LAPORAN UJIAN AKHIR SEMESTER

KAJIAN.ID

Disusun untuk memenuhi tugas akhir daring Pemrograman Mobile 2 oleh Bapak Nandang Hermanto, M.Kom.



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BAB I PENDAHULUAN

A. LATAR BELAKANG

Di masa pandemi ini, kegiatan sehari-hari yang dilakukan masyarakat terbatasi. Masyarakat hanya boleh keluar rumah jika ada kepentingan yang mendesak. Jika keluar rumah, masyarakat tidak boleh berkerumun atau harus jaga jarak untuk mencegah penyebaran virus COVID-19.

Kajian adalah kegiatan menyampaikan ilmu agama Islam yang dilakukan oleh pembicara ke masyarakat. Dalam situasi normal, masyarakat tentunya akan datang ke lokasi di mana diadakannya kajian. Setiap hari, di suatu daerah bisa ada satu atau beberapa tempat yang mengadakan kajian. Jadwal kajian bisa didapat oleh masyarakat dari media sosial. Hal tersebut menjadi kurang efektif, karena masyarakat akan berulang kali melihat jadwal kajian dengan membuka dan menutup informasi yang didapatkan dari media sosial. Belum lagi jika masyarakat lupa menyimpan informasi jadwal kajian.

Dalam membantu pemerintah untuk mengurangi rantai penyebaran virus corona, semua kegiatan yang menimbulkan kerumunan massa sebaiknya dihindari, seperti dalam pelaksanaan kajian Yang selalu dihadiri oleh Massa Yang berkumpul dalam jumlah banyak. Hal tersebut tentunya sangat bertentangan dengan program pemerintah untuk memutus rantai penyebaran COVID-19. Dengan kondisi tersebut, kajian perlu dilaksanakan secara online. Masyarakat tetap bisa mengikuti kajian Yang diinginkan tanpa rasa khawatir akan penyebaran COVID-19. Untuk menghindari kerumunan di masa pandemi seperti saat ini, kajian dilakukan dengan bersifat online. hal tersebut cukup efektif untuk mengurangi penyebaran virus corona dan tetap melaksanakan kajian yang sudah dijadwalkan.

B. RUMUSAN MASALAH

- a. Bagaimana cara efektif agar masyarakat tetap melakukan kajian rutin dikala pandemi?
- b. Bagaimana cara masyarakat mendapatkan informasi jadwal kajian secara online tanpa harus melihat sosial media berkali-kali?
- c. Bagaimana cara masyarakat membaca artikel Islami secara offline dengan mudah?
- d. Apa saja fitur-fitur dalam aplikasi Kajian.ID User?
- e. Bagaimana cara menggunakan aplikasi Kajian.ID User?
- f. Bagaimana cara ustadz atau ustadzah menyampaikan kajian yang dilaksanakan dikala pandemi?
- g. Bagaimana cara ustadz atau ustadzah menulis artikel Islami dengan mudah?
- h. Apa saja fitur-fitur dalam aplikasi Kajian.ID Ustadz?
- i. Bagaimana cara menggunakan aplikasi Kajian.ID Ustadz?

C. TUJUAN

- a. Memudahkan masyarakat tetap melakukan kajian rutin dikala pandemi.
- b. Memudahkan masyarakat mendapatkan informasi jadwal kajian secara online tanpa harus melihat sosial media berkali-kali.
- c. Memudahkan masyarakat membaca artikel Islami secara offline dengan mudah.
- d. Memudahkan masyarakat memahami fitur-fitur dalam aplikasi Kajian.ID User.
- e. Memudahkan masyarakat memahami aplikasi Kajian.ID User.

- f. Memudahkan ustadz atau ustadzah menyampaikan kajian yang dilaksanakan ketika pandemi.
- g. Memudahkan ustadz atau ustadzah menulis artikel Islami dengan mudah.
- h. Memudahkan ustadz atau udtazah memahami fitur-fitur dalam aplikasi Kajian.ID Ustadz.
- i. Memudahkan ustadz atau udtazah menggunakan aplikasi Kajian.ID Ustadz.

