.Error("Tải ảnh lên thất bại.")
                }
            }

            usersCollection.document(user.uid).set(user).await()
            ProfileResult.Success
        } catch (e: Exception) {
            ProfileResult.Error(e.localizedMessage ?: "Tạo hồ sơ thất bại.")
        }
    }
}

```

```

// HÀM MỚI: Để nén ảnh
private fun compressImage(uri: Uri): ByteArray? {
    // Sử dụng ContentResolver để lấy luồng dữ liệu từ Uri
    val inputStream = context.contentResolver.openInputStream(uri) ?: return null

    // 1. Decode luồng dữ liệu thành một đối tượng Bitmap
    val originalBitmap = BitmapFactory.decodeStream(inputStream)

    // 2. Resize ảnh nếu nó quá lớn (ví dụ: giữ chiều lớn nhất là 1080px)
    val maxHeight = 1080.0
    val maxWidth = 1080.0
    val ratio = (originalBitmap.width.toDouble() /
originalBitmap.height.toDouble()).coerceAtLeast(1.0)

    val newWidth = (maxWidth / ratio).roundToInt()
    val newHeight = (maxHeight / ratio).roundToInt()

    val resizedBitmap = Bitmap.createScaledBitmap(originalBitmap, newWidth, newHeight,
true)

    // 3. Nén ảnh đã resize thành định dạng JPEG với chất lượng 80%
    val outputStream = ByteArrayOutputStream()
    resizedBitmap.compress(Bitmap.CompressFormat.JPEG, 80, outputStream)

    return outputStream.toByteArray()
}

// THAY ĐỔI HÀM NÀY: Giờ sẽ nhận vào ByteArray thay vì Uri
private suspend fun uploadImage(imageData: ByteArray): String? {
    return suspendCoroutine { continuation ->
        // Sử dụng phương thức upload nhận ByteArray
        mediaManager.upload(imageData)
            .callback(object : UploadCallback {
                override fun onStart(requestId: String) {}
                override fun onProgress(requestId: String, bytes: Long, totalBytes: Long) {}

                override fun onSuccess(requestId: String, resultData: Map<*, *>) {
                    val secureUrl = resultData["secure_url"] as? String
                    continuation.resume(secureUrl)
                }
            })
    }
}

```

```

        override fun onError(requestId: String, error: ErrorInfo) {
            continuation.resume(null)
        }

        override fun onReschedule(requestId: String, error: ErrorInfo) {}
    }).dispatch()
}
}
override suspend fun doesProfileExist(uid: String): Boolean {
    return try {
        usersCollection.document(uid).get().await().exists()
    } catch (e: Exception) {
        false
    }
}
}
}

```

[app/src/main/java/com/example/antamvieclam/di/AppModule.kt](#)

```
package com.example.antamvieclam.di
```

```

import com.cloudinary.android.MediaManager
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.FirebaseFirestore
import dagger.Module
import dagger.Provides
import dagger.hilt.InstallIn
import dagger.hilt.components.SingletonComponent
import javax.inject.Singleton

```

```
@Module
```

```
@InstallIn(SingletonComponent::class) // Dependencies sẽ sống sót suốt vòng đời ứng dụng
```

```
object AppModule {
```

```
    @Provides
```

```
    @Singleton // Chỉ tạo một instance duy nhất
```

```
    fun provideFirebaseAuth(): FirebaseAuth {
```

```
        return FirebaseAuth.getInstance()
```

```
    }
```

```
    @Provides
```

```
    @Singleton
```

```
    fun provideFirestore(): FirebaseFirestore {
```

```

        return FirebaseFirestore.getInstance()
    }

    @Provides
    @Singleton
    fun provideCloudinary(): MediaManager {
        // Vì MediaManager đã được khởi tạo trong Application class,
        // ở đây chúng ta chỉ cần lấy ra instance đã tồn tại đó.
        return MediaManager.get()
    }
}

```

[app/src/main/java/com/example/antamvieclam/di/RepositoryModule.kt](#)

```
package com.example.antamvieclam.di
```

```

import com.example.antamvieclam.data.repository.AuthRepository
import com.example.antamvieclam.data.repository.JobRepository
import com.example.antamvieclam.data.repository.UserRepository
import com.example.antamvieclam.data.repository.impl.AuthRepositoryImpl
import com.example.antamvieclam.data.repository.impl.JobRepositoryImpl
import com.example.antamvieclam.data.repository.impl.UserRepositoryImpl
import dagger.Binds
import dagger.Module
import dagger.hilt.InstallIn
import dagger.hilt.components.SingletonComponent
import javax.inject.Singleton

```

```

@Module
@InstallIn(SingletonComponent::class) // Cài đặt module này vào ApplicationComponent
abstract class RepositoryModule {

```

```

    @Binds
    @Singleton // Đảm bảo chỉ có một instance duy nhất của repository trong toàn app
    abstract fun bindAuthRepository(
        authRepositoryImpl: AuthRepositoryImpl
    ): AuthRepository // Khi ai đó yêu cầu AuthRepository, Hilt sẽ cung cấp
    AuthRepositoryImpl

```

```

    @Binds
    @Singleton
    abstract fun bindUserRepository(
        userRepositoryImpl: UserRepositoryImpl
    ): UserRepository // Tương tự, yêu cầu UserRepository -> cung cấp UserRepositoryImpl

```



```

@Binds
@Singleton
abstract fun bindJobRepository(
    jobRepositoryImpl: JobRepositoryImpl
): JobRepository // Khi ai đó yêu cầu JobRepository, Hilt sẽ cung cấp JobRepositoryImpl
}

```

[app/src/main/java/com/example/antamvieclam/ui/auth/AuthViewModel.kt](#)

```

package com.example.antamvieclam.ui.auth

```

```

import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import com.example.antamvieclam.data.repository.AuthRepository
import com.example.antamvieclam.data.repository.AuthResult
import com.google.firebase.auth.AuthCredential
import dagger.hilt.android.lifecycle.HiltViewModel
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.asStateFlow
import kotlinx.coroutines.launch
import javax.inject.Inject
import com.example.antamvieclam.data.repository.UserRepository

```

```

sealed class AuthUiState {
    object Idle : AuthUiState()
    object Loading : AuthUiState()
    data class LoginSuccess(val profileExists: Boolean) : AuthUiState()
    data class Error(val message: String) : AuthUiState()
}

```

```

@HiltViewModel
class AuthViewModel @Inject constructor(
    private val authRepository: AuthRepository,
    private val userRepository: UserRepository
) : ViewModel() {

    private val _uiState = MutableStateFlow<AuthUiState>(AuthUiState.Idle)
    val uiState = _uiState.asStateFlow()

    fun signInWithGoogle(credential: AuthCredential) {
        _uiState.value = AuthUiState.Loading
        viewModelScope.launch {
            when (val result = authRepository.signInWithGoogle(credential)) {

```

```

is AuthResult.Success -> {
    // Đăng nhập thành công, giờ kiểm tra profile
    val uid = authRepository.getCurrentUserId()
    if (uid != null) {
        // Dùng userRepository để kiểm tra
        val profileExists = userRepository.doesProfileExist(uid)
        _uiState.value = AuthUiState.LoginSuccess(profileExists)
    } else {
        _uiState.value = AuthUiState.Error("Không lấy được thông tin người dùng.")
    }
}
is AuthResult.Error -> {
    _uiState.value = AuthUiState.Error(
        result.exception.localizedMessage ?: "Đăng nhập thất bại."
    )
}
}
}
}

fun resetState() {
    _uiState.value = AuthUiState.Idle
}

fun signOut() {
    authRepository.signOut()
}
}

```

app/src/main/java/com/example/antamvieclam/ui/auth/GoogleAuthUiClient.kt

```
package com.example.antamvieclam.ui.auth
```

```

import android.content.Context
import android.content.Intent
import android.content.IntentSender
import com.example.antamvieclam.R // <-- Thêm dòng này
import com.google.android.gms.auth.api.identity.BeginSignInRequest
import com.google.android.gms.auth.api.identity.Identity
import com.google.android.gms.auth.api.identity.SignInClient
import com.google.firebase.auth.GoogleAuthProvider
import kotlinx.coroutines.tasks.await

```

```

class GoogleAuthUiClient(
    private val context: Context,
    private val oneTapClient: SignInClient
) {
    suspend fun signIn(): IntentSender? {
        val result = try {
            oneTapClient.beginSignIn(
                BeginSignInRequest.builder()
                    .setGoogleIdTokenRequestOptions(
                        BeginSignInRequest.GoogleIdTokenRequestOptions.builder()
                            .setSupported(true)
                            // ID này lấy từ file google-services.json
                            // Hoặc vào Google Cloud Console -> APIs & Services -> Credentials
                            // -> OAuth 2.0 Client IDs -> Web client (Auto-created by Google Service)
                            .setServerClientId(context.getString(R.string.default_web_client_id))
                            .setFilterByAuthorizedAccounts(false)
                            .build()
                    )
                    .setAutoSelectEnabled(true)
                    .build()
            ).await()
        } catch (e: Exception) {
            e.printStackTrace()
            null
        }
        return result?.pendingIntent?.intentSender
    }

    fun getSignInCredentialFromIntent(intent: Intent) =
        oneTapClient.getSignInCredentialFromIntent(intent).googleIdToken?.let {
            GoogleAuthProvider.getCredential(it, null)
        }
}

```

<app/src/main/java/com/example/antamvieclam/ui/auth/HomeScreen.kt>

// File: app/src/main/java/com/example/antamvieclam/ui/auth/HomeScreen.kt

```
package com.example.antamvieclam.ui.auth
```

```

import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.padding

```

```

import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.hilt.navigation.compose.hiltViewModel
import androidx.lifecycle.compose.collectAsStateWithLifecycle
import androidx.navigation.NavHostController
import com.example.antamvieclam.data.model.UserType
import com.example.antamvieclam.ui.home.EmployerHomeScreen
import com.example.antamvieclam.ui.home.HomeUiState
import com.example.antamvieclam.ui.home.HomeViewModel
import com.example.antamvieclam.ui.home.WorkerHomeScreen
import com.example.antamvieclam.ui.navigation.Routes

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun HomeScreen(
    onSignOut: () -> Unit,
    rootNavController: NavHostController,
    // Tham số này được truyền từ MainScreen
    homeViewModel: HomeViewModel = hiltViewModel()
) {
    val uiState by homeViewModel.uiState.collectAsStateWithLifecycle()

    Box(
        modifier = Modifier.fillMaxSize().padding(), // Áp dụng padding ở đây
        contentAlignment = Alignment.Center
    ) {
        when (val state = uiState) {
            is HomeUiState.Loading -> CircularProgressIndicator()
            is HomeUiState.Error -> Text(text = state.message)
            is HomeUiState.Success -> {
                when (state.user.userType) {
                    UserType.WORKER -> WorkerHomeScreen(
                        // THAY ĐỔI Ở ĐÂY: Sử dụng `paddingValues` thay cho `innerPadding`
                        navigateToJobDetails = { jobId ->
                            rootNavController.navigate("${Routes.JOB_DETAILS_SCREEN}/${jobId}")
                        },
                        onSignOut = onSignOut
                    )
                    UserType.EMPLOYER -> EmployerHomeScreen(
                        // THAY ĐỔI Ở ĐÂY: Sử dụng `paddingValues` thay cho `innerPadding`

```



```

        navigateToCreateProfile: () -> Unit
    ){
        val uiState by viewModel.uiState.collectAsStateWithLifecycle()
        val context = LocalContext.current
        val coroutineScope = rememberCoroutineScope()

        val googleAuthUiClient by lazy {
            GoogleAuthUiClient(
                context = context,
                oneTapClient = Identity.getSignInClient(context)
            )
        }

        val launcher = rememberLauncherForActivityResult(
            contract = ActivityResultContracts.StartIntentSenderForResult(),
            onResult = { result ->
                if (result.resultCode == Activity.RESULT_OK) {
                    coroutineScope.launch {
                        val credential = googleAuthUiClient.getSignInCredentialFromIntent(result.data ?:
return@launch)
                        if (credential != null) {
                            viewModel.signInWithGoogle(credential)
                        }
                    }
                }
            }
        )

