

BAB V

KESIMPULAN DAN SARAN

V.1. Kesimpulan

Dari hasil penelitian yang telah dilakukan dihasilkan kesimpulan sebagai berikut :

1. Dengan menggunakan konsep penyampaian informasi melalui *virtual tour* Univ. Potensi Utama dapat memberikan gambaran kondisi dan fasilitas yang disajikan secara interaktif.
2. Konsep penyampain inforamasi tidak hanya bisa ditampilkan dalam bentuk foto, brosur dan teks, namun dapat ditampilkan juga dalam bentuk foto 360.
3. Penerapan konsep *virtual tour* dapat menghasilkan informasi dalam bentuk foto yang dapat berputar dan berkeliling sesuai dengan keinginan pengguna.
4. Dengan *virtual tour* pengguna aplikasi dibuat seakan berada dilokasi sesungguhnya.

V.2. Saran

Berikut adalah merupakan saran untuk mengembangkan aplikasi :

1. Pada aplikasi belum ada disajikan mengenai informasi secara tertulis terutama mengenai proses pendaftaran.
2. Sebaiknya ditambahkan media lain seperti *background* musik, penjelasan naraator dan juga video singkat sehingga menghasilkan sebuah informasi yang baik.
3. Objek *virtual* yang disajikan belum mencakup ruangan atau lokasi lain dari fasilitas kampus.

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packagecom.example.virtualtourupu;

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.app.Activity;
import android.app.ProgressDialog;
import android.content.Intent;
import android.graphics.Bitmap;
import android.net.Uri;
import android.os.Build;
import android.os.Bundle;
import android.os.Environment;
import android.os.Parcelable;
import android.provider.MediaStore;
import android.util.Log;
import android.view.KeyEvent;
import android.view.View;
import android.webkit.ValueCallback;
import android.webkit.WebChromeClient;
import android.webkit.WebSettings;
import android.webkit.WebView;
import android.webkit.WebViewClient;
import android.widget.Toast;
```

```
import java.io.File;
import java.io.IOException;
import java.text.SimpleDateFormat;
import java.util.Date;
```

```
public class TourActivity extends AppCompatActivity {
```

```
    private static final int INPUT_FILE_REQUEST_CODE = 1;
    private static final int FILECHOOSER_RESULTCODE = 1;
    private static final String TAG = MainActivity.class.getSimpleName();
    private WebView webView;
    private WebSettings webSettings;
    private ValueCallback<Uri> mUploadMessage;
    private Uri mCapturedImageURI = null;
    private ValueCallback<Uri[]> mFilePathCallback;
    private String mCameraPhotoPath;

    @Override
    public void onActivityResult(int requestCode, int resultCode, Intent data) {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.LOLLIPOP) {
            if (requestCode != INPUT_FILE_REQUEST_CODE || mFilePathCallback == null) {
                super.onActivityResult(requestCode, resultCode, data);
                return;
            }
            Uri[] results = null;
```

```

        // Check that the response is a good one
        if (resultCode == Activity.RESULT_OK) {
            if (data == null) {
                // If there is not data, then we may have taken a photo
                if (mCameraPhotoPath != null) {
                    results = new Uri[]{Uri.parse(mCameraPhotoPath)};
                }
            } else {
                String dataString = data.getDataString();
                if (dataString != null) {
                    results = new Uri[]{Uri.parse(dataString)};
                }
            }
        }
        mFilePathCallback.onReceiveValue(results);
        mFilePathCallback = null;
    } else if (Build.VERSION.SDK_INT <= Build.VERSION_CODES.KITKAT) {
        if (requestCode != FILECHOOSER_RESULTCODE || mUploadMessage == null) {
            super.onActivityResult(requestCode, resultCode, data);
            return;
        }
        if (requestCode == FILECHOOSER_RESULTCODE) {
            if (null == this.mUploadMessage) {
                return;
            }
            Uri result = null;
            try {
                if (resultCode != RESULT_OK) {
                    result = null;
                } else {
                    // retrieve from the private variable if the intent is null
                    result = data == null ? mCapturedImageURI : data.getData();
                }
            } catch (Exception e) {
                Toast.makeText(getApplicationContext(), "activity :" + e,
                    Toast.LENGTH_LONG).show();
            }
            mUploadMessage.onReceiveValue(result);
            mUploadMessage = null;
        }
    }
    return;
}