BAB II PEMBAHASAN

A. KAJIAN.ID USER

Aplikasi Kajian.ID User ditujukan untuk seluruh kalangan anak muda sampai orang tua untuk mengetahui info kajian yang telah dijadwalkan agar sebagai umat Islam bisa lebih tanggap mengikuti kajian tanpa bingung mencari jadwal kajian secara manual dan dapat lebih memperdalam wawasan agama Islam dalam kajian yang tersedia. Aplikasi Kajian.ID User ini dapat melihat artikel ataupun kajian yang diadakan atau akan dilaksanakan.

Berikut fitur-fitur yang dibawakan di Kajian.ID User.

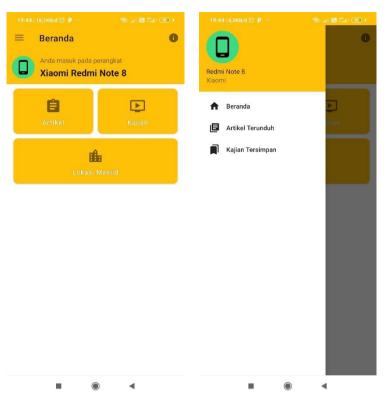
- a. Menyimpan artikel dan pengingat kajian Islami,
- b. menghapus artikel atau kajian yang telah disimpan,
- c. Melihat masjid atau lokasi yang biasanya diadakan kajian,
- d. Tema terang atau gelap yang membantu pengguna aplikasi ini mengurangi cahaya yang ditangkap oleh mata, dan
- e. Membagikan artikel atau kajian ke media sosial. Berikut adalah tata cara penggunaan aplikasi Kajian.ID User.
- a. Langkah Awal Sebelum Menggunakan Aplikasi

Saat pertama kali menginstal aplikasi ini, Anda akan dikenali sekilas mengenai aplikasi ini. Tunggu loading hingga selesai. Jika sudah selesai, aplikasi akan masuk ke tampilan awal.



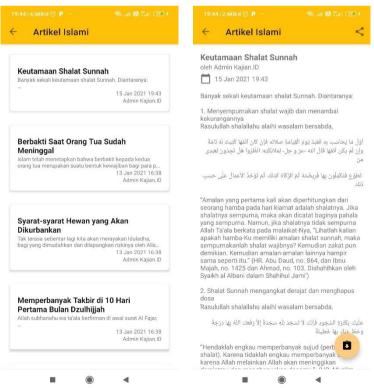
b. Pengenalan Menu

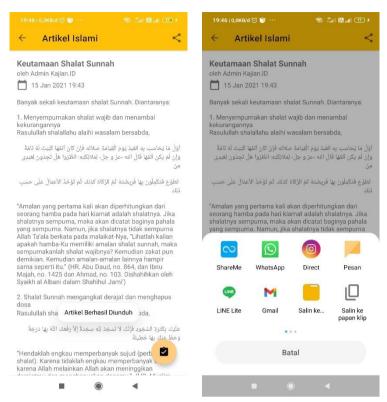
Di dalam tampilan awal, terdapat tiga fitur, yaitu fitur Artikel, Kajian, dan Lokasi Masjid. Selain fitur tersebut, ada juga fitur lain, yaitu Beranda, Artikel Terunduh, dan Kajian Tersimpan. Di tampilan awal juga terdapat nama perangkat yang menggunakan aplikasi Kajian.ID User.



c. Cara Membaca, Menyimpan, dan Menyebarluaskan Artikel

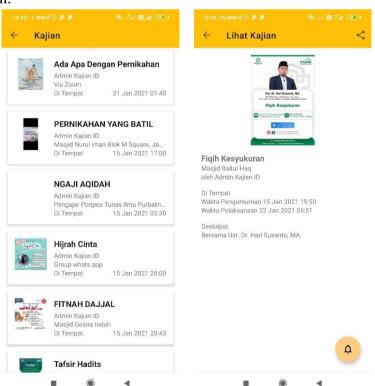
Di tampilan awal, pilih tombol "Artikel" lalu pilih artikel yang akan dilihat. Simpan artikel dengan cara memilih tombol "Simpan Post" di pojok kanan bawah layar. Untuk membagikan atau menyebarluaskan artikel yang ada, cukup tekan tombol sana di pojok kanan atas layar saat Anda membaca artikel dan pilih ke aplikasi mana artikel tersebut akan dibagikan.