        LaunchedEffect(key1 = uiState) {
            when (val state = uiState) {
                is AuthUiState.LoginSuccess -> {
                    Toast.makeText(context, "Đăng nhập thành công!", Toast.LENGTH_SHORT).show()
                    if (state.profileExists) {
                        navigateToHome()
                    } else {
                        navigateToCreateProfile()
                    }
                    viewModel.resetState() // Reset state sau khi điều hướng
                }
                is AuthUiState.Error -> {
                    Toast.makeText(context, state.message, Toast.LENGTH_LONG).show()
                    viewModel.resetState()
                }
            }
        }
    }

```

```

        else -> {}
    }
}

// --- UI DESIGN ---
Surface(modifier = Modifier.fillMaxSize(), color =
MaterialTheme.colorScheme.background) {
    Column(
        modifier = Modifier
            .fillMaxSize()
            .padding(32.dp),
        verticalArrangement = Arrangement.Center,
        horizontalAlignment = Alignment.CenterHorizontally
    ) {
        // Thay bằng logo của bạn
        Icon(
            painter = painterResource(id = R.drawable.ic_launcher_foreground), // Thay bằng
            logo của bạn
            contentDescription = "App Logo",
            modifier = Modifier.size(120.dp),
            tint = MaterialTheme.colorScheme.primary
        )
        Spacer(modifier = Modifier.height(16.dp))

        Text(
            text = "Chào mừng đến với\nAn Tâm Việc Làm",
            style = MaterialTheme.typography.headlineSmall,
            textAlign = TextAlign.Center,
            fontWeight = FontWeight.Bold
        )

        Text(
            text = "Nền tảng kết nối người lao động tự do",
            style = MaterialTheme.typography.bodyMedium,
            textAlign = TextAlign.Center,
            color = Color.Gray
        )

        Spacer(modifier = Modifier.height(64.dp))

        GoogleSignInButton(
            isLoading = uiState == AuthUiState.Loading,
            onClick = {

```



```

        Image(
            painter = painterResource(id = R.drawable.ic_google_logo),
            contentDescription = "Google logo",
            modifier = Modifier.size(24.dp)
        )
        Spacer(modifier = Modifier.width(12.dp))
        Text("Đăng nhập với Google", fontWeight = FontWeight.SemiBold)
    }
}
}
}

```

app/src/main/java/com/example/antamvieclam/ui/home/EmployerHomeScreen.kt

// File:

```

app/src/main/java/com/example/antamvieclam/ui/home/EmployerHomeScreen.kt
package com.example.antamvieclam.ui.home

```

```

import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.items
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.runtime.LaunchedEffect
import androidx.compose.runtime.getValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.hilt.navigation.compose.hiltViewModel
import androidx.lifecycle.compose.collectAsStateWithLifecycle

```

// BỎ @OptIn và Scaffold

@Composable

```

fun EmployerHomeScreen(
    // BỎ tham số paddingValues
    onNavigateToJobDetails: (String) -> Unit,
    jobViewModel: JobViewModel = hiltViewModel()
) {
    val jobState by jobViewModel.uiState.collectAsStateWithLifecycle()

```

// Không còn Box bao ngoài. `when` là cấp cao nhất.

```

when (val state = jobState) {

```

```

is JobListUiState.Loading -> {
    Box(modifier = Modifier.fillMaxSize(), contentAlignment = Alignment.Center) {
        CircularProgressIndicator()
    }
}
is JobListUiState.Error -> {
    Box(modifier = Modifier.fillMaxSize(), contentAlignment = Alignment.Center) {
        Text(text = state.message)
    }
}
is JobListUiState.Success -> {
    if (state.jobs.isEmpty()) {
        Box(
            modifier = Modifier.fillMaxSize().padding(16.dp),
            contentAlignment = Alignment.Center
        ) {
            Text(
                text = "Bạn chưa đăng tin tuyển dụng nào.\nNhấn nút '+' để bắt đầu.",
                textAlign = TextAlign.Center,
                style = MaterialTheme.typography.bodyLarge
            )
        }
    } else {
        LazyColumn(
            modifier = Modifier.fillMaxSize(),
            // contentPadding giờ chỉ dùng cho mục đích thẩm mỹ
            contentPadding = PaddingValues(16.dp),
            verticalArrangement = Arrangement.spacedBy(12.dp)
        ) {
            items(state.jobs) { job ->
                JobItemCard(job = job, onJobClick = onNavigateToJobDetails)
            }
        }
    }
}
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/home/HomeViewModel.kt](#)

```

// app/src/main/java/com/example/antamvieclam/ui/home/HomeViewModel.kt
package com.example.antamvieclam.ui.home

```

```

import androidx.lifecycle.ViewModel

```

```

import androidx.lifecycle.viewModelScope
import com.example.antamvieclam.data.model.User
import com.example.antamvieclam.data.repository.AuthRepository
import com.example.antamvieclam.data.repository.UserRepository
import dagger.hilt.android.lifecycle.HiltViewModel
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.asStateFlow
import kotlinx.coroutines.launch
import javax.inject.Inject

// Lớp trạng thái cho màn hình Home
sealed class HomeUiState {
    object Loading : HomeUiState()
    data class Success(val user: User) : HomeUiState()
    data class Error(val message: String) : HomeUiState()
}

@HiltViewModel
class HomeViewModel @Inject constructor(
    private val authRepository: AuthRepository,
    private val userRepository: UserRepository
) : ViewModel() {

    private val _uiState = MutableStateFlow<HomeUiState>(HomeUiState.Loading)
    val uiState = _uiState.asStateFlow()

    init {
        // Tải thông tin người dùng ngay khi ViewModel được tạo
        loadCurrentUser()
    }

    private fun loadCurrentUser() {
        viewModelScope.launch {
            _uiState.value = HomeUiState.Loading
            val userId = authRepository.getCurrentUserId()

            if (userId == null) {
                _uiState.value = HomeUiState.Error("Không thể xác thực người dùng.")
                return@launch
            }

            val user = userRepository.getUserProfile(userId)
            if (user != null) {

```

```

        _uiState.value = HomeUiState.Success(user)
    } else {
        // Trường hợp hiếm gặp: đã đăng nhập nhưng không có profile
        _uiState.value = HomeUiState.Error("Không tìm thấy hồ sơ người dùng.")
    }
}
}
}
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/home/JobViewModel.kt](#)

```
package com.example.antamvieclam.ui.home
```

```

import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.data.repository.AuthRepository
import com.example.antamvieclam.data.repository.JobRepository
import dagger.hilt.android.lifecycle.HiltViewModel
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.asStateFlow
import kotlinx.coroutines.launch
import javax.inject.Inject

```

```
// Lớp trạng thái cho màn hình danh sách công việc
```

```

sealed class JobListUiState {
    object Loading : JobListUiState()
    data class Success(val jobs: List<Job>) : JobListUiState()
    data class Error(val message: String) : JobListUiState()
}

```

```
@HiltViewModel
```

```

class JobViewModel @Inject constructor(
    private val jobRepository: JobRepository,
    private val authRepository: AuthRepository
) : ViewModel() {

```

```

    private val _uiState = MutableStateFlow<JobListUiState>(JobListUiState.Loading)
    val uiState = _uiState.asStateFlow()

```

```

    init {
        loadAllJobs()
    }

```

```

// Hàm để tải tất cả công việc cho NLĐ
fun loadAllJobs() {
    viewModelScope.launch {
        _uiState.value = JobListUiState.Loading
        jobRepository.getJobs(null).let { result ->
            if (result.isSuccess) {
                val jobs = result.getOrNull()?.first ?: emptyList()
                _uiState.value = JobListUiState.Success(jobs)
            } else {
                _uiState.value = JobListUiState.Error(
                    result.exceptionOrNull()?.message ?: "Đã có lỗi xảy ra"
                )
            }
        }
    }
}

fun loadJobsForCurrentUser() {
    viewModelScope.launch {
        _uiState.value = JobListUiState.Loading
        val currentUserId = authRepository.getCurrentUserId()
        if (currentUserId == null) {
            _uiState.value = JobListUiState.Error("Không thể xác thực người dùng.")
            return@launch
        }

        jobRepository.getJobsByEmployer(currentUserId as String).let { result ->
            if (result.isSuccess) {
                val jobs = result.getOrNull() ?: emptyList()
                _uiState.value = JobListUiState.Success(jobs)
            } else {
                _uiState.value = JobListUiState.Error(
                    result.exceptionOrNull()?.message ?: "Đã có lỗi xảy ra"
                )
            }
        }
    }
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/home/WorkerHomeScreen](#)
[.kt](#)

```
// app/src/main/java/com/example/antamvieclam/ui/home/WorkerHomeScreen.kt
package com.example.antamvieclam.ui.home
```

```
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.items
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.runtime.remember
import androidx.compose.ui.Modifier
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.hilt.navigation.compose.hiltViewModel
import androidx.lifecycle.compose.collectAsStateWithLifecycle
import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.ui.auth.AuthViewModel
```

```
@OptIn(ExperimentalMaterial3Api::class)
```

```
@Composable
```

```
fun WorkerHomeScreen(
```

```
    navigateToJobDetails: (String) -> Unit,
```

```
    onSignOut: () -> Unit,
```

```
    authViewModel: AuthViewModel = hiltViewModel(),
```

```
    jobViewModel: JobViewModel = hiltViewModel()
)
```

```
{
```

```
    val jobState by jobViewModel.uiState.collectAsStateWithLifecycle()
```

```
    // Dữ liệu giả để hiển thị UI
```

```
    val jobs = remember {
```

```
        listOf(
```

```
            Job(id = "1", title = "Phụ hồ công trình Quận 7", payRate = 300000.0, addressString = "Quận 7, TP. HCM"),
```

```
            Job(id = "2", title = "Bốc vác kho hàng Giaohangtietkiem", payRate = 25000.0, addressString = "Quận 12, TP. HCM"),
```

```
            Job(id = "3", title = "Giao hàng bán thời gian", payRate = 28000.0, addressString = "Bình Thạnh, TP. HCM"),
```

```
        )
```

```
    }
```

```

when (val state = jobState) {
    is JobListUiState.Loading -> {
        CircularProgressIndicator()
    }
    is JobListUiState.Error -> {
        Text(text = state.message)
    }
    is JobListUiState.Success -> {
        if (state.jobs.isEmpty()){
            Text(text = "Chưa có công việc nào được đăng.")
        } else {
            LazyColumn(
                // Modifier chỉ cần fillMaxSize
                modifier = Modifier.fillMaxSize(),
                // Áp dụng padding từ Scaffold và thêm padding ngang 16.dp
                contentPadding = PaddingValues(
                    start = 16.dp,
                    end = 16.dp,
                ),
                verticalArrangement = Arrangement.spacedBy(12.dp)
            ) {
                items(state.jobs) { job ->
                    JobItemCard(job = job, onJobClick = navigateToJobDetails)
                }
            }
        }
    }
}
}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun JobItemCard(
    job: Job,
    onJobClick: (String) -> Unit
) {
    Card(
        modifier = Modifier.fillMaxWidth().clickable { onJobClick(job.id) },
        elevation = CardDefaults.cardElevation(defaultElevation = 2.dp),
        colors = CardDefaults.cardColors(containerColor =

```

```

MaterialTheme.colorScheme.surface) // Sử dụng màu nền của theme
){
    Column(modifier = Modifier.padding(16.dp)) {
        Text(
            text = job.title,
            style = MaterialTheme.typography.titleMedium,
            fontWeight = FontWeight.Bold
        )
        Spacer(modifier = Modifier.height(4.dp))
        Text(
            text = job.addressString,
            style = MaterialTheme.typography.bodyMedium,
            color = MaterialTheme.colorScheme.onSurfaceVariant
        )
        Spacer(modifier = Modifier.height(8.dp))
        Text(
            text = "${job.payRate.toLong()} VNĐ / giờ", // Cần format payType sau
            style = MaterialTheme.typography.bodyLarge,
            color = MaterialTheme.colorScheme.primary,
            fontWeight = FontWeight.SemiBold
        )
    }
}
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/home/components/JobItemCard.kt](#)