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);

```

```

setContentView(R.layout.activity_tour);
webView = (WebView) findViewById(R.id.webview);
webSettings = webView.getSettings();
webSettings.setJavaScriptEnabled(true);
webSettings.setLoadWithOverviewMode(true);
webSettings.setAllowFileAccess(true);
webView.setWebViewClient(new Client());
webView.setWebChromeClient(new ChromeClient());
if (Build.VERSION.SDK_INT >= 19) {
webView.setLayerType(View.LAYER_TYPE_HARDWARE, null);
}
else if (Build.VERSION.SDK_INT >= 11 && Build.VERSION.SDK_INT < 19) {
webView.setLayerType(View.LAYER_TYPE_SOFTWARE, null);
}
//webView.loadUrl("http://103.131.99.204/file/"); //change with your website
webView.loadUrl("https://tourpotensi.000webhostapp.com/"); //change with your website
}

private File createImageFile() throws IOException {
    // Create an image file name
    String timeStamp = new SimpleDateFormat("yyyyMMdd_HH:mm:ss").format(new Date());
    String imageFileName = "JPEG_" + timeStamp + "_";
    File storageDir = Environment.getExternalStoragePublicDirectory(
Environment.DIRECTORY_PICTURES);
    File imageFile = File.createTempFile(
imageFileName, /* prefix */
        ".jpg", /* suffix */
storageDir /* directory */
    );
    return imageFile;
}

public class ChromeClient extends WebChromeClient {
    // For Android 5.0
    public boolean onShowFileChooser(WebView view, ValueCallback<Uri[]> filePath,
WebChromeClient.FileChooserParams fileChooserParams) {
        // Double check that we don't have any existing callbacks
        if (mFilePathCallback != null) {
            mFilePathCallback.onReceiveValue(null);
        }
        mFilePathCallback = filePath;
        Intent takePictureIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        if (takePictureIntent.resolveActivity(getPackageManager()) != null) {
            // Create the File where the photo should go
            File photoFile = null;
            try {
                photoFile = createImageFile();
                takePictureIntent.putExtra("PhotoPath", mCameraPhotoPath);
            }

```

```

        } catch (IOException ex) {
            // Error occurred while creating the File
            Log.e(TAG, "Unable to create Image File", ex);
        }
        // Continue only if the File was successfully created
        if (photoFile != null) {
            mCameraPhotoPath = "file:" + photoFile.getAbsolutePath();
            takePictureIntent.putExtra(MediaStore.EXTRA_OUTPUT,
                Uri.fromFile(photoFile));
        } else {
            takePictureIntent = null;
        }
    }

    Intent contentSelectionIntent = new Intent(Intent.ACTION_GET_CONTENT);
    contentSelectionIntent.addCategory(Intent.CATEGORY_OPENABLE);
    contentSelectionIntent.setType("application/*");
    Intent[] intentArray;
    if (takePictureIntent != null) {
        intentArray = new Intent[]{takePictureIntent};
    } else {
        intentArray = new Intent[0];
    }

    Intent chooserIntent = new Intent(Intent.ACTION_CHOOSER);
    chooserIntent.putExtra(Intent.EXTRA_INTENT, contentSelectionIntent);
    chooserIntent.putExtra(Intent.EXTRA_TITLE, "PilihFile");
    chooserIntent.putExtra(Intent.EXTRA_INITIAL_INTENTS, intentArray);
    startActivityForResult(chooserIntent, INPUT_FILE_REQUEST_CODE);
    return true;
}

// openFileChooser for Android 3.0+
public void openFileChooser(ValueCallback<Uri>uploadMsg, String acceptType) {
    mUploadMessage = uploadMsg;
    // CreateAndroidExampleFolder at sdcard
    // CreateAndroidExampleFolder at sdcard
    File imageStorageDir = new File(
        Environment.getExternalStoragePublicDirectory(
            Environment.DIRECTORY_PICTURES)
            , "AndroidExampleFolder");
    if (!imageStorageDir.exists()) {
        // CreateAndroidExampleFolder at sdcard
        imageStorageDir.mkdirs();
    }
    // Create camera captured image file path and name
    File file = new File(
        imageStorageDir + File.separator + "IMG_"
            + String.valueOf(System.currentTimeMillis())

```

```

        + ".jpg");
mCapturedImageURI = Uri.fromFile(file);
    // Camera capture image intent
final Intent captureIntent = new Intent(
    android.provider.MediaStore.ACTION_IMAGE_CAPTURE);
captureIntent.putExtra(MediaStore.EXTRA_OUTPUT, mCapturedImageURI);
    Intent i = new Intent(Intent.ACTION_GET_CONTENT);
i.addCategory(Intent.CATEGORY_OPENABLE);
i.setType("image/*");
    // Create file chooser intent
    Intent chooserIntent = Intent.createChooser(i, "Image Chooser");
    // Set camera intent to file chooser
chooserIntent.putExtra(Intent.EXTRA_INITIAL_INTENTS
    , new Parcelable[] { captureIntent });
    // On select image call onActivityResult method of activity
startActivityForResult(chooserIntent, FILECHOOSER_RESULTCODE);
    }
    // openFileChooser for Android < 3.0
public void openFileChooser(ValueCallback<Uri>uploadMsg) {
    openFileChooser(uploadMsg, "");
    }
    //openFileChooser for other Android versions
public void openFileChooser(ValueCallback<Uri>uploadMsg,
    String acceptType,
    String capture) {
    openFileChooser(uploadMsg, acceptType);
    }
    }
public boolean onKeyDown(int keyCode, KeyEvent event) {
    // Check if the key event was the Back button and if there's history
    if ((keyCode == KeyEvent.KEYCODE_BACK) && webView.canGoBack()) {
        webView.goBack();
        return true;
    }
    // If it wasn't the Back key or there's no web page history, bubble up to the default
    // system behavior (probably exit the activity)
    return super.onKeyDown(keyCode, event);
    }
public class Client extends WebViewClient {
    ProgressDialog progressDialog;
    public boolean shouldOverrideUrlLoading(WebView view, String url) {
        // If url contains mailto link then open Mail Intent
        if (url.contains("mailto:")) {
            // Could be cleverer and use a regex
            // Open links in new browser
            view.getContext().startActivity(

```

```

new Intent(Intent.ACTION_VIEW, Uri.parse(url)));
    // Here we can open new activity
return true;
}else {
    // Stay within this webview and load url
view.loadUrl(url);
return true;
}
}
//Show loader on url load
/* public void onPageStarted(WebView view, String url, Bitmap favicon) {
    // Then show progress Dialog
    // in standard case YourActivity.this
if (progressDialog == null) {
progressDialog = new ProgressDialog(TourActivity);
progressDialog.setMessage("Loading...");
progressDialog.show();
}
}*/
// Called when all page resources loaded
/* public void onPageFinished(WebView view, String url) {
try {
    // Close progressDialog
if (progressDialog.isShowing()) {
progressDialog.dismiss();
progressDialog = null;
}
} catch (Exception exception) {
exception.printStackTrace();
}
}*/
}
}

packagecom.example.virtualtourupu;

importandroidx.appcompat.app.AppCompatActivity;

importandroid.content.Intent;
importandroid.os.Bundle;
importandroid.view.View;

public class MainActivity extends AppCompatActivity {

    @Override
protected void onCreate

```

```

public void Potensi(View vate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
}iew){
    Intent intentPotensi = new Intent(MainActivity.this, PotensiActivity.class);
    startActivity(intentPotensi);
}

public void Panduan(View view){
    Intent intentPanduan = new Intent(MainActivity.this, PanduanActivity.class);
    startActivity(intentPanduan);
}

public void Tour(View view){
    Intent intentTour = new Intent(MainActivity.this, TourActivity.class);
    startActivity(intentTour);
}

public void About(View view){
    Intent intentAbout = new Intent(MainActivity.this, AboutActivity.class);
    startActivity(intentAbout);
}
}

```