

# Owl-M: A Material Design Study App

## Introduction

### 1.1. Overview

#### Project Description

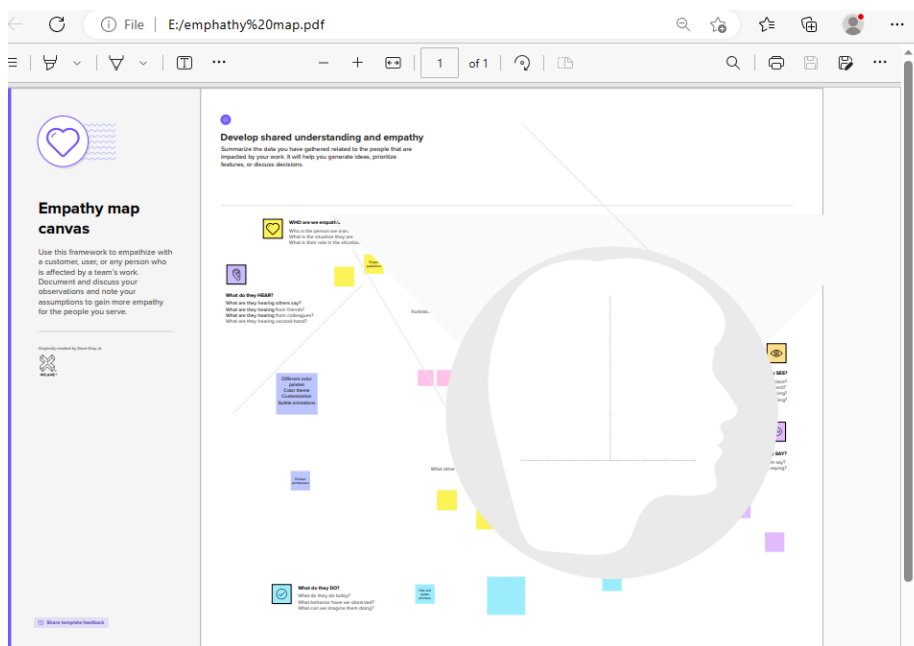
Owl-M: A Material Design Study App can be used as a study app that provides the study materials for many educational areas. Android Jetpack Compose is used to build a UI for a Owl-M: a material design study app.

#### Purpose

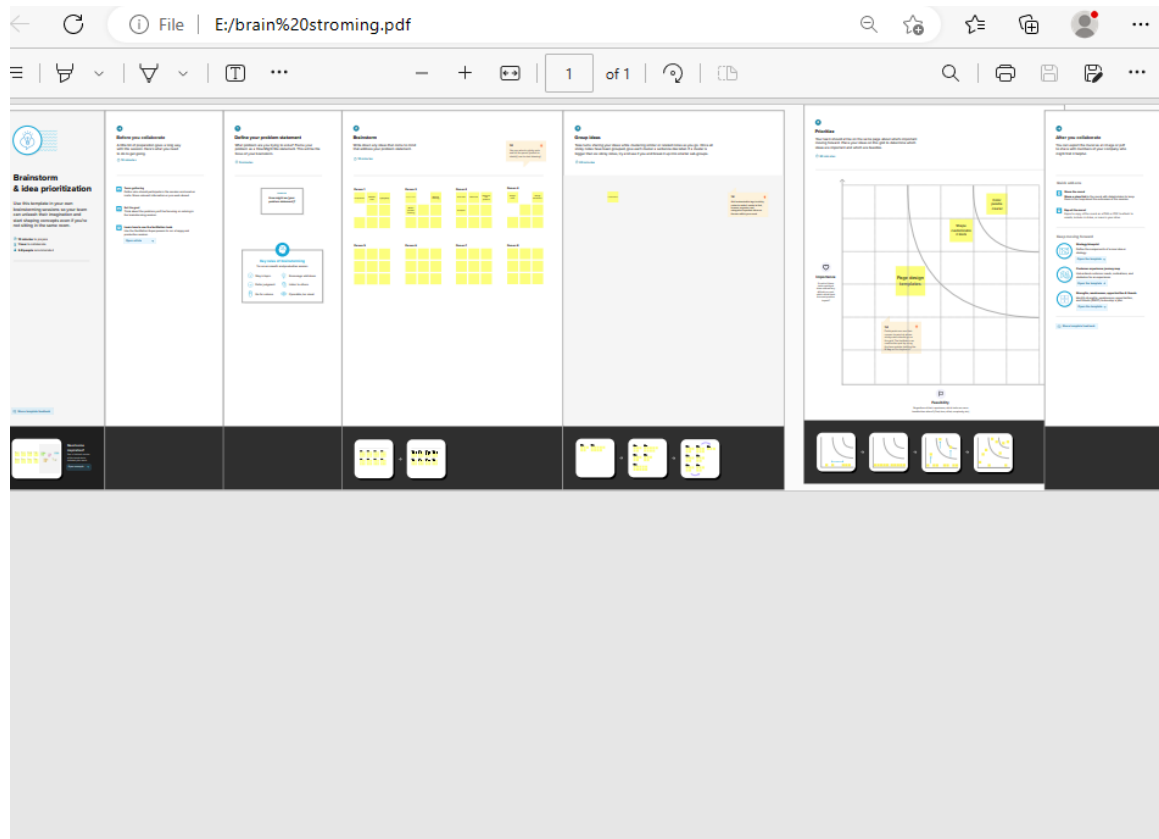
The app provides study materials for many technical, arts and architectural fields. The learners could choose their field of interest and go on with the learning process.