```

package com.example.antamvieclam.ui.home.components

```

```

// Dán tất cả các import cần thiết vào đây
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.*
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.LocationOn
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.data.model.PayType
import java.text.NumberFormat

```



```
import java.util.Locale
```

```
@Composable
```

```
fun JobItemCard(
```

```
    job: Job,
```

```
    onJobClick: (String) -> Unit,
```

```
    modifier: Modifier = Modifier
```

```
) {
```

```
    Card(
```

```
        modifier = modifier
```

```
        .fillMaxWidth()
```

```
        .clickable { onJobClick(job.id) },
```

```
        elevation = CardDefaults.cardElevation(defaultElevation = 2.dp),
```

```
        colors = CardDefaults.cardColors(containerColor =
```

```
MaterialTheme.colorScheme.surfaceVariant)
```

```
    ) {
```

```
        Column(
```

```
            modifier = Modifier.padding(16.dp),
```

```
            verticalArrangement = Arrangement.spacedBy(8.dp)
```

```
        ) {
```

```
            Text(
```

```
                text = job.title,
```

```
                style = MaterialTheme.typography.titleMedium,
```

```
                fontWeight = FontWeight.Bold
```

```
            )
```

```
            Row(verticalAlignment = Alignment.CenterVertically) {
```

```
                Icon(
```

```
                    imageVector = Icons.Default.LocationOn,
```

```
                    contentDescription = "Địa điểm",
```

```
                    modifier = Modifier.size(16.dp),
```

```
                    tint = MaterialTheme.colorScheme.onSurfaceVariant
```

```
                )
```

```
                Spacer(modifier = Modifier.width(4.dp))
```

```
                Text(
```

```
                    text = job.addressString,
```

```
                    style = MaterialTheme.typography.bodyMedium,
```

```
                    color = MaterialTheme.colorScheme.onSurfaceVariant
```

```
                )
```

```
            }
```

```
            Text(
```

```
                text = "${job.payRate.toLong().formatCurrency()} VNĐ /
```

```

${job.payType.toVietnamese()}",
        style = MaterialTheme.typography.bodyLarge,
        color = MaterialTheme.colorScheme.primary,
        fontWeight = FontWeight.SemiBold
    )
}
}
}

// Các hàm tiện ích
fun Long.formatCurrency(): String {
    val formatter = NumberFormat.getNumberInstance(Locale("vi", "VN"))
    return formatter.format(this)
}

fun PayType.toVietnamese(): String {
    return when (this) {
        PayType.PER_HOUR -> "giờ"
        PayType.PER_DAY -> "ngày"
        PayType.PER_PACKAGE -> "gói"
    }
}

```

app/src/main/java/com/example/antamvieclam/ui/job_details/JobDetailsScreen.kt

```

// app/src/main/java/com/example/antamvieclam/ui/job_details/JobDetailsScreen.kt
package com.example.antamvieclam.ui.job_details

import androidx.compose.foundation.layout.*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.ArrowBack
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.runtime.collectAsState
import androidx.compose.runtime.getValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.hilt.navigation.compose.hiltViewModel

```

```

import com.example.antamvieclam.data.model.Job
import java.text.NumberFormat
import java.util.*

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun JobDetailsScreen(
    jobId: String?, // Vẫn giữ để biết route, nhưng ViewModel sẽ tự xử lý
    onNavigateBack: () -> Unit,
    viewModel: JobDetailsViewModel = hiltViewModel()
) {
    val uiState by viewModel.uiState.collectAsState()

    Scaffold(
        topBar = {
            TopAppBar(
                title = { Text("Chi Tiết Công Việc") },
                navigationIcon = {
                    IconButton(onClick = onNavigateBack) {
                        Icon(Icons.Default.ArrowBack, contentDescription = "Quay lại")
                    }
                }
            )
        },
        bottomBar = {
            // Chỉ hiển thị nút khi đã tải thành công
            if (uiState is JobDetailsUiState.Success) {
                Button(
                    onClick = { /* TODO: Gọi viewModel.applyForJob() */ },
                    modifier = Modifier
                        .fillMaxWidth()
                        .padding(16.dp)
                        .height(50.dp)
                ) {
                    Text("ỨNG TUYỂN NGAY", fontWeight = FontWeight.Bold)
                }
            }
        }
    ) { paddingValues ->
        Box(
            modifier = Modifier
                .fillMaxSize()
                .padding(paddingValues),

```

```

        contentAlignment = Alignment.Center
    ) {
        when (val state = uiState) {
            is JobDetailsUiState.Loading -> CircularProgressIndicator()
            is JobDetailsUiState.Error -> Text(text = state.message)
            is JobDetailsUiState.Success -> JobDetailsContent(job = state.job)
        }
    }
}
}
}

```

@Composable

```

fun JobDetailsContent(job: Job) {
    Column(
        modifier = Modifier
            .fillMaxSize()
            .padding(16.dp)
            .verticalScroll(rememberScrollState()),
        verticalArrangement = Arrangement.spacedBy(16.dp)
    ) {
        Text(
            text = job.title,
            style = MaterialTheme.typography.headlineSmall,
            fontWeight = FontWeight.Bold
        )
        Divider()
        JobDetailRow(title = "Nhà tuyển dụng", content = job.employerName)
        JobDetailRow(
            title = "Mức lương",
            content = "${job.payRate.toLong().formatCurrency()} VNĐ /
            ${job.payType.toVietnamese()}"
        )
        JobDetailRow(title = "Địa chỉ", content = job.addressString)
        Text("Mô tả công việc", style = MaterialTheme.typography.titleMedium, fontWeight =
        FontWeight.SemiBold)
        Text(
            text = job.description,
            style = MaterialTheme.typography.bodyLarge
        )
    }
}
}
}

```

// Giữ nguyên Composable này

```

@Composable
fun JobDetailRow(title: String, content: String) {
    Column {
        Text(text = title, style = MaterialTheme.typography.labelMedium, color = Color.Gray)
        Text(text = content, style = MaterialTheme.typography.bodyLarge)
    }
}

```

```

// Hàm tiện ích để format lương và loại hình trả lương
fun Long.formatCurrency(): String {
    return NumberFormat.getNumberInstance(Locale.GERMANY).format(this)
}

```

```

fun com.example.antamvieclam.data.model.PayType.toVietnamese(): String {
    return when (this) {
        com.example.antamvieclam.data.model.PayType.PER_HOUR -> "giờ"
        com.example.antamvieclam.data.model.PayType.PER_DAY -> "ngày"
        com.example.antamvieclam.data.model.PayType.PER_PACKAGE -> "gói"
    }
}

```

[app/src/main/java/com/example/antamvieclam/ui/job_details/JobDetailsViewModel.kt](#)

```

package com.example.antamvieclam.ui.job_details

import androidx.lifecycle.SavedStateHandle
import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.data.repository.JobRepository
import dagger.hilt.android.lifecycle.HiltViewModel
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.asStateFlow
import kotlinx.coroutines.launch
import javax.inject.Inject

// Lớp trạng thái cho màn hình chi tiết
sealed class JobDetailsUiState {
    object Loading : JobDetailsUiState()
    data class Success(val job: Job) : JobDetailsUiState()
    data class Error(val message: String) : JobDetailsUiState()
}

```

```

@HiltViewModel
class JobDetailsViewModel @Inject constructor(
    private val jobRepository: JobRepository,
    // SavedStateHandle giúp lấy argument (jobId) từ navigation route
    private val savedStateHandle: SavedStateHandle
) : ViewModel() {

    private val _uiState = MutableStateFlow<JobDetailsUiState>(JobDetailsUiState.Loading)
    val uiState = _uiState.asStateFlow()

    init {
        // Lấy jobId từ arguments và tải dữ liệu
        savedStateHandle.get<String>("jobId")?.let { jobId ->
            loadJobDetails(jobId)
        }
    }

    private fun loadJobDetails(jobId: String) {
        viewModelScope.launch {
            _uiState.value = JobDetailsUiState.Loading
            val result = jobRepository.getJobDetails(jobId)
            if (result.isSuccess) {
                result.getOrNull()?.let { job ->
                    _uiState.value = JobDetailsUiState.Success(job)
                } ?: run {
                    _uiState.value = JobDetailsUiState.Error("Không tìm thấy công việc.")
                }
            } else {
                _uiState.value = JobDetailsUiState.Error(
                    result.exceptionOrNull()?.message ?: "Lỗi khi tải dữ liệu."
                )
            }
        }
    }
}

```

[app/src/main/java/com/example/antamvieclam/ui/main/MainScreen.kt](#)

// File: app/src/main/java/com/example/antamvieclam/ui/main/MainScreen.kt

```
package com.example.antamvieclam.ui.main
```

```
import android.annotation.SuppressLint
```

```
import androidx.compose.material.icons.Icons
```

```

import androidx.compose.material.icons.filled.Add
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.hilt.navigation.compose.hiltViewModel
import androidx.lifecycle.compose.collectAsStateWithLifecycle
import androidx.navigation.NavDestination.Companion.hierarchy
import androidx.navigation.NavGraph.Companion.findStartDestination
import androidx.navigation.NavHostController
import androidx.navigation.compose.currentBackStackEntryAsState
import androidx.navigation.compose.rememberNavController
import com.example.antamvieclam.data.model.UserType
import com.example.antamvieclam.ui.home.HomeUiState
import com.example.antamvieclam.ui.home.HomeViewModel
import com.example.antamvieclam.ui.navigation.BottomNavGraph
import com.example.antamvieclam.ui.navigation.BottomNavItem
import com.example.antamvieclam.ui.navigation.Routes

@SuppressLint("UnusedMaterial3ScaffoldPaddingParameter")
@Composable
fun MainScreen(
    rootNavController: NavHostController,
    onSignOut: () -> Unit,
    homeViewModel: HomeViewModel = hiltViewModel()
) {
    val bottomNavController = rememberNavController()
    val navBackStackEntry by bottomNavController.currentBackStackEntryAsState()
    val currentRoute = navBackStackEntry?.destination?.route

    val homeUiState by homeViewModel.uiState.collectAsStateWithLifecycle()

    Scaffold(
        // GỌN HƠN RẤT NHIỀU: Chỉ cần một lời gọi hàm
        topBar = {
            MainTopAppBar(
                currentRoute = currentRoute,
                homeUiState = homeUiState
            )
        },
        bottomBar = { BottomBar(navController = bottomNavController) },
        floatingActionButton = {
            // Logic FAB giữ nguyên, đã rất gọn
            if (currentRoute == BottomNavItem.Home.route) {

```

```

        if ((homeUiState as? HomeUiState.Success)?.user?.userType ==
UserType.EMPLOYER) {
            FloatingActionButton(
                onClick = { rootNavController.navigate(Routes.CREATE_JOB_SCREEN) }
            ) {
                Icon(Icons.Default.Add, contentDescription = "Đăng tin mới")
            }
        }
    }
}
) { innerPadding ->
    BottomNavGraph(
        bottomNavController = bottomNavController,
        onSignOut = onSignOut,
        rootNavController = rootNavController,
        paddingValues = innerPadding
    )
}
}
}

```

@Composable

```

fun BottomBar(navController: NavHostController) {
    val screens = listOf(BottomNavItem.Home, BottomNavItem.Management,
BottomNavItem.Profile)
    val navBackStackEntry by navController.currentBackStackEntryAsState()
    val currentDestination = navBackStackEntry?.destination

    NavigationBar {
        screens.forEach { screen ->
            NavigationBarItem(
                icon = { Icon(screen.icon, contentDescription = screen.title) },
                label = { Text(screen.title) },
                selected = currentDestination?.hierarchy?.any { it.route == screen.route } == true,
                onClick = {
                    navController.navigate(screen.route) {
                        popUpTo(navController.graph.findStartDestination().id) { saveState = true }
                        launchSingleTop = true
                        restoreState = true
                    }
                }
            )
        }
    }
}
}

```