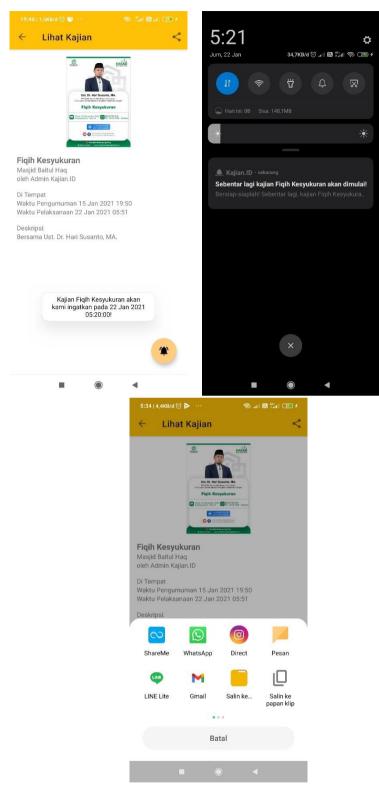




d. Cara Membaca, Menyimpan atau Mengingat, dan Menyebarluaskan Kajian

Di tampilan awal, pilih tombol "Kajian" lalu pilih kajian yang akan dilihat. Untuk mengingat kajian, pilih tombol "Lonceng Post" di pojok kanan bawah layar. Jika sudah masuk waktu kajian, akan muncul notifikasi sebagai aksi dari pengingat tersebut. Untuk membagikan atau menyebarluaskan kajian yang ada, cukup tekan tombol di pojok kanan atas layar saat Anda membaca kajian dan pilih ke aplikasi mana kajian tersebut akan dibagikan.





e. Mencari Lokasi Masjid Terdekat

Di tampilan awal, pilih tombol "Lokasi Masjid". Tombol tersebut akan membawa Anda ke Google Maps dan akan menampilkan lokasi masjid terdekat.



f. Jika Anda ingin melihat artikel yang sudah disimpan, pilih garis tiga di pojok kiri atas kemudian pilih fitur "Artikel Terunduh". Artikel tersebut dapat dibaca secara offline.



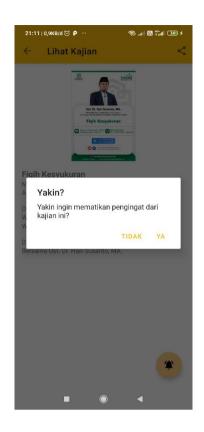
g. Jika Anda ingin menghapus artikel yang sudah dibaca, pilih artikel tersebut kemudian tekan tombol di pojok kanan bawah layar. Lalu tekan "YA".



h. Jika Anda ingin melihat pengingat kajian yang sudah disimpan, pilih garis tiga di pojok kiri atas kemudian pilih fitur "Kajian Tersimpan".



i. Jika Anda ingin menghapus pengingat kajian yang sudah disimpan, pilih kajian tersebut kemudian tekan tombol pada pojok kanan bawah layar. Lalu tekan "YA".



B. KAJIAN.ID USTADZ

Aplikasi Kajian.ID Ustadz ditujukan untuk para ulama, ustadz atau ustadzah, *event organizer* keagamaan, maupun orang yang mengelola masjid tersebut untuk menyebarluaskan kajian yang mereka adakan. Aplikasi Kajian.ID Ustadz ini dapat mengelola artikel ataupun kajian yang diadakan atau akan dilaksanakan. Berikut fitur-fitur yang dibawakan di Kajian.ID Ustadz.

- a. Menambah, mengubah, atau menghapus artikel Islami,
- b. Menambah, mengubah, atau menghapus kajian yang akan atau telah dilaksanakan,
- c. Mengelola masjid atau lokasi yang biasanya diadakan kajian,
- d. Tema terang atau gelap yang membantu pengguna aplikasi ini mengurangi cahaya yang ditangkap oleh mata,
- e. Mengunggah alamat video atau live streaming dari YouTube, dan
- f. Membagikan artikel atau kajian ke media sosial. Berikut adalah tata cara penggunaan aplikasi Kajian.ID Ustadz.
- a. Langkah Awal Sebelum Menggunakan Aplikasi
 - a) Saat pertama kali menginstal aplikasi ini, Anda akan dikenali sekilas mengenai aplikasi ini. Tekan tombol → untuk membuka halaman selanjutnya atau tekan tombol ✓ bila layar perkenalan sudah selesai.



b) Berikan izin pengaksesan media penyimpanan di *smartphone* Anda. Izin ini hanya untuk membaca data foto yang akan Anda unggah untuk keperluan menyebarluaskan informasi kajian di aplikasi ini.