#### Problem Definition and thinking

### 2.1. Empathy Map

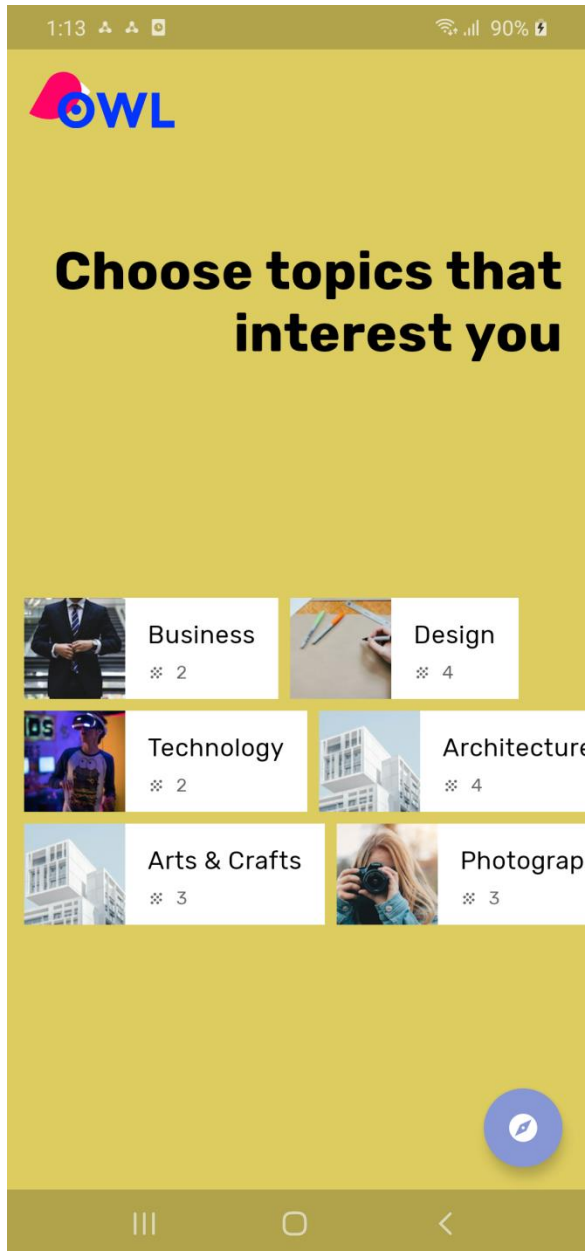


## 2.2. Ideation and Brainstorming Map



## Result

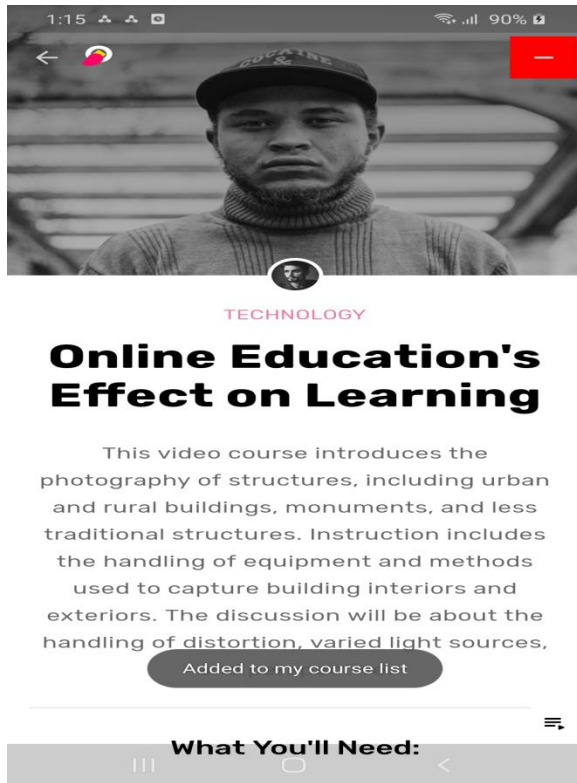
### Topic Select



### My Course



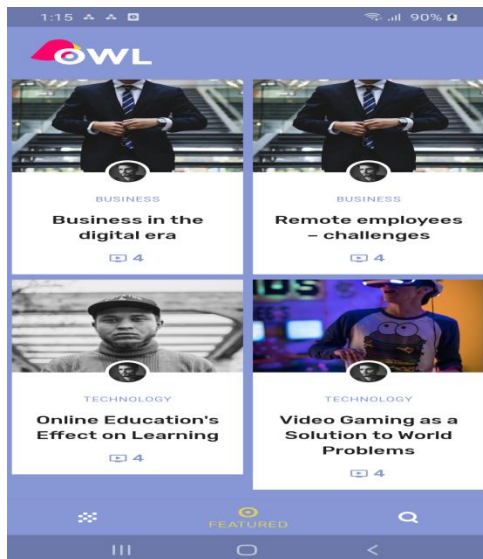
## Detail



## Featured



## Lesson



## Advantages

The study app provides a permanent source of education with convenient accessibility. It is a cost effective way of systematic and improved learning ability

## Disadvantages

The app provides learning facilities without any physical interaction and there is no direct response. Software and hardware issues may also affect the learning process.

## Conclusion

Learning through online technology has made the learning process faster, easily understandable and convenient. Many institutions have made it a necessity for their teachers and students to make the best use of apps. With increasing use of learning platforms, the institutions can aid benefits such as lower cost of operations, higher efficiency, easier management, and other many business benefits.

## Future Scope

The app could be modified to get feedback from the users and to provide better on look to the emerging technologies.

## Appendix

### A. Source Code

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">

    <uses-permission android:name="android.permission.INTERNET" />

    <application
        android:name="com.devikumari.courses.base.CourseApplication"
        android:allowBackup="false"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:supportRtl="true"
        android:theme="@style/Theme.Course"
        android:usesCleartextTraffic="true"
        tools:targetApi="31" >
        <activity
```

```

    android:name="com.devikumari.courses.base.MainActivity"
    android:exported="true" >
    <intent-filter>
    <action android:name="android.intent.action.MAIN" />

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

</manifest>

```

## build.gradle

```

buildscript{
    ext{
        gradle_version = '7.4.1'
        kotlin_version = '1.8.0'
        google_services_version = '4.3.14'
        compose_bom_version = '2023.01.00'
        material3_version = '1.1.0-beta01'
        material_version = '1.4.0'
        compose_version = '1.4.0'
        hilt_version = '2.45'
        hilt_navigation_compose_version = '1.0.0'
        core_version = '1.8.0'
        firebase_bom_version = '31.2.3'
        constraintlayout_version = '1.0.1'
        coil_version = '2.2.2'
        accompanist_pager_version = '0.18.0'
        materialchip_version = '3.0.5'
        navigation_version = '2.6.0-alpha05'
        preview_version = '1.4.0'
        foundation_version = '1.3.0'
    }
    dependencies {
        classpath"com.google.gms:google-services:$google_services_version"
        classpath"com.google.dagger:hilt-android-gradle-plugin:$hilt_version"
    }
}

plugins {
    id 'com.android.application' version "${gradle_version}" apply false
    id 'com.android.library' version "${gradle_version}" apply false
    id 'org.jetbrains.kotlin.android' version "${kotlin_version}" apply false
}

task clean(type: Delete) {
    delete rootProject.buildDir
}

```

## settings.gradle

```

pluginManagement{
    repositories {
        google()

```

```

mavenCentral()
gradlePluginPortal()
}
}
dependencyResolutionManagement{
repositoriesMode.set(RepositoriesMode.FAIL_ON_PROJECT_REPOS)
    repositories {
google()
mavenCentral()
}
}
rootProject.name = "Courses"
include ':app'

```

## build.gradle(app)

```

plugins {
id "com.android.application"
id "kotlin-android"
id "kotlin-kapt"
id "com.google.gms.google-services"
id "dagger.hilt.android.plugin"
id "kotlin-parcelize"
}

android {
compileSdk33

defaultConfig{
applicationId"com.devikumari.courses"
minSdk21
targetSdk33
versionCode1
versionName"1.0"

testInstrumentationRunner"androidx.test.runner.AndroidJUnitRunner"
}

buildTypes{
release {
minifyEnabledfalse
proguardFilesgetDefaultProguardFile('proguard-android-optimize.txt'),
'proguard-rules.pro'
}
}

compileOptions{
sourceCompatibility JavaVersion.VERSION_11
targetCompatibility JavaVersion.VERSION_11
}

kotlinOptions{
jvmTarget = JavaVersion.VERSION_11
}

buildFeatures{
compose true
}

composeOptions{

```

```

kotlinCompilerExtensionVersioncompose_version
}
namespace 'com.devikumari.courses'
}

dependencies {
    //Compose
    implementation platform("androidx.compose:compose-bom:$compose_bom_version")
        implementation "androidx.compose.material3:material3:$material3_version"
    implementation "androidx.compose.material:material:$material_version"
    implementation "androidx.compose.material:material-icons-
extended:$material_version"
    //Hilt
    implementation "com.google.dagger:hilt-android:$hilt_version"
    kapt"com.google.dagger:hilt-android-compiler:$hilt_version"
    //Hilt Navigation Compose
    implementation "androidx.hilt:hilt-navigation-
compose:$hilt_navigation_compose_version"
    implementation"androidx.core:core-ktx:$core_version"
    //Firebase
    implementation platform("com.google.firebase:firebase-
bom:$firebase_bom_version")
    implementation"com.google.firebase:firebase-firestore-ktx"
    //ConstraintLayout
    implementation("androidx.constraintlayout:constraintlayout-
compose:$constraintlayout_version")
    //Image Loading
    implementation("io.coil-kt:coil-compose:$coil_version")
    //pager
    implementation("com.google.accompanist:accompanist-
pager:$accompanist_pager_version")
    //chips
    implementation("com.robertlevonyan.compose:materialchip:$materialchip_version
")
    //navigation
    implementation("androidx.navigation:navigation-compose:$navigation_version")
        implementation("androidx.compose.ui:ui-tooling-preview:$preview_version")

    implementation("androidx.compose.foundation:foundation:$foundation_version")
}

gradle-wrapper properties
#Wed Mar 22 22:44:54 IST 2023
distributionBase=GRADLE_USER_HOME
distributionUrl=https\://services.gradle.org/distributions/gradle-7.5-bin.zip
distributionPath=wrapper/dists
zipStorePath=wrapper/dists
zipStoreBase=GRADLE_USER_HOME

```