```

    }
}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
private fun MainTopAppBar(
    currentRoute: String?,
    homeUiState: HomeUiState
) {
    // Logic xác định tiêu đề được đóng gói gọn gàng ở đây
    val title = when (currentRoute) {
        BottomNavItem.Home.route -> {
            (homeUiState as? HomeUiState.Success)?.user?.let { user ->
                if (user.userType == UserType.EMPLOYER) "Quản Lý Tin Tuyển Dụng" else "Tìm
Việc Quanh Đây"
            }
        }
        BottomNavItem.Management.route -> "Quản Lý"
        BottomNavItem.Profile.route -> "Hồ Sơ Của Tôi"
        else -> null // Không có tiêu đề cho các màn hình khác
    }

    // Chỉ hiển thị TopAppBar khi có tiêu đề
    if (title != null) {
        TopAppBar(title = { Text(title) })
    }
}

```

[app/src/main/java/com/example/antamvieclam/ui/management/ManagementScreen.kt](#)

```
package com.example.antamvieclam.ui.management
```

```

import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.items
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.runtime.collectAsState
import androidx.compose.runtime.getValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier

```

```

import androidx.compose.ui.draw.clip
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.hilt.navigation.compose.hiltViewModel
import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.data.model.JobApplication

```

```

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun ManagementScreen(
    paddingValues: PaddingValues,
    viewModel: ManagementViewModel = hiltViewModel()
) {
    val uiState by viewModel.uiState.collectAsState()

    // BỎ Scaffold, chỉ giữ lại nội dung bên trong
    Box(
        modifier = Modifier
            .fillMaxSize()
            // ÁP DỤNG paddingValues từ Scaffold mẹ
            .padding(paddingValues),
        contentAlignment = Alignment.Center
    ) {
        when (val state = uiState) {
            is ManagementUiState.Loading -> CircularProgressIndicator()
            is ManagementUiState.Error -> Text(text = state.message)
            is ManagementUiState.Success -> {
                when (val data = state.data) {
                    is ManagementData.WorkerData ->
                        WorkerManagementContent(data.applications)
                    is ManagementData.EmployerData ->
                        EmployerManagementContent(data.postedJobs)
                }
            }
        }
    }
}

```

```

@Composable
fun WorkerManagementContent(applications: List<JobApplication>) {
    if (applications.isEmpty()) {

```

```

        Text("Bạn chưa ứng tuyển công việc nào.")
    } else {
        LazyColumn(
            contentPadding = PaddingValues(16.dp),
            verticalArrangement = Arrangement.spacedBy(12.dp)
        ) {
            items(applications) { application ->
                ApplicationItemCard(application = application)
            }
        }
    }
}

@Composable
fun EmployerManagementContent(jobs: List<Job>) {
    if (jobs.isEmpty()) {
        Text("Bạn chưa đăng tin tuyển dụng nào.")
    } else {
        // Có thể dùng lại JobItemCard từ màn hình Home
        // Hoặc tạo một card mới với các nút quản lý (xem ứng viên, sửa, xóa)
        LazyColumn(
            contentPadding = PaddingValues(16.dp),
            verticalArrangement = Arrangement.spacedBy(12.dp)
        ) {
            items(jobs) { job ->
                // TODO: Tạo JobManagementCard hoặc dùng JobItemCard
                Text(text = "Công việc đã đăng: ${job.title}")
            }
        }
    }
}

```

```

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun ApplicationItemCard(application: JobApplication) {
    Card(
        modifier = Modifier.fillMaxWidth(),
        onClick = { /* TODO: Navigate to job details or chat */ }
    ) {
        Row(
            modifier = Modifier
                .fillMaxWidth()
                .padding(16.dp),

```

```

        horizontalArrangement = Arrangement.SpaceBetween,
        verticalAlignment = Alignment.CenterVertically
    ){
        Column(modifier = Modifier.weight(1f)) {
            // TODO: Lấy tên công việc từ jobId để hiển thị, tạm thời dùng jobId
            Text(
                text = "ID công việc: ${application.jobId}",
                style = MaterialTheme.typography.titleMedium,
                fontWeight = FontWeight.Bold
            )
            Text(
                text = "ID nhà tuyển dụng: ${application.employerId}",
                style = MaterialTheme.typography.bodySmall
            )
        }
        StatusBadge(status = application.status)
    }
}
}

```

```

@Composable
fun StatusBadge(status: String) {
    val (backgroundColor, textColor) = when (status.uppercase()) {
        "PENDING" -> MaterialTheme.colorScheme.secondaryContainer to
MaterialTheme.colorScheme.onSecondaryContainer
        "ACCEPTED" -> Color(0xFFDFFFE0) to Color(0xFF228B22) // Xanh lá
        "REJECTED" -> Color(0xFFFFE1E1) to Color(0xFFD32F2F) // Đỏ
        else -> MaterialTheme.colorScheme.surfaceVariant to
MaterialTheme.colorScheme.onSurfaceVariant
    }
}

```

```

Box(
    modifier = Modifier
        .clip(RoundedCornerShape(12.dp))
        .background(backgroundColor)
        .padding(horizontal = 12.dp, vertical = 6.dp)
){
    Text(
        text = status,
        color = textColor,
        style = MaterialTheme.typography.labelMedium,
        fontWeight = FontWeight.Bold
    )
}

```

```
}  
}
```

`app/src/main/java/com/example/antamvieclam/ui/management/ManagementViewModel.kt`

```
package com.example.antamvieclam.ui.management
```

```
import androidx.lifecycle.ViewModel  
import androidx.lifecycle.viewModelScope  
import com.example.antamvieclam.data.model.Job  
import com.example.antamvieclam.data.model.JobApplication  
import com.example.antamvieclam.data.model.UserType  
import com.example.antamvieclam.data.repository.AuthRepository  
import com.example.antamvieclam.data.repository.JobRepository  
import com.example.antamvieclam.data.repository.UserRepository  
import dagger.hilt.android.lifecycle.HiltViewModel  
import kotlinx.coroutines.flow.MutableStateFlow  
import kotlinx.coroutines.flow.asStateFlow  
import kotlinx.coroutines.launch  
import javax.inject.Inject
```

```
// Lớp trạng thái phức tạp hơn để chứa dữ liệu cho cả 2 vai trò  
sealed class ManagementUiState {  
    object Loading : ManagementUiState()  
    data class Success(val data: ManagementData) : ManagementUiState()  
    data class Error(val message: String) : ManagementUiState()  
}
```

```
// Dùng sealed interface để định nghĩa các loại dữ liệu có thể có  
sealed interface ManagementData {  
    data class WorkerData(val applications: List<JobApplication>) : ManagementData  
    data class EmployerData(val postedJobs: List<Job>) : ManagementData  
}
```

```
@HiltViewModel  
class ManagementViewModel @Inject constructor(  
    private val jobRepository: JobRepository,  
    private val userRepository: UserRepository,  
    private val authRepository: AuthRepository  
) : ViewModel() {  
  
    private val _uiState =  
        MutableStateFlow<ManagementUiState>(ManagementUiState.Loading)
```

```

val uiState = _uiState.asStateFlow()

init {
    loadDataForCurrentUser()
}

fun loadDataForCurrentUser() {
    viewModelScope.launch {
        _uiState.value = ManagementUiState.Loading
        val userId = authRepository.getCurrentUserId()
        if (userId == null) {
            _uiState.value = ManagementUiState.Error("Không thể xác thực người dùng.")
            return@launch
        }
        val user = userRepository.getUserProfile(userId)
        if (user == null) {
            _uiState.value = ManagementUiState.Error("Không tìm thấy hồ sơ người dùng.")
            return@launch
        }

        when (user.userType) {
            UserType.WORKER -> loadApplicationsForWorker(userId)
            UserType.EMPLOYER -> loadJobsForEmployer(userId)
        }
    }
}

private suspend fun loadApplicationsForWorker(workerId: String) {
    val result = jobRepository.getApplicationsForWorker(workerId)
    if (result.isSuccess) {
        _uiState.value = ManagementUiState.Success(
            ManagementData.WorkerData(result.getOrNull() ?: emptyList())
        )
    } else {
        _uiState.value = ManagementUiState.Error(result.exceptionOrNull()?.message ?:
"Lỗi")
    }
}

private suspend fun loadJobsForEmployer(employerId: String) {
    val result = jobRepository.getJobsByEmployer(employerId)
    if (result.isSuccess) {
        _uiState.value = ManagementUiState.Success(

```

```

        ManagementData.EmployerData(result.getOrNull() ?: emptyList())
    )
} else {
    _uiState.value = ManagementUiState.Error(result.exceptionOrNull()?.message ?:
"Lỗi")
}
}
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/navigation/AppNavigation.kt](#)

```
// app/src/main/java/com/example/antamvieclam/ui/navigation/AppNavigation.kt
```

```
package com.example.antamvieclam.ui.navigation
```

```

import androidx.compose.foundation.layout.PaddingValues
import androidx.compose.foundation.layout.padding
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.navigation.NavHostController
import androidx.navigation.NavType
import androidx.navigation.compose.NavHost
import androidx.navigation.compose.composable
import androidx.navigation.compose.rememberNavController
import androidx.navigation.navArgument
import com.example.antamvieclam.ui.auth.HomeScreen
import com.example.antamvieclam.ui.auth.LoginScreen
import com.example.antamvieclam.ui.job_details.JobDetailsScreen
import com.example.antamvieclam.ui.main.MainScreen
import com.example.antamvieclam.ui.management.ManagementScreen
import com.example.antamvieclam.ui.posting.CreateJobScreen
import com.example.antamvieclam.ui.profile.CreateProfileScreen
import com.example.antamvieclam.ui.profile.ProfileScreen
import com.google.firebase.auth.FirebaseAuth

```

```
// Cấu trúc NavHost chính của toàn bộ ứng dụng
```

```
@Composable
```

```
fun RootNavigation() {
```

```
    val navController = rememberNavController()
```

```
    val startDestination = if (FirebaseAuth.getInstance().currentUser != null) {
```

```

        "main_screen"
    } else {
        Routes.LOGIN_SCREEN
    }

NavHost(navController = navController, startDestination = startDestination) {
    composable(Routes.LOGIN_SCREEN) {
        LoginScreen(
            navigateToHome = {
                navController.navigate("main_screen") {
                    popUpTo(Routes.LOGIN_SCREEN) { inclusive = true }
                }
            },
            navigateToCreateProfile = {
                navController.navigate(Routes.CREATE_PROFILE_SCREEN) {
                    popUpTo(Routes.LOGIN_SCREEN) { inclusive = true }
                }
            }
        )
    }
    composable(Routes.CREATE_PROFILE_SCREEN) {
        CreateProfileScreen(
            onProfileCreated = {
                navController.navigate("main_screen") {
                    popUpTo(Routes.CREATE_PROFILE_SCREEN) { inclusive = true }
                }
            }
        )
    }
    composable("main_screen") {
        MainScreen(
            rootNavController = navController,
            // THÊM MỚI: Định nghĩa hành động đăng xuất tại đây
            onSignOut = {
                navController.navigate(Routes.LOGIN_SCREEN) {
                    popUpTo(0) // Xóa toàn bộ back stack
                }
            }
        )
    }
    // THÊM MỚI: Định nghĩa route cho màn hình chi tiết công việc
    composable(
        route = "${Routes.JOB_DETAILS_SCREEN}/{jobId}",

```



```

        arguments = listOf(navArgument("jobId") { type = NavType.StringType })
    } { backStackEntry ->
        JobDetailsScreen(
            jobId = backStackEntry.arguments?.getString("jobId"),
            // Hành động để quay lại màn hình trước đó
            onNavigateBack = {
                navController.popBackStack()
            }
        )
    }
}
composable(Routes.CREATE_JOB_SCREEN) {
    CreateJobScreen(
        onNavigateBack = {
            navController.popBackStack()
        }
    )
}
}
}
}