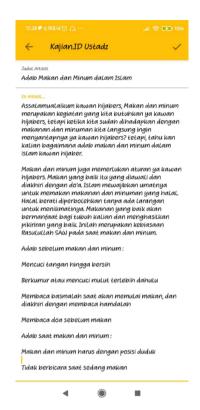
c) Setelah layar perkenalan selesai, Anda akan diarahkan menuju layar masuk sebagai Ustadz. Silakan masukkan username dan kata sandi (*password*) dalam kolom yang sudah disediakan. Apabila Anda belum memiliki akun, Anda bisa menekan tombol "Daftar" untuk menuju aplikasi WhatsApp dan kirim pesan serta isi sesuai format yang disediakan. Tim kami akan membuatkan akun untuk Anda. Setelah selesai, tekan tombol "Login".



- d) Aplikasi akan menyimpan status login terakhir Anda dan akan selalu diingat sampai Anda melakukan *logout* dari aplikasi.
- b. Cara Mengunggah Artikel Baru, Membaca Artikel, dan Menyebarluaskan Artikel Anda
 - a) Di layar utama, pilih tab "Artikel" dan tekan tombol "Tambah Post" di pojok kanan bawah layar.



b) Silakan isi judul dan artikel pada halaman yang sudah disediakan. Setelah selesai mengisi, tekan tombol ✓ di pojok kanan atas layar.



c) Artikel berhasil diunggah. Untuk memperbarui daftar artikel, tarik daftar artikel dari atas ke bawah layar sampai muncul animasi indikator *loading*.



- d) Untuk melihat isi artikel yang sudah atau pernah Anda buat, cukup pilih artikel mana yang akan Anda baca.
- e) Untuk membagikan atau menyebarluaskan artikel yang Anda buat, cukup tekan tombol

 di pojok kanan atas layar saat Anda membaca artikel dan pilih ke aplikasi mana artikel Anda akan dibagikan.



- c. Cara Mengubah Judul atau Isi Artikel
 - a) Di layar utama, pilih tab "Artikel" dan pilih artikel mana yang ingin Anda ubah judul atau isinya.
 - b) Tekan tombol 🔪 di atas layar.



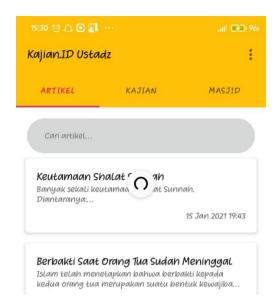
c) Silahkan ubah judul atau isi artikel tersebut. Tekan tombol ✓ di pojok kanan atas layar apabila sudah selesai mengubah artikel.



- d. Cara menghapus artikel
 - a) Di layar utama, pilih tab "Artikel" dan pilih artikel mana yang ingin Anda hapus.
 - b) Tekan tombol adi atas layar dan tekan tombol "YA" untuk menghapus artikel.



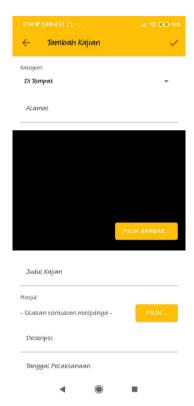
c) Artikel berhasil dihapus. Untuk memperbarui daftar artikel, tarik daftar artikel dari atas ke bawah layar sampai muncul animasi indikator loading.



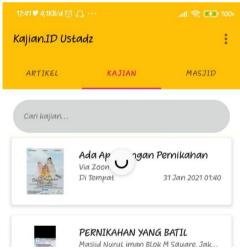
- e. Cara mengunggah dan menyebarluaskan informasi kajian
 - a) Di layar utama, pilih tab "Kajian" dan tekan tombol "Tambah Kajian" di pojok kanan bawah layar.



b) Silahkan isi informasi mengenai kajian pada halaman yang sudah disediakan. Setelah selesai mengisi, tekan tombol √ di pojok kanan atas layar.



c) Kajian berhasil diunggah. Untuk memperbarui daftar kajian, tarik daftar kajian dari atas ke bawah layar sampai muncul animasi indikator *loading*.



- d) Untuk melihat isi kajian yang sudah atau pernah Anda buat, cukup pilih kajian mana yang akan Anda baca.
- e) Untuk membagikan atau menyebarluaskan kajian yang Anda buat, cukup tekan tombol di pojok kanan atas layar saat Anda membaca informasi kajian dan pilih ke aplikasi mana kajian Anda akan dibagikan.



- f. Cara Mengubah atau Memperbarui Informasi Kajian
 - a) Di layar utama, pilih tab "Kajian" dan pilih kajian mana yang ingin Anda ubah.
 - b) Tekan tombol 🔪 di atas layar.
 - c) Silahkan ubah data informasi kajian tersebut. Tekan tombol ✓ di pojok kanan atas layar apabila sudah selesai mengubah informasi kajian.



- g. Cara Menghapus Informasi Kajian
 - a) Di layar utama, pilih tab "Kajian" dan pilih kajian mana yang ingin Anda hapus.
 - b) Tekan tombol adi atas layar dan tekan tombol "YA" untuk menghapus kajian.



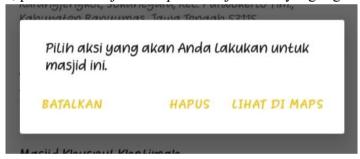
- c) Kajian berhasil dihapus. Untuk memperbarui daftar kajian, tarik daftar kajian dari atas ke bawah layar sampai muncul animasi indikator *loading*.
- h. Cara Menambah Masjid atau Lokasi Untuk Dikelola Dalam Kajian
 - a) Di layar utama, pilih tab "Masjid" dan tekan tombol "Tambah Masjid".



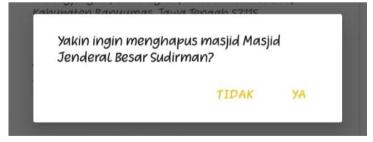
b) Silahkan pilih masjid mana yang ingin Anda kelola. Masjid yang ada pada daftar ini hanya masjid yang sudah didaftarkan di server Kajian.ID. Untuk mendaftarkan lokasi baru, ikuti instruksi yang terdapat pada layar.



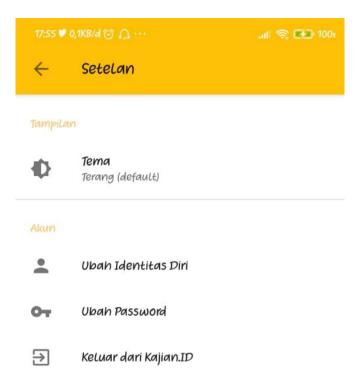
- i. Cara Menghapus Masjid Yang Dikelola
 - a) Di layar utama, pilih tab "Masjid" dan pilih masjid mana yang ingin Anda hapus.



b) Pilih "Hapus" dan tekan "YA" untuk menghapus.



- c) Masjid telah dihapus. Perlu diingat, kajian yang pernah diadakan dan disimpan di masjid ini juga ikut terhapus. Namun, masjid tersebut tetap ada dalam server Kajian.ID.
- j. Cara Mengubah Tema
 - Catatan: untuk versi Android 9 "Pie" ke atas, fitur ini secara otomatis akan mengikuti konfigurasi sistem apakah menggunakan tema gelap atau terang.
 - a) Di layar utama, tekan tombol tiga titik (;) di pojok kanan atas layar dan pilih "Setelan".



b) Pilih "Tema" dan pilih tema mana yang ingin Anda terapkan di aplikasi Kajian.ID Ustadz.



- k. Cara Mengubah Identitas Diri
 - a) Di layar utama, tekan tombol tiga titik (;) di pojok kanan atas layar dan pilih "Setelan".
 - b) Pilih "Ubah Identitas Diri" dan silahkan Anda ubah data diri Anda. Jika sudah, klik tombol "Ubah".
- 1. Cara Mengubah Kata Sandi (Password) Akun Kajian.ID Ustadz
 - a) Di layar utama, tekan tombol tiga titik (;) di pojok kanan atas layar dan pilih "Setelan".
 - b) Pilih "Ubah Password" dan silahkan ubah kata sandi Anda. Jika sudah, klik tombol "Ubah".



- m. Cara Mengeluarkan Akun (Logout) Dari Kajian.ID Ustadz
 - a) Di layar utama, tekan tombol tiga titik (:) di pojok kanan atas layar dan pilih "Setelan".
 - b) Pilih "Keluar dari Kajian.ID" dan tekan "YA" untuk keluar.



BAB III SOURCE CODE

A. ALAMAT REPOSITORY

- a. Alamat repository untuk source code Kajian.ID User dan Kajian.ID Ustadz ada di https://github.com/IF18A-Kajian-ID/kajianid_android.
- b. Alamat repository untuk source code Kajian.ID Server ada di https://github.com/IF18A-Kajian-ID/kajianid-webserver.

B. LINK VIDEO

https://youtu.be/cAyrHp3nZ5E

C. KAJIANJID USER

- a. Splash Screen
 - a) Layout (activity_splash.xml)

```
<?xml version="1.0" encoding="utf-8"?>
   <ImageView
       android:text="@string/versinya"
       app:layout constraintStart toStartOf="parent" />
   <TextView
```

```
android:text="@string/copyright"
android:textColor="?attr/editTextColor"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/version"
app:layout_constraintVertical_bias="0.3" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

b) Program (SplashActivity.kt)

b. Tampilan Utama

a) Layout (activity_main.xml)

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/drawer_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:openDrawer="start"
    tools:context=".activities.MainActivity">

    <include
        android:id="@+id/app_bar_main"
        layout="@layout/app_bar_main"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

    <com.google.android.material.navigation.NavigationView</pre>
```

```
android:id="@+id/nav_main"
android:layout_width="wrap_content"
android:layout_height="match_parent"
android:layout_gravity="start"
app:itemBackground="@android:color/transparent"
app:itemTextColor="?android:textColorPrimary"
app:itemIconTint="?android:textColorPrimary"
android:fitsSystemWindows="true"
app:headerLayout="@layout/nav_header_main"
app:menu="@menu/menu_main_drawer" />
</androidx.drawerlayout.widget.DrawerLayout>
```

b) Program (MainActivity.java)

```
import androidx.navigation.Navigation;
import androidx.navigation.ui.AppBarConfiguration;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.os.Handler;
import android.os.Looper;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
          public void onBackPressed() {
          protected void onCreate(Bundle savedInstanceState) {
```

```
setupActionBarWithNavController(this, navController,
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
            startActivity(i);
public boolean onCreateOptionsMenu(Menu menu) {
```

c. Menu Beranda

a) Tampilan (fragment_home.xml)

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

```
android:orientation="vertical">
    <LinearLayout
        android:orientation="vertical">
        <LinearLayout
            android:orientation="horizontal">
                android:text="@string/article"
                android:textAllCaps="false" />
```

b) Program (HomeFragment.java)

```
import android.content.Intent;
import android.os.Build;
import android.os.Build;
import android.os.Bundle;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.View;
import com.kajianid.android.activities.ArticleIslamiActivity;
import com.kajianid.android.dativities.KajianActivity;
import com.kajianid.android.databinding.FragmentHomeBinding;

public class HomeFragment extends Fragment {
    private FragmentHomeBinding binding;

    public HomeFragment() {
        // Required empty public constructor
    }

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}
```

d. Menu Artikel

- a) Tampilan
 - activity_article_islami.xml

activity_read_article.xml

```
</ScrollView>
</androidx.swiperefreshlayout.widget.SwipeRefreshLayout>
<RelativeLayout
    <ProgressBar
<RelativeLayout
    <ImageView
```

fragment_downloaded_article.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".fragment.DownloadedArticleFragment">

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rv_articles"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

app:layout_behavior="@string/appbar_scrolling_view_behavior"
        tools:listitem="@layout/list_article"/>

</RelativeLayout>
```

b) Program

- ArticleIslamiActivity.kt

```
import android.os.Bundle
import android.view.MenuItem
import android.view.View
import android.widget.SearchView
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.lifecycle.Observer
import androidx.lifecycle.ViewModelProvider
import androidx.recyclerview.widget.LinearLayoutManager
import com.kajianid.android.R
import com.kajianid.android.adapter.ListArticleAdapter
```

```
mport com.kajianid.android.viewmodels.ArticleViewModel
    override fun onOptionsItemSelected(item: MenuItem): Boolean
    override fun onCreate(savedInstanceState: Bundle?) {
ActivityArticleIslamiBinding.inflate(layoutInflater)
        setContentView(binding.root)
supportActionBar?.setTitle(resources.getString(R.string.read ar
LinearLayoutManager(this)
        articleViewModel = ViewModelProvider(this,
ViewModelProvider.NewInstanceFactory())
        })
                val deferredArticles = async(Dispatchers.IO) {
```

ArticleSQLAdapter.java

```
public class ArticleSQLAdapter extends
RecyclerView.Adapter<ArticleSQLAdapter.ArticleSQLViewHolder> {
    public ArticleSQLAdapter(Context context) {
    public ArticleSQLAdapter.ArticleSQLViewHolder
ListArticleBinding.inflate(LayoutInflater.from(parent.getContex
ArticleSQLAdapter.ArticleSQLViewHolder(binding);
    public void onBindViewHolder(@NonNull
```

```
RecyclerView.ViewHolder {
        public ArticleSQLViewHolder(@NonNull ListArticleBinding
itemView) {
            binding.TVUstadz.setText(article.getUstadzName());
ReadArticleSQLActivity.class);
artikelIntent.putExtra(ReadArticleSQLActivity.EXTRA PARCEL ARTI
```

ListSQLAdapter.java

```
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;
import com.bumptech.glide.Glide;
import com.kajianid.android.activities.ReadArticleActivity;
import com.kajianid.android.data.Article;
import com.kajianid.android.databinding.ListArticleBinding;
import java.util.ArrayList;
```

```
public class ListArticleAdapter extends
RecyclerView.Adapter<ListArticleAdapter.Myarticle> {
    ArrayList<Article> mArticle = new ArrayList<>();
    public ListArticleAdapter() {
    public void setArticle(ArravList<Article> mArticle) {
        if (mArticle != null) this.mArticle.clear();
        assert mArticle != null;
        this.mArticle.addAll(mArticle);
        notifyDataSetChanged();
    @NonNull
    @Override
    public Myarticle onCreateViewHolder(@NonNull ViewGroup parent,
int viewType) {
        ListArticleBinding binding =
ListArticleBinding.inflate(LayoutInflater.from(parent.getContext()));
        return new Myarticle(binding);
    @Override
    public void onBindViewHolder(@NonNull final Myarticle binding,
final int position) {
        binding.bind(mArticle.get(position));
    @Override
    public int getItemCount() {
        return mArticle.size();
    static class Myarticle extends RecyclerView.ViewHolder {
        private final ListArticleBinding binding;
        public Myarticle(@NonNull ListArticleBinding itemView) {
            super(itemView.getRoot());
            this.binding = itemView;
        public void bind(Article article) {
            binding.TVJudul.setText(article.getTitle());
            binding.TVRingkasan.setText(article.getContent());
            binding.TVTanggal.setText(article.getPostDate());
            binding.TVUstadz.setText(article.getUstadzName());
            if (article.getHasImg().equals("0")) {
                binding.IJudul.setVisibility(View.GONE);
                Glide.with(binding.getRoot().getContext())
                        .asBitmap()
                        .load(article.getImgUrl())
                        .into(binding.IJudul);
            binding.getRoot().setOnClickListener(view -> {
```

- DbArticleHelper.kt

```
package com.kajianid.android.databases.article
com.kajianid.android.databases.DatabaseContract.ArticleColums.C
        private lateinit var database: SQLiteDatabase
        fun getInstance(context: Context): DbArticleHelper =
    fun open(){
```

- MappingHelper.kt

```
package com.kajianid.android.databases.article
import android.database.Cursor
import com.kajianid.android.data.Article
import com.kajianid.android.databases.DatabaseContract

object MappingHelper {
    fun mapCursorToArrayList(articleCursor: Cursor?):
ArrayList<Article>{
        var articles = ArrayList<Article>()
        articleCursor?.apply {
            while (moveToNext()) {
                val id =
        getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.ID))
            val title =
        getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.ITILE))
            val post_date =
        getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.FOST_DATE))
            val content =
        getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.CONTENT))
            val has_img =
        getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.HAS_IMG))
            val ustadz_name =
        getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.HAS_IMG))
            val ustadz_name =
        getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.USTADZ_NAME))
```

```
article.id = id
    fun mapCursorToObject(articleCursor: Cursor?): Article{
        articleCursor?.apply {
           moveToFirst()
getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.
getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.
getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.
getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.
getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.
getString(getColumnIndexOrThrow(DatabaseContract.ArticleColums.
        return article
```

DatabaseContract.kt

```
package com.kajianid.android.databases
import android.provider.BaseColumns
object DatabaseContract {
    class KajianColumns : BaseColumns {
        companion object {
            const val TABLE_NAME_KAJIAN = "kajian"
            val ID = "id"
            val KAJIAN_TITLE = "kajian_title"
            val USTADZ_NAME = "ustadz_name"
            val MOSQUE_NAME = "mosque_name"
```

```
val ADDRESS = "address"
val PLACE = "place"
val YOUTUBE_LINK = "youtube_link"
val DESCRIPTION = "description"
val IMG_RESOURCE = "img_resource"
val DATE_ANNOUNCE = "date_announce"
val DATE_DUE = "date_due"

}
}

class ArticleColums : BaseColumns{
   companion object {
      const val TABLE_NAME_ARTICLES = "articles"
      val ID = "id"
      val TITLE = "title"
      val POST_DATE = "post_data"
      val CONTENT = "content"
      val HAS_IMG = "has_img"
      val USTADZ_NAME = "ustadz_name"
      val IMGURL = "img_url"
   }
}
```

DatabaseHelper.kt

- ReadArticleActivity.kt

```
import android.content.ContentValues
import androidx.appcompat.app.AppCompatActivity
import android.view.Menu
import android.view.Menu
import android.view.MenuItem
import android.widget.Toast
import androidx.appcompat.app.AlertDialog
import androidx.ifecycle.ViewModelProvider
import androidx.lifecycle.ViewModelProvider
import com.bumptech.glide.Glide
import com.kajianid.android.databases.DatabaseContract
import com.kajianid.android.databases.article.DbArticleHelper
import com.kajianid.android.R
import com.kajianid.android.R
import com.kajianid.android.R
import com.kajianid.android.R
import com.kajianid.android.databases.article
import
com.kajianid.android.databinding.ActivityReadArticleBinding
import com.kajianid.android.viewmodels.ReadArticleBinding
import kotlinx.coroutines.Dispatchers
import kotlinx.coroutines.Dispatchers
import kotlinx.coroutines.async
import kotlinx.coroutines.launch
import java.util.*
```

```
orivate lateinit var readArticleViewModel :
ReadArticleViewModel
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
supportActionBar?.setTitle(resources.getString(R.string.read ar
ViewModelProvider.NewInstanceFactory())
resources.getString(R.string.server) +
Objects.requireNonNull(it["extension"]).toString()
binding.ContentReadArticle.imgArticle.visibility = View.GONE
                binding.ContentReadArticle.tvPostDate.text =
```

```
it["post date"].toString()
it["content"].toString()
resources.getString(R.string.server) +
        })
            val deferredArticle = async(Dispatchers.IO) {
                MappingHelper.mapCursorToArrayList(cursor)
            val isDownload = deferredArticle.await()
binding.fabDownload.setImageResource(R.drawable.ic baseline ass
ignment returned 24)
binding.fabDownload.setImageResource(R.drawable.ic baseline ass
            if (downloaded) {
```

```
alert.setTitle(resources.getString(R.string.sure))
alert.setMessage(resources.getString(R.string.remove article co
nfirm))
alert.setPositiveButton(resources.getString(R.string.yes)) { ,
binding.fabDownload.setImageResource(R.drawable.ic baseline ass
alert.setNegativeButton(resources.getString(R.string.no)) { ,
                values.put(DatabaseContract.ArticleColums.ID,
article.postDate)
values.put(DatabaseContract.ArticleColums.CONTENT,
article.content)
article.hasImg)
values.put(DatabaseContract.ArticleColums.USTADZ NAME,
article.ustadzName)
values.put(DatabaseContract.ArticleColums.IMGURL,
article.imgUrl)
                dbArticleHelper.insert(values)
binding.fabDownload.setImageResource(R.drawable.ic baseline ass
```

```
content = it["content"].toString()
binding.ContentReadArticle.tvArticleTitle.text =
it["title"].toString()
.load(resources.getString(R.string.server) +
.into(binding.ContentReadArticle.imgArticle)
binding.ContentReadArticle.imgArticle.visibility = View.GONE
${resources.getString(R.string.likes)}"
                    binding.ContentReadArticle.tvPostDate.text
= it["post date"].toString()
binding.ContentReadArticle.tvPostContent.text =
it["content"].toString()
    override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    override fun onOptionsItemSelected(item: MenuItem): Boolean
            android.R.id.home -> super.onBackPressed()
                val mimeType = "text/plain"
```

```
setText("""

*${binding.ContentReadArticle.tvArticleTitle.text}*
    ${binding.ContentReadArticle.tvNamaUstad.text} pada
${binding.ContentReadArticