#### **Assignment 3**

### Rayana Sri Sai Santhosh — 20BIT0185 Video Player

#### The Code:

```
1. Video API
package santhosh 20bit0185.data.remote.api
import retrofit2.http.GET
import retrofit2.http.Query
import xyz.teamgravity.onlinevideoplayer.data.remote.dto.VideoDto
interface VideoApi {
    companion object {
        const val BASE URL = "https://picsum.photos"
        const val PAGE = 1
        const val PER PAGE = 10
        const val MAX SIZE = 60
        const val VIDEO URL =
            "https://firebasestorage.googleapis.com/v0/b/spotify-
clone-
702f3.appspot.com/o/video%2Falone.mp4?alt=media&token=73be6ebd-
3f5f-4d2b-a3e5-1c9458e4734f"
    }
    @GET("/v2/list")
    suspend fun getPopularVideos(
        @Query("page") page: Int,
        @Query("limit") perPage: Int,
    ): List<VideoDto>
}
2. Video Paging Source
package santhosh 20bit0185.data.remote.datasource
import androidx.paging.PagingSource
import androidx.paging.PagingState
import timber.log.Timber
import santhosh 20bit0185.data.remote.api.VideoApi
import santhosh 20bit0185.data.remote.dto.VideoDto
class VideoPagingSource(
    private val api: VideoApi
```

```
) : PagingSource<Int, VideoDto>() {
    override fun getRefreshKey(state: PagingState<Int,</pre>
VideoDto>): Int? {
        return state.anchorPosition
    override suspend fun load(params: LoadParams<Int>):
LoadResult<Int, VideoDto> {
        val page = params.key ?: VideoApi.PAGE
        return try {
            val videos = api.getPopularVideos(
                page = page,
                perPage = params.loadSize
            )
            Timber.d("Just api request")
            LoadResult.Page(
                data = videos,
                prevKey = if (page == VideoApi.PAGE) null else
page -1,
                nextKey = if (videos.isEmpty()) null else page +
1
            )
        } catch (e: Exception) {
            Timber.d("Exception: ${e.message}")
            LoadResult.Error(e)
        }
    }
}
3. Get Videos
package santhosh 20bit0185.domain.usecase
import androidx.paging.PagingData
import kotlinx.coroutines.flow.Flow
import santhosh 20bit0185.domain.model.VideoModel
import santhosh 20bit0185.domain.repository.VideoRepository
class GetVideos(
   private val repository: VideoRepository
) {
    operator fun invoke(): Flow<PagingData<VideoModel>> {
        return repository.getVideos()
}
```

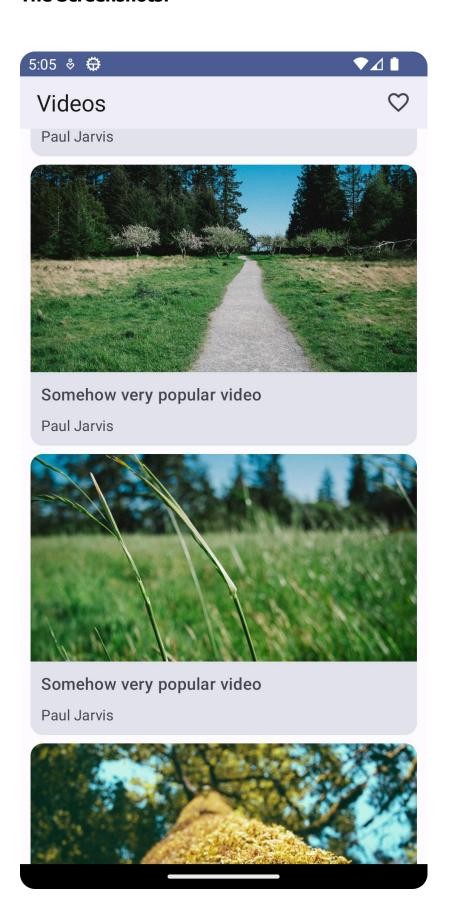
```
4. Main Page UI
package santhosh 20bit0185.presentation.activity
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface
import androidx.compose.ui.Modifier
import dagger.hilt.android.AndroidEntryPoint
import santhosh 20bit0185.presentation.navigation.Navigation
import
santhosh 20bit0185.presentation.theme.OnlineVideoPlayerTheme
@AndroidEntryPoint
class Main : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            OnlineVideoPlayerTheme {
                Surface(
                    color = MaterialTheme.colorScheme.background,
                    modifier = Modifier.fillMaxSize()
                    Navigation()
                }
            }
        }
    }
}
5. Video List View
package santhosh 20bit0185.presentation.viewmodel
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.setValue
import androidx.lifecycle.SavedStateHandle
import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import androidx.paging.PagingData
import androidx.paging.cachedIn
import dagger.hilt.android.lifecycle.HiltViewModel
import kotlinx.coroutines.flow.Flow
import santhosh 20bit0185.domain.model.VideoModel
import santhosh 20bit0185.domain.usecase.GetVideos
import javax.inject.Inject
@HiltViewModel
```

class VideoListViewModel @Inject constructor(

```
getVideos: GetVideos,
    private val handle: SavedStateHandle,
) : ViewModel() {
    companion object {
        private const val HEART CHECKED = "heartChecked"
        private const val HEART CHECKED DEFAULT = false
    }
    val videos: Flow<PagingData<VideoModel>> =
getVideos().cachedIn(viewModelScope)
    var heartChecked: Boolean by
mutableStateOf(handle.get<Boolean>(HEART CHECKED) ?:
HEART CHECKED DEFAULT)
       private set
    fun onHeartCheckedChange() {
        handle[HEART CHECKED] = !heartChecked
        heartChecked = !heartChecked
    }
}
6. Main
package santhosh 20bit0185.presentation.activity;
import android.content.Context;
import androidx.activity.ComponentActivity;
import androidx.activity.contextaware.OnContextAvailableListener;
import androidx.lifecycle.ViewModelProvider;
import
dagger.hilt.android.internal.lifecycle.DefaultViewModelFactories;
import
dagger.hilt.android.internal.managers.ActivityComponentManager;
import dagger.hilt.internal.GeneratedComponentManagerHolder;
import dagger.hilt.internal.UnsafeCasts;
import java.lang.Object;
import java.lang.Override;
/**
* A generated base class to be extended by the
@dagger.hilt.android.AndroidEntryPoint annotated class. If using
the Gradle plugin, this is swapped as the base class via bytecode
transformation.
public abstract class Hilt Main extends ComponentActivity
implements GeneratedComponentManagerHolder {
 private volatile ActivityComponentManager componentManager;
 private final Object componentManagerLock = new Object();
 private boolean injected = false;
```

```
Hilt Main() {
    super();
    initHiltInternal();
  Hilt Main(int contentLayoutId) {
    super(contentLayoutId);
    _initHiltInternal();
  private void initHiltInternal() {
    addOnContextAvailableListener(new
OnContextAvailableListener() {
      @Override
      public void onContextAvailable(Context context) {
        inject();
    });
  }
  @Override
  public final Object generatedComponent() {
    return this.componentManager().generatedComponent();
  }
  protected ActivityComponentManager createComponentManager() {
   return new ActivityComponentManager(this);
  @Override
  public final ActivityComponentManager componentManager() {
    if (componentManager == null) {
      synchronized (componentManagerLock) {
        if (componentManager == null) {
          componentManager = createComponentManager();
        }
    return componentManager;
  protected void inject() {
    if (!injected) {
      injected = true;
      ((Main GeneratedInjector)
this.generatedComponent()).injectMain(UnsafeCasts.<Main>unsafeCas
t(this));
    }
  }
  @Override
  public ViewModelProvider.Factory
getDefaultViewModelProviderFactory() {
    return DefaultViewModelFactories.getActivityFactory(this,
super.getDefaultViewModelProviderFactory());
```

#### The Screenshots:





## Videos





Somehow very popular video

Alejandro Escamilla



Somehow very popular video

Alejandro Escamilla





## Somehow very popular video

Christopher Sardegna



### Somehow very popular video

Luke Chesser



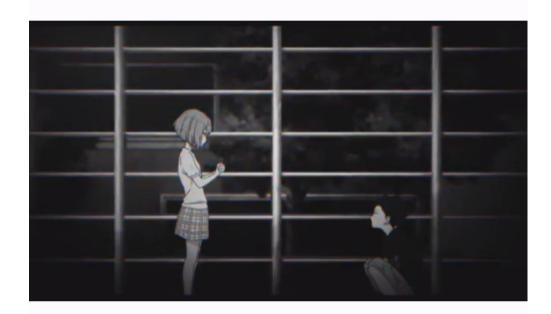
Somehow very popular video

Margaret Barley





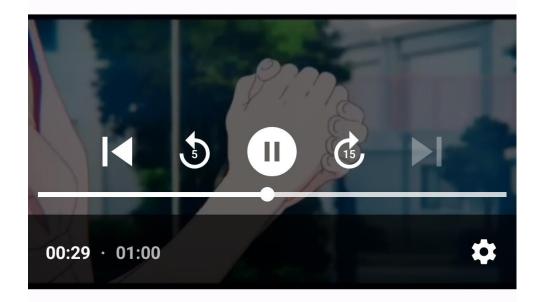
# ← Watch video







## ← Watch video







## ← Watch video