```

// Cấu trúc NavHost cho các màn hình BÊN TRONG Bottom Navigation Bar

@Composable

```

fun BottomNavGraph(
    bottomNavController: NavHostController,
    onSignOut: () -> Unit,
    rootNavController: NavHostController,
    paddingValues: PaddingValues // <-- Tham số này rất quan trọng
) {
    NavHost(
        navController = bottomNavController,
        startDestination = BottomNavItem.Home.route,
        // ÁP DỤNG PADDING VÀO ĐÂY!
        modifier = Modifier.padding(paddingValues)
    ) {
        composable(BottomNavItem.Home.route) {
            // KHÔNG cần truyền paddingValues vào HomeScreen nữa
            HomeScreen(
                onSignOut = onSignOut,
                rootNavController = rootNavController
            )
        }
        composable(BottomNavItem.Management.route) {
            // KHÔNG cần truyền paddingValues vào ManagementScreen nữa

```

```

        ManagementScreen(PaddingValues())
    }
    composable(BottomNavItem.Profile.route) {
        // KHÔNG cần truyền paddingValues vào ProfileScreen nữa
        ProfileScreen(onSignOut = onSignOut)
    }
}
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/navigation/BottomNavItem.kt](#)

```
package com.example.antamvieclam.ui.navigation
```

```

import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Home
import androidx.compose.material.icons.filled.List
import androidx.compose.material.icons.filled.Person
import androidx.compose.material.icons.outlined.Home
import androidx.compose.material.icons.outlined.List
import androidx.compose.material.icons.outlined.Person
import androidx.compose.ui.graphics.vector.ImageVector

```

// Sealed class định nghĩa các màn hình trong Bottom Navigation

```

sealed class BottomNavItem(
    val route: String,
    val title: String,
    val icon: ImageVector, // Icon khi chưa được chọn
    val selectedIcon: ImageVector // Icon khi đã được chọn
) {
    object Home : BottomNavItem(
        route = "home_screen",
        title = "Trang chủ",
        icon = Icons.Outlined.Home,
        selectedIcon = Icons.Filled.Home
    )

    object Management : BottomNavItem(
        route = "management_screen",
        title = "Quản lý",
        icon = Icons.Outlined.List,
        selectedIcon = Icons.Filled.List
    )
}

```

```

object Profile : BottomNavItem{
    route = "profile_screen",
    title = "Hồ sơ",
    icon = Icons.Outlined.Person,
    selectedIcon = Icons.Filled.Person
}

```

[app/src/main/java/com/example/antamvieclam/ui/navigation/Routes.kt](#)

```

package com.example.antamvieclam.ui.navigation

```

```

object Routes {
    const val LOGIN_SCREEN = "login"
    const val OTP_SCREEN = "otp/{verificationId}" // Chúng ta cần truyền verificationId
    const val CREATE_PROFILE_SCREEN = "create_profile"
    const val HOME_SCREEN = "home" // Màn hình chính sau khi đăng nhập và có hồ sơ
    const val CREATE_JOB_SCREEN = "create_job"
    const val JOB_DETAILS_SCREEN = "job_details"
}

```

[app/src/main/java/com/example/antamvieclam/ui/posting/CreateJobScreen.kt](#)

```

// app/src/main/java/com/example/antamvieclam/ui/posting/CreateJobScreen.kt

```

```

package com.example.antamvieclam.ui.posting

```

```

import android.os.Bundle
import android.widget.Toast
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.selection.selectable
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.automirrored.filled.ArrowBack
import androidx.compose.material.icons.filled.LocationOn
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.draw.clip
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.platform.LocalContext

```

```

import androidx.compose.ui.platform.LocalLifecycleOwner
import androidx.compose.ui.semantics.Role // <-- SỬA LỖI #3
import androidx.compose.ui.text.input.ImeAction // <-- SỬA LỖI #1 & #2
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.unit.dp
import androidx.compose.ui.viewinterop.AndroidView
import androidx.hilt.navigation.compose.hiltViewModel
import androidx.lifecycle.Lifecycle
import androidx.lifecycle.LifecycleEventObserver
import androidx.lifecycle.compose.collectAsStateWithLifecycle
import com.example.antamvieclam.data.model.PayType
import com.google.firebase.firestore.GeoPoint
import com.trackasia.android.camera.CameraPosition
import com.trackasia.android.geometry.LatLng
import com.trackasia.android.maps.MapView
import com.trackasia.android.maps.Style

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun CreateJobScreen(
    onNavigateBack: () -> Unit,
    viewModel: CreateJobViewModel = hiltViewModel()
) {
    val uiState by viewModel.uiState.collectAsStateWithLifecycle()
    val context = LocalContext.current

    var title by remember { mutableStateOf("") }
    var description by remember { mutableStateOf("") }
    var payRate by remember { mutableStateOf("") }
    var address by remember { mutableStateOf("") }
    var payType by remember { mutableStateOf(PayType.PER_HOUR) }

    val defaultLocation = LatLng(10.7769, 106.7009) // TP.HCM
    var selectedLatLng by remember { mutableStateOf(defaultLocation) }

    LaunchedEffect(uiState) {
        when (val state = uiState) {
            is CreateJobState.Success -> {
                Toast.makeText(context, "Đăng tin thành công!", Toast.LENGTH_SHORT).show()
                onNavigateBack()
            }
            is CreateJobState.Error -> {
                Toast.makeText(context, state.message, Toast.LENGTH_LONG).show()
            }
        }
    }
}

```

```

    }
    else -> {}
  }
}

Scaffold(
  topBar = {
    TopAppBar(
      title = { Text("Đăng Tin Mới") },
      navigationIcon = {
        IconButton(onClick = onNavigateBack) {
          // Sử dụng icon AutoMirrored để tự động đảo chiều cho các ngôn ngữ RTL
          Icon(Icons.AutoMirrored.Filled.ArrowBack, contentDescription = "Quay lại")
        }
      }
    )
  }
) { paddingValues ->
  Column(
    modifier = Modifier
      .fillMaxSize()
      .padding(paddingValues)
      .padding(horizontal = 16.dp)
      .verticalScroll(rememberScrollState())
  ) {
    Spacer(modifier = Modifier.height(16.dp))
    Text("Chi tiết công việc", style = MaterialTheme.typography.titleLarge)
    Spacer(modifier = Modifier.height(16.dp))

    OutlinedTextField(value = title, onValueChange = { title = it }, label = { Text("Tiêu đề công việc") }, modifier = Modifier.fillMaxWidth(), singleLine = true, keyboardOptions = KeyboardOptions(imeAction = ImeAction.Next))
    Spacer(Modifier.height(8.dp))
    OutlinedTextField(value = description, onValueChange = { description = it }, label = { Text("Mô tả chi tiết") }, modifier = Modifier.fillMaxWidth().height(120.dp))
    Spacer(Modifier.height(8.dp))
    OutlinedTextField(value = payRate, onValueChange = { payRate = it }, label = { Text("Mức lương (VD: 50000)") }, modifier = Modifier.fillMaxWidth(), keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Number, imeAction = ImeAction.Next), singleLine = true)
    Spacer(Modifier.height(8.dp))
    OutlinedTextField(value = address, onValueChange = { address = it }, label = { Text("Địa chỉ cụ thể") }, modifier = Modifier.fillMaxWidth(), singleLine = true,

```

```
keyboardOptions = KeyboardOptions(imeAction = ImeAction.Done))
```

```
Spacer(modifier = Modifier.height(16.dp))
Text("Hình thức trả lương", style = MaterialTheme.typography.titleMedium)
Row(Modifier.fillMaxWidth(), horizontalArrangement = Arrangement.SpaceEvenly) {
    PayType.values().forEach { type ->
        Row(
            Modifier
                .selectable(
                    selected = (type == payType),
                    onClick = { payType = type },
                    role = Role.RadioButton // <-- Cần import đúng
                )
                .padding(horizontal = 8.dp),
            verticalAlignment = Alignment.CenterVertically
        ) {
            RadioButton( // <-- Cần import đúng
                selected = (type == payType),
                onClick = null
            )
            Text(
                text = type.toVietnamese(),
                style = MaterialTheme.typography.bodyLarge,
                modifier = Modifier.padding(start = 4.dp)
            )
        }
    }
}
```

```
Spacer(modifier = Modifier.height(16.dp))
Text("Ghim vị trí trên bản đồ", style = MaterialTheme.typography.titleMedium)
Spacer(modifier = Modifier.height(8.dp))
Box(
    modifier = Modifier
        .fillMaxWidth()
        .height(300.dp)
        .clip(MaterialTheme.shapes.medium),
    contentAlignment = Alignment.Center
) {
    TrackAsiaMapPicker(
        initialPosition = defaultLocation,
        onCameraMove = { newLatLng -> selectedLatLng = newLatLng }
    )
}
```

```

        Icon(imageVector = Icons.Default.LocationOn, contentDescription = "Pin", tint =
Color.Red, modifier = Modifier.size(40.dp).padding(bottom = 20.dp))
    }

```

```

    Spacer(modifier = Modifier.height(24.dp))
    Button(
        onClick = {
            val geoPoint = GeoPoint(selectedLatLng.latitude, selectedLatLng.longitude)
            viewModel.postJob(title, description, payRate, payType, address, geoPoint)
        },
        enabled = uiState !is CreateJobState.Loading,
        modifier = Modifier.fillMaxWidth().height(50.dp)
    ) {
        if (uiState is CreateJobState.Loading) {
            CircularProgressIndicator(modifier = Modifier.size(24.dp), color =
MaterialTheme.colorScheme.onPrimary)
        } else {
            Text("ĐĂNG TIN")
        }
    }
    Spacer(modifier = Modifier.height(16.dp))
}
}
}

```

```

fun PayType.toVietnamese(): String {
    return when (this) {
        PayType.PER_HOUR -> "Theo giờ"
        PayType.PER_DAY -> "Theo ngày"
        PayType.PER_PACKAGE -> "Trọn gói"
    }
}

```

```

@Composable
fun TrackAsiaMapPicker(
    initialPosition: LatLng,
    onCameraMove: (LatLng) -> Unit
) {
    val context = LocalContext.current
    val mapView = remember {
        // XÓA KHỎI TẠO LÒNG NHAU THỪA
        MapView(context)
    }
}

```

```

    }

    val lifecycle = LocalLifecycleOwner.current.lifecycle
    DisposableEffect(lifecycle, mapView) {
        val lifecycleObserver = LifecycleEventObserver { _, event ->
            when (event) {
                Lifecycle.Event.ON_CREATE -> mapView.onCreate(Bundle())
                Lifecycle.Event.ON_START -> mapView.onStart()
                Lifecycle.Event.ON_RESUME -> mapView.onResume()
                Lifecycle.Event.ON_PAUSE -> mapView.onPause()
                Lifecycle.Event.ON_STOP -> mapView.onStop()
                Lifecycle.Event.ON_DESTROY -> mapView.onDestroy()
                else -> {}
            }
        }
        lifecycle.addObserver(lifecycleObserver)
        onDispose {
            lifecycle.removeObserver(lifecycleObserver)
        }
    }
}

AndroidView({ mapView }) { map ->
    map.getMapAsync { trackAsiaMap ->
        val styleUrl = "https://maps.track-
asia.com/styles/v1/streets.json?key=52fedb6b306931761836057e5580a05be7"
        trackAsiaMap.setStyle(Style.Builder().fromUri(styleUrl))
        trackAsiaMap.cameraPosition = CameraPosition.Builder()
            .target(initialPosition)
            .zoom(15.0)
            .build()
        trackAsiaMap.addOnCameraIdleListener {
            trackAsiaMap.cameraPosition.target?.let(onCameraMove)
        }
    }
}
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/posting/CreateJobViewModel.kt](#)

```

// app/src/main/java/com/example/antamvieclam/ui/posting/CreateJobViewModel.kt
package com.example.antamvieclam.ui.posting

```

```

import androidx.lifecycle.ViewModel

```



```

import androidx.lifecycle.viewModelScope
import com.example.antamvieclam.data.model.Job
import com.example.antamvieclam.data.model.PayType
import com.example.antamvieclam.data.repository.AuthRepository
import com.example.antamvieclam.data.repository.JobRepository
import com.example.antamvieclam.data.repository.UserRepository
import com.google.firebase.firestore.GeoPoint
import dagger.hilt.android.lifecycle.HiltViewModel
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.asStateFlow
import kotlinx.coroutines.launch
import javax.inject.Inject

sealed class CreateJobState {
    object Idle : CreateJobState()
    object Loading : CreateJobState()
    object Success : CreateJobState()
    data class Error(val message: String) : CreateJobState()
}

@HiltViewModel
class CreateJobViewModel @Inject constructor(
    private val jobRepository: JobRepository,
    private val authRepository: AuthRepository,
    private val userRepository: UserRepository
) : ViewModel() {

    private val _uiState = MutableStateFlow<CreateJobState>(CreateJobState.Idle)
    val uiState = _uiState.asStateFlow()

    fun postJob(
        title: String,
        description: String,
        payRate: String,
        payType: PayType,
        address: String,
        location: GeoPoint?
    ) {
        _uiState.value = CreateJobState.Loading

        // --- Validation ---
        if (title.isBlank() || description.isBlank() || payRate.isBlank() || address.isBlank()) {
            _uiState.value = CreateJobState.Error("Vui lòng điền đầy đủ thông tin.")
        }
    }
}

```

```

        return
    }
    if (location == null) {
        _uiState.value = CreateJobState.Error("Vui lòng chọn vị trí trên bản đồ.")
        return
    }
    val payRateDouble = payRate.toDoubleOrNull()
    if (payRateDouble == null || payRateDouble <= 0) {
        _uiState.value = CreateJobState.Error("Mức lương không hợp lệ.")
        return
    }

    viewModelScope.launch {
        val userId = authRepository.getCurrentUserId()
        if (userId == null) {
            _uiState.value = CreateJobState.Error("Không thể xác thực người dùng.")
            return@launch
        }

        // Lấy thông tin NTD để nhúng vào job object
        val employer = userRepository.getUserProfile(userId)
        if (employer == null) {
            _uiState.value = CreateJobState.Error("Không tìm thấy hồ sơ nhà tuyển dụng.")
            return@launch
        }

        val newJob = Job(
            employerId = userId,
            employerName = employer.fullName,
            employerProfileUrl = employer.profileImageUrl,
            title = title,
            description = description,
            payRate = payRateDouble,
            payType = payType,
            addressString = address,
            location = location
        )

        jobRepository.postJob(newJob)
        .onSuccess { _uiState.value = CreateJobState.Success }
        .onFailure { _uiState.value = CreateJobState.Error(it.message ?: "Đã xảy ra lỗi") }
    }
}

```

```
}  
}
```

[app/src/main/java/com/example/antamvieclam/ui/profile/CreateProfileScreen.kt](#)

```
// app/src/main/java/com/example/antamvieclam/ui/profile/CreateProfileScreen.kt
```

```
package com.example.antamvieclam.ui.profile
```

```
import android.net.Uri  
import android.widget.Toast  
import androidx.activity.compose.rememberLauncherForActivityResult  
import androidx.activity.result.contract.ActivityResultContracts  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.border  
import androidx.compose.foundation.clickable  
import androidx.compose.foundation.layout.*  
import androidx.compose.foundation.rememberScrollState  
import androidx.compose.foundation.shape.CircleShape  
import androidx.compose.foundation.verticalScroll  
import androidx.compose.material.icons.Icons  
import androidx.compose.material.icons.filled.Edit  
import androidx.compose.material.icons.filled.Person  
import androidx.compose.material3.*  
import androidx.compose.runtime.*  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.draw.clip  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.layout.ContentScale  
import androidx.compose.ui.platform.LocalContext  
import androidx.compose.ui.text.font.FontWeight  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import androidx.hilt.navigation.compose.hiltViewModel  
import androidx.lifecycle.compose.collectAsStateWithLifecycle  
import coil.compose.rememberAsyncImagePainter  
import com.example.antamvieclam.data.model.UserType  
import com.google.firebase.auth.FirebaseAuth
```

```
@Composable
```

```
fun CreateProfileScreen{
```

```

viewModel: ProfileViewModel = hiltViewModel(),
onProfileCreated: () -> Unit
){
    val uiState by viewModel.uiState.collectAsStateWithLifecycle()
    val context = LocalContext.current

    val suggestedName = FirebaseAuth.getInstance().currentUser?.displayName ?: ""
    var fullName by remember { mutableStateOf(suggestedName) }
    var selectedUserType by remember { mutableStateOf(UserType.WORKER) }
    var imageUri by remember { mutableStateOf<Uri?>(null) }

    val imagePickerLauncher = rememberLauncherForActivityResult(
        contract = ActivityResultContracts.GetContent()
    ) { uri: Uri? ->
        imageUri = uri
    }

    LaunchedEffect(key1 = uiState) {
        when (val state = uiState) {
            is ProfileUiState.SaveSuccess -> {
                Toast.makeText(context, "Tạo hồ sơ thành công!", Toast.LENGTH_SHORT).show()
                onProfileCreated()
            }
            is ProfileUiState.Error -> {
                Toast.makeText(context, state.message, Toast.LENGTH_LONG).show()
            }
            else -> {}
        }
    }
}

// --- UI DESIGN ---
Surface(modifier = Modifier.fillMaxSize()) {
    Column(
        modifier = Modifier
            .fillMaxSize()
            .padding(24.dp)
            .verticalScroll(rememberScrollState()), // Cho phép cuộn khi bàn phím hiện
        horizontalAlignment = Alignment.CenterHorizontally
    ) {
        Spacer(modifier = Modifier.height(32.dp))
        Text("Tạo Hồ Sơ Của Bạn", style = MaterialTheme.typography.headlineMedium,
            fontWeight = FontWeight.Bold)
        Text("Hãy cho chúng tôi biết thêm về bạn", style =

```

```

MaterialTheme.typography.bodyMedium, color = Color.Gray)
    Spacer(modifier = Modifier.height(32.dp))

    // Vùng chọn ảnh đại diện cải tiến
    Box(contentAlignment = Alignment.BottomEnd) {
        Image(
            painter = rememberAsyncImagePainter(
                model = imageUri ?: "https://via.placeholder.com/150"
            ),
            contentDescription = "Ảnh đại diện",
            modifier = Modifier
                .size(120.dp)
                .clip(CircleShape)
                .border(2.dp, MaterialTheme.colorScheme.primary, CircleShape)
                .clickable { imagePickerLauncher.launch("image/*") },
            contentScale = ContentScale.Crop
        )
        Box(
            modifier = Modifier
                .size(36.dp)
                .clip(CircleShape)
                .background(MaterialTheme.colorScheme.primary)
                .padding(6.dp)
        ) {
            Icon(
                imageVector = Icons.Default.Edit,
                contentDescription = "Chỉnh sửa ảnh",
                tint = Color.White
            )
        }
    }

    Spacer(modifier = Modifier.height(32.dp))

    // Trường nhập Họ và Tên
    OutlinedTextField(
        value = fullName,
        onChange = { fullName = it },
        label = { Text("Họ và Tên") },
        modifier = Modifier.fillMaxWidth(),
        singleLine = true,
        leadingIcon = { Icon(Icons.Default.Person, contentDescription = null) }
    )

```

```

Spacer(modifier = Modifier.height(24.dp))

// Vùng chọn vai trò cải tiến
Text("Bạn là:", modifier = Modifier.fillMaxWidth(), fontWeight =
FontWeight.SemiBold)
Spacer(modifier = Modifier.height(8.dp))
Column(modifier = Modifier.fillMaxWidth()) {
    RoleSelectionRow(
        text = "Người lao động",
        selected = selectedUserType == UserType.WORKER,
        onClick = { selectedUserType = UserType.WORKER }
    )
    Spacer(modifier = Modifier.height(8.dp))
    RoleSelectionRow(
        text = "Nhà tuyển dụng",
        selected = selectedUserType == UserType.EMPLOYER,
        onClick = { selectedUserType = UserType.EMPLOYER }
    )
}

Spacer(modifier = Modifier.weight(1f)) // Đẩy nút xuống dưới

// Nút Lưu
Button(
    onClick = {
        viewModel.saveUserProfile(fullName, selectedUserType, imageUri)
    },
    modifier = Modifier
        .fillMaxWidth()
        .height(50.dp),
    enabled = uiState != ProfileUiState.Loading
) {
    if (uiState == ProfileUiState.Loading) {
        CircularProgressIndicator(
            modifier = Modifier.size(24.dp),
            color = MaterialTheme.colorScheme.onPrimary
        )
    } else {
        Text("HOÀN TẤT", fontSize = 16.sp, fontWeight = FontWeight.Bold)
    }
}
}

```

```

    }
  }
}

```

@Composable

```

fun RoleSelectionRow(text: String, selected: Boolean, onClick: () -> Unit) {
    Row(
        modifier = Modifier
            .fillMaxWidth()
            .border(
                width = 1.dp,
                color = if (selected) MaterialTheme.colorScheme.primary else Color.LightGray,
                shape = MaterialTheme.shapes.medium
            )
            .clip(MaterialTheme.shapes.medium)
            .clickable(onClick = onClick)
            .padding(horizontal = 16.dp, vertical = 12.dp),
        verticalAlignment = Alignment.CenterVertically
    ) {
        RadioButton(
            selected = selected,
            onClick = onClick
        )
        Spacer(modifier = Modifier.width(8.dp))
        Text(text = text, style = MaterialTheme.typography.bodyLarge)
    }
}

```

[app/src/main/java/com/example/antamvieclam/ui/profile/ProfileScreen.kt](#)

package com.example.antamvieclam.ui.profile

```

import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.shape.CircleShape
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Edit
import androidx.compose.material.icons.filled.Email
import androidx.compose.material.icons.filled.Logout
import androidx.compose.material.icons.filled.Person
import androidx.compose.material3.*

```

```

import androidx.compose.runtime.Composable
import androidx.compose.runtime.collectAsState
import androidx.compose.runtime.getValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.draw.clip
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.hilt.navigation.compose.hiltViewModel
import coil.compose.rememberAsyncImagePainter
import com.example.antamvieclam.data.model.User

```

```

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun ProfileScreen(
    onSignOut: () -> Unit,
    viewModel: ProfileViewModel = hiltViewModel()
) {
    val uiState by viewModel.uiState.collectAsState()

    // Bỏ Scaffold, chỉ giữ lại Box chứa nội dung
    Box(
        modifier = Modifier.fillMaxSize().padding(),
        contentAlignment = Alignment.Center
    ) {
        when (val state = uiState) {
            is ProfileUiState.Loading -> CircularProgressIndicator()
            is ProfileUiState.Error -> Text(text = state.message)
            // Sửa lại tên State cho khớp với code của bạn
            is ProfileUiState.Success -> ProfileContent(
                user = state.user,
                onSignOut = {
                    viewModel.signOut()
                    onSignOut()
                }
            )
            is ProfileUiState.LoadSuccess -> ProfileContent(
                user = state.user,
                onSignOut = {
                    viewModel.signOut()
                    onSignOut()
                }
            )
        }
    }
}

```



```

    }
    else -> {} // Bỏ qua các state khác
  }
}
}

```

@Composable

```

fun ProfileContent(user: User, onSignOut: () -> Unit) {
    LazyColumn(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment = Alignment.CenterHorizontally,
        contentPadding = PaddingValues(16.dp)
    ) {
        // Avatar và Tên
        item {
            Image(
                painter = rememberAsyncImagePainter(
                    model = user.profileImageUrl ?: "https://via.placeholder.com/150"
                ),
                contentDescription = "Avatar",
                modifier = Modifier
                    .size(120.dp)
                    .clip(CircleShape),
                contentScale = ContentScale.Crop
            )
            Spacer(modifier = Modifier.height(16.dp))
            Text(
                text = user.fullName,
                style = MaterialTheme.typography.headlineSmall,
                fontWeight = FontWeight.Bold
            )
            Text(
                text = user.userType.name,
                style = MaterialTheme.typography.bodyMedium,
                color = MaterialTheme.colorScheme.primary
            )
            Spacer(modifier = Modifier.height(24.dp))
        }

        // Thông tin chi tiết
        item {
            Card(modifier = Modifier.fillMaxWidth()) {
                Column(modifier = Modifier.padding(vertical = 8.dp)) {

```



```

        overlineContent = { Text(title) },
        leadingContent = {
            Icon(
                imageVector = icon,
                contentDescription = null,
                modifier = Modifier
                    .clip(CircleShape)
                    .background(MaterialTheme.colorScheme.secondaryContainer)
                    .padding(8.dp),
                tint = MaterialTheme.colorScheme.onSecondaryContainer
            )
        }
    )
}

```

[app/src/main/java/com/example/antamvieclam/ui/profile/ProfileViewModel.kt](#)

```

package com.example.antamvieclam.ui.profile

import android.net.Uri
import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import com.example.antamvieclam.data.model.User
import com.example.antamvieclam.data.model.UserType
import com.example.antamvieclam.data.repository.AuthRepository
import com.example.antamvieclam.data.repository.ProfileResult
import com.example.antamvieclam.data.repository.UserRepository
import com.google.firebase.auth.FirebaseAuth
import dagger.hilt.android.lifecycle.HiltViewModel
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.asStateFlow
import kotlinx.coroutines.launch
import javax.inject.Inject

sealed class ProfileUiState {

    object Loading : ProfileUiState()
    data class LoadSuccess(val user: User) : ProfileUiState()
    object SaveSuccess : ProfileUiState()

    data class Success(val user: User) : ProfileUiState()
    data class Error(val message: String) : ProfileUiState()
}

```

```

@HiltViewModel
class ProfileViewModel @Inject constructor(
    private val userRepository: UserRepository,
    private val authRepository: AuthRepository
) : ViewModel() {

    private val _uiState = MutableStateFlow<ProfileUiState>(ProfileUiState.Loading)
    val uiState = _uiState.asStateFlow()

    init {
        loadUserProfile()
    }

    private fun loadUserProfile() {
        viewModelScope.launch {
            _uiState.value = ProfileUiState.Loading
            val userId = authRepository.getCurrentUserId()
            if (userId == null) {
                _uiState.value = ProfileUiState.Error("Không thể xác thực người dùng.")
                return@launch
            }

            val user = userRepository.getUserProfile(userId)
            if (user != null) {
                _uiState.value = ProfileUiState.Success(user)
            } else {
                _uiState.value = ProfileUiState.Error("Không tìm thấy hồ sơ người dùng.")
            }
        }
    }

    fun saveUserProfile(fullName: String, userType: UserType, imageUri: Uri?) {
        viewModelScope.launch {
            _uiState.value = ProfileUiState.Loading
            if (fullName.isBlank()) {
                _uiState.value = ProfileUiState.Error("Vui lòng nhập họ và tên.")
                return@launch
            }
            val currentUserId = authRepository.getCurrentUserId()
            if (currentUserId == null) {
                _uiState.value = ProfileUiState.Error("Người dùng chưa đăng nhập.")
                return@launch
            }
        }
    }
}

```

```

    }

    // Tạo đối tượng User mới
    val newUser = User(
        uid = currentUserId,
        fullName = fullName,
        userType = userType,
        phoneNumber = FirebaseAuth.getInstance().currentUser?.phoneNumber
    )

    // Gọi repository để tạo profile
    val result = userRepository.createUserProfile(newUser, imageUri)
    when (result) {
        is ProfileResult.Success -> {
            _uiState.value = ProfileUiState.SaveSuccess
        }
        is ProfileResult.Error -> {
            _uiState.value = ProfileUiState.Error(result.message)
        }
    }
}

fun signOut() {
    authRepository.signOut()
}
}

```

[app/src/main/java/com/example/antamvieclam/ui/theme/Color.kt](#)

package com.example.antamvieclam.ui.theme

import androidx.compose.ui.graphics.Color

```

val Purple80 = Color(0xFFD0BCFF)
val PurpleGrey80 = Color(0xFFCCC2DC)
val Pink80 = Color(0xFFE8B888)

```

```

val Purple40 = Color(0xFF6650a4)
val PurpleGrey40 = Color(0xFF625b71)
val Pink40 = Color(0xFF7D5260)

```

[app/src/main/java/com/example/antamvieclam/ui/theme/Theme.kt](#)

package com.example.antamvieclam.ui.theme

```

import android.app.Activity
import android.os.Build
import androidx.compose.foundation.isSystemInDarkTheme
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.darkColorScheme
import androidx.compose.material3.dynamicDarkColorScheme
import androidx.compose.material3.dynamicLightColorScheme
import androidx.compose.material3.lightColorScheme
import androidx.compose.runtime.Composable
import androidx.compose.ui.platform.LocalContext

private val DarkColorScheme = darkColorScheme(
    primary = Purple80,
    secondary = PurpleGrey80,
    tertiary = Pink80
)

private val LightColorScheme = lightColorScheme(
    primary = Purple40,
    secondary = PurpleGrey40,
    tertiary = Pink40

    /* Other default colors to override
    background = Color(0xFFFFFBFE),
    surface = Color(0xFFFFFBFE),
    onPrimary = Color.White,
    onSecondary = Color.White,
    onTertiary = Color.White,
    onBackground = Color(0xFF1C1B1F),
    onSurface = Color(0xFF1C1B1F),
    */
)

@Composable
fun AnTamViecLamTheme(
    darkTheme: Boolean = isSystemInDarkTheme(),
    // Dynamic color is available on Android 12+
    dynamicColor: Boolean = true,
    content: @Composable () -> Unit
) {
    val colorScheme = when {
        dynamicColor && Build.VERSION.SDK_INT >= Build.VERSION_CODES.S -> {
            val context = LocalContext.current

```

```
        if (darkTheme) dynamicDarkColorScheme(context) else
dynamicLightColorScheme(context)
    }
}
```

```
    darkTheme -> DarkColorScheme
    else -> LightColorScheme
}
```

```
MaterialTheme(
    colorScheme = colorScheme,
    typography = Typography,
    content = content
)
}
```

[app/src/main/java/com/example/antamvieclam/ui/theme/Type.kt](#)

```
package com.example.antamvieclam.ui.theme
```

```
import androidx.compose.material3.Typography
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.sp
```

```
// Set of Material typography styles to start with
```

```
val Typography = Typography(
    bodyLarge = TextStyle(
        fontFamily = FontFamily.Default,
        fontWeight = FontWeight.Normal,
        fontSize = 16.sp,
        lineHeight = 24.sp,
        letterSpacing = 0.5.sp
    )
    /* Other default text styles to override
    titleLarge = TextStyle(
        fontFamily = FontFamily.Default,
        fontWeight = FontWeight.Normal,
        fontSize = 22.sp,
        lineHeight = 28.sp,
        letterSpacing = 0.sp
    ),
    labelSmall = TextStyle(
        fontFamily = FontFamily.Default,
```

```

        fontWeight = FontWeight.Medium,
        fontSize = 11.sp,
        lineHeight = 16.sp,
        letterSpacing = 0.5.sp
    )
    */
)

```

app/src/main/res/drawable/ic_launcher_background.xml

```

<?xml version="1.0" encoding="utf-8"?>
<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="108dp"
    android:height="108dp"
    android:viewportWidth="108"
    android:viewportHeight="108">
    <path
        android:fillColor="#3DDC84"
        android:pathData="M0,0h108v108h-108z" />
    <path
        android:fillColor="#00000000"
        android:pathData="M9,0L9,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,0L19,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M29,0L29,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M39,0L39,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M49,0L49,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />

```



```
<path
  android:fillColor="#00000000"
  android:pathData="M59,0L59,108"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M69,0L69,108"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M79,0L79,108"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M89,0L89,108"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M99,0L99,108"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M0,9L108,9"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M0,19L108,19"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M0,29L108,29"
  android:strokeWidth="0.8"
  android:strokeColor="#33FFFFFF" />
<path
  android:fillColor="#00000000"
  android:pathData="M0,39L108,39"
```

```
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,49L108,49"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,59L108,59"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,69L108,69"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,79L108,79"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,89L108,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M0,99L108,99"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,29L89,29"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M19,39L89,39"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
```

```

        android:fillColor="#00000000"
        android:pathData="M19,49L89,49"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M19,59L89,59"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M19,69L89,69"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M19,79L89,79"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M29,19L29,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M39,19L39,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M49,19L49,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M59,19L59,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M69,19L69,89"
    android:strokeWidth="0.8"

```

```

        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M79,19L79,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
</vector>

```

app/src/main/res/drawable/ic_launcher_foreground.xml

```

<vector xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:aapt="http://schemas.android.com/aapt"
    android:width="108dp"
    android:height="108dp"
    android:viewportWidth="108"
    android:viewportHeight="108">
    <path android:pathData="M31,63.928c0,0 6.4,-11 12.1,-13.1c7.2,-2.6 26,-1.4 26,-
1.4l38.1,38.1L107,108.928l-32,-1L31,63.928z">
        <aapt:attr name="android:fillColor">
            <gradient
                android:endX="85.84757"
                android:endY="92.4963"
                android:startX="42.9492"
                android:startY="49.59793"
                android:type="linear">
                <item
                    android:color="#44000000"
                    android:offset="0.0" />
                <item
                    android:color="#00000000"
                    android:offset="1.0" />
            </gradient>
        </aapt:attr>
    </path>
    <path
        android:fillColor="#FFFFFF"
        android:fillType="nonZero"
        android:pathData="M65.3,45.828l3.8,-6.6c0.2,-0.4 0.1,-0.9 -0.3,-1.1c-0.4,-0.2 -0.9,-0.1 -
1.1,0.3l-3.9,6.7c-6.3,-2.8 -13.4,-2.8 -19.7,0l-3.9,-6.7c-0.2,-0.4 -0.7,-0.5 -1.1,-0.3C38.8,38.328
38.7,38.828 38.9,39.228l3.8,6.6C36.2,49.428 31.7,56.028 31,63.928h46C76.3,56.028
71.8,49.428 65.3,45.828zM43.4,57.328c-0.8,0 -1.5,-0.5 -1.8,-1.2c-0.3,-0.7 -0.1,-1.5 0.4,-
2.1c0.5,-0.5 1.4,-0.7 2.1,-0.4c0.7,0.3 1.2,1 1.2,1.8C45.3,56.528 44.5,57.328
43.4,57.328L43.4,57.328zM64.6,57.328c-0.8,0 -1.5,-0.5 -1.8,-1.2s-0.1,-1.5 0.4,-2.1c0.5,-0.5

```

```

1.4,-0.7 2.1,-0.4c0.7,0.3 1.2,1 1.2,1.8C66.5,56.528 65.6,57.328 64.6,57.328L64.6,57.328z"
    android:strokeWidth="1"
    android:strokeColor="#00000000" />
</vector>

```

[app/src/main/res/mipmap-anydpi-v26/ic_launcher.xml](#)

```

<?xml version="1.0" encoding="utf-8"?>
<adaptive-icon xmlns:android="http://schemas.android.com/apk/res/android">
    <background android:drawable="@drawable/ic_launcher_background" />
    <foreground android:drawable="@drawable/ic_launcher_foreground" />
    <monochrome android:drawable="@drawable/ic_launcher_foreground" />
</adaptive-icon>

```

[app/src/main/res/mipmap-anydpi-v26/ic_launcher_round.xml](#)

```

<?xml version="1.0" encoding="utf-8"?>
<adaptive-icon xmlns:android="http://schemas.android.com/apk/res/android">
    <background android:drawable="@drawable/ic_launcher_background" />
    <foreground android:drawable="@drawable/ic_launcher_foreground" />
    <monochrome android:drawable="@drawable/ic_launcher_foreground" />
</adaptive-icon>

```

[app/src/main/res/values/colors.xml](#)

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
</resources>

```

[app/src/main/res/values/strings.xml](#)

```

<resources>
    <string name="app_name">AnTamViecLam</string>
</resources>

```

[app/src/main/res/values/themes.xml](#)

```

<?xml version="1.0" encoding="utf-8"?>
<resources>

```

```

    <style name="Theme.AnTamViecLam"

```

```
parent="android:Theme.Material.Light.NoActionBar" />
</resources>
```

app/src/main/res/xml/backup_rules.xml

```
<?xml version="1.0" encoding="utf-8"?><!--
  Sample backup rules file; uncomment and customize as necessary.
  See https://developer.android.com/guide/topics/data/autobackup
  for details.
  Note: This file is ignored for devices older than API 31
  See https://developer.android.com/about/versions/12/backup-restore
-->
<full-backup-content>
  <!--
  <include domain="sharedpref" path="." />
  <exclude domain="sharedpref" path="device.xml" />
  -->
</full-backup-content>
```

app/src/main/res/xml/data_extraction_rules.xml

```
<?xml version="1.0" encoding="utf-8"?><!--
  Sample data extraction rules file; uncomment and customize as necessary.
  See https://developer.android.com/about/versions/12/backup-restore#xml-changes
  for details.
-->
<data-extraction-rules>
  <cloud-backup>
    <!-- TODO: Use <include> and <exclude> to control what is backed up.
    <include .../>
    <exclude .../>
    -->
  </cloud-backup>
  <!--
  <device-transfer>
    <include .../>
    <exclude .../>
  </device-transfer>
  -->
</data-extraction-rules>
```

app/src/test/java/com/example/antamvieclam/ExampleUnitTest.kt

```
package com.example.antamvieclam
```

```
import org.junit.Test
```

```
import org.junit.Assert.*

/**
 * Example local unit test, which will execute on the development machine (host).
 *
 * See [testing documentation](http://d.android.com/tools/testing).
 */
class ExampleUnitTest {
    @Test
    fun addition_isCorrect() {
        assertEquals(4, 2 + 2)
    }
}
```

gradle/libs.versions.toml

```
# gradle/libs.versions.toml
```

```
[versions]
# Plugins
crashlyticsPlugin = "3.0.1"
androidGradlePlugin = "8.4.1"
kotlin = "2.0.0"
ksp = "2.0.0-1.0.21"
googleServices = "4.4.2"
mapsSecretsPlugin = "2.0.1"
materialIconsExtended = "1.6.8"
trackasia = "2.0.2"
accompanist = "0.32.0"
secrets-gradle-plugin = "2.0.1"
cloudinary = "2.4.0"

# SDKs
compileSdk = "34"
minSdk = "24"
targetSdk = "34"

# THÊM CÁC THƯ VIỆN TRACKASIA
trackasia-sdk = { group = "com.track-asia", name = "trackasia-android-sdk", version.ref =
"trackasia" }
trackasia-annotation-plugin = { group = "com.track-asia", name = "trackasia-android-plugin-
annotation-v9", version.ref = "trackasia" }

# Libraries
```

```
coreKtx = "1.13.1"
activityCompose = "1.9.0"
composeBom = "2024.06.00"
composeCompiler = "1.5.14"
hilt = "2.51.1"
lifecycle = "2.8.2"
room = "2.6.1"
firebaseBom = "33.1.1"
playServicesAuth = "21.2.0"
playServicesCoroutines = "1.8.1"
coroutines = "1.8.0"
retrofit = "2.9.0"
okhttp = "4.12.0"
navigation = "2.7.7"
hiltNavigation = "1.2.0"
coil = "2.6.0"
mapsCompose = "4.3.3"      # <--- THÊM MỚI: Thư viện Maps cho Compose
playServicesMaps = "18.2.0" # <--- THÊM MỚI: Thư viện Google Maps SDK
playServicesLocation = "21.3.0" # <--- THÊM MỚI: Thư viện Location Services
```

```
# Testing
junit = "4.13.2"
androidxJunit = "1.1.5"
espressoCore = "3.5.1"
firebaseAuth = "23.0.0"
viewbinding = "7.4.2"
transportBackendCct = "3.1.9"
transportApi = "3.0.0"
```

```
[libraries]
```

```
# AndroidX Core
```

```
androidx-core-ktx = { group = "androidx.core", name = "core-ktx", version.ref = "coreKtx" }
androidx-lifecycle-runtime-ktx = { group = "androidx.lifecycle", name = "lifecycle-runtime-ktx", version.ref = "lifecycle" }
androidx-activity-compose = { group = "androidx.activity", name = "activity-compose", version.ref = "activityCompose" }
```

```
accompanist-navigation-animation = { group = "com.google.accompanist", name = "accompanist-navigation-animation", version.ref = "accompanist" }
```

```
# Jetpack Compose
```



```
androidx-compose-bom = { group = "androidx.compose", name = "compose-bom",  
version.ref = "composeBom" }  
androidx-compose-ui = { group = "androidx.compose.ui", name = "ui" }  
androidx-compose-ui-graphics = { group = "androidx.compose.ui", name = "ui-graphics" }  
androidx-compose-ui-tooling = { group = "androidx.compose.ui", name = "ui-tooling" }  
androidx-compose-ui-tooling-preview = { group = "androidx.compose.ui", name = "ui-  
tooling-preview" }  
androidx-compose-material3 = { group = "androidx.compose.material3", name =  
"material3" }  
androidx-lifecycle-viewmodel-compose = { group = "androidx.lifecycle", name = "lifecycle-  
viewmodel-compose", version.ref = "lifecycle" }  
androidx-lifecycle-runtime-compose = { group = "androidx.lifecycle", name = "lifecycle-  
runtime-compose", version.ref = "lifecycle" }  
androidx-compose-material-icons-extended = { group = "androidx.compose.material", name  
= "material-icons-extended", version.ref = "materialIconsExtended" }
```

Image Loading - Coil

```
coil-compose = { module = "io.coil-kt:coil-compose", version.ref = "coil" }
```

Navigation

```
androidx-navigation-compose = { group = "androidx.navigation", name = "navigation-  
compose", version.ref = "navigation" }  
androidx-hilt-navigation-compose = { group = "androidx.hilt", name = "hilt-navigation-  
compose", version.ref = "hiltNavigation" }
```

Dependency Injection - Hilt

```
hilt-android = { group = "com.google.dagger", name = "hilt-android", version.ref = "hilt" }  
hilt-compiler = { group = "com.google.dagger", name = "hilt-compiler", version.ref = "hilt" }
```

Local Database - Room

```
androidx-room-runtime = { group = "androidx.room", name = "room-runtime", version.ref =  
"room" }  
androidx-room-ktx = { group = "androidx.room", name = "room-ktx", version.ref = "room" }  
androidx-room-compiler = { group = "androidx.room", name = "room-compiler", version.ref  
= "room" }
```

Remote - Firebase

```
cloudinary-android = { group = "com.cloudinary", name = "cloudinary-android", version.ref  
= "cloudinary" }  
firebase-bom = { group = "com.google.firebase", name = "firebase-bom", version.ref =  
"firebaseBom" }  
firebase-auth-ktx = { group = "com.google.firebase", name = "firebase-auth-ktx" }  
firebase-firestore-ktx = { group = "com.google.firebase", name = "firebase-firestore-ktx" }
```

```
firebase-storage-ktx = { group = "com.google.firebase", name = "firebase-storage-ktx" }
firebase-messaging-ktx = { group = "com.google.firebase", name = "firebase-messaging-ktx"
}
firebase-crashlytics-ktx = { group = "com.google.firebase", name = "firebase-crashlytics-ktx"
}
play-services-auth = { group = "com.google.android.gms", name = "play-services-auth",
version.ref = "playServicesAuth" }
```

THÊM MỚI: Google Maps & Location

```
maps-compose = { group = "com.google.maps.android", name = "maps-compose",
version.ref = "mapsCompose" }
play-services-maps = { group = "com.google.android.gms", name = "play-services-maps",
version.ref = "playServicesMaps" }
play-services-location = { group = "com.google.android.gms", name = "play-services-
location", version.ref = "playServicesLocation" }
trackasia-sdk = { group = "io.github.track-asia", name = "android-sdk", version.ref =
"trackasia" }
trackasia-annotation-plugin = { group = "io.github.track-asia", name = "android-plugin-
annotation-v9", version = "2.0.1" }
```

Asynchronous - Coroutines

```
kotlinx-coroutines-core = { group = "org.jetbrains.kotlinx", name = "kotlinx-coroutines-
core", version.ref = "coroutines" }
kotlinx-coroutines-android = { group = "org.jetbrains.kotlinx", name = "kotlinx-coroutines-
android", version.ref = "coroutines" }
kotlinx-coroutines-play-services = { group = "org.jetbrains.kotlinx", name = "kotlinx-
coroutines-play-services", version.ref = "playServicesCoroutines" }
```

Networking - Retrofit & OkHttp

```
retrofit = { group = "com.squareup.retrofit2", name = "retrofit", version.ref = "retrofit" }
converter-gson = { group = "com.squareup.retrofit2", name = "converter-gson", version.ref =
"retrofit" }
logging-interceptor = { group = "com.squareup.okhttp3", name = "logging-interceptor",
version.ref = "okhttp" }
```

Testing

```
junit = { group = "junit", name = "junit", version.ref = "junit" }
androidx-junit = { group = "androidx.test.ext", name = "junit", version.ref = "androidxJunit" }
androidx-espresso-core = { group = "androidx.test.espresso", name = "espresso-core",
version.ref = "espressoCore" }
androidx-compose-ui-test-junit4 = { group = "androidx.compose.ui", name = "ui-test-junit4"
}
androidx-compose-ui-test-manifest = { group = "androidx.compose.ui", name = "ui-test-
```

```
manifest" }
firebase-auth = { group = "com.google.firebase", name = "firebase-auth", version.ref =
"firebaseAuth" }
androidx-viewbinding = { group = "androidx.databinding", name = "viewbinding",
version.ref = "viewbinding" }
transport-backend-cct = { group = "com.google.android.datatransport", name = "transport-
backend-cct", version.ref = "transportBackendCct" }
transport-api = { group = "com.google.android.datatransport", name = "transport-api",
version.ref = "transportApi" }
```

[plugins]

Khai báo các plugin của dự án

```
android-secrets-gradle-plugin = { id = "com.google.android.libraries.mapsplatform.secrets-
gradle-plugin", version.ref = "secrets-gradle-plugin" }
android-application = { id = "com.android.application", version.ref = "androidGradlePlugin"
}
android-library = { id = "com.android.library", version.ref = "androidGradlePlugin" }
kotlin-android = { id = "org.jetbrains.kotlin.android", version.ref = "kotlin" }
ksp = { id = "com.google.devtools.ksp", version.ref = "ksp" }
hilt = { id = "com.google.dagger.hilt.android", version.ref = "hilt" }
google-services = { id = "com.google.gms.google-services", version.ref = "googleServices" }
kotlin-compose-compiler = { id = "org.jetbrains.kotlin.plugin.compose", version.ref =
"kotlin" }
firebase-crashlytics = { id = "com.google.firebase.crashlytics", version.ref =
"crashlyticsPlugin" }
maps-secrets = { id = "com.google.android.libraries.mapsplatform.secrets-gradle-plugin",
version.ref = "mapsSecretsPlugin" } # <--- THÊM MỚI
```

[bundles]

Nhóm các thư viện thường đi chung với nhau để gọi cho gọn

```
compose = ["androidx-compose-ui", "androidx-compose-ui-graphics", "androidx-compose-
ui-tooling-preview", "androidx-compose-material3"]
room = ["androidx-room-runtime", "androidx-room-ktx"]
coroutines = ["kotlinx-coroutines-core", "kotlinx-coroutines-android"]
```

[gradle/wrapper/gradle-wrapper.properties](#)

#Sun Nov 09 13:27:50 ICT 2025

distributionBase=GRADLE_USER_HOME

distributionPath=wrapper/dists

distributionUrl=https\://services.gradle.org/distributions/gradle-8.13-bin.zip

networkTimeout=10000

```
validateDistributionUrl=true  
zipStoreBase=GRADLE_USER_HOME  
zipStorePath=wrapper/dists
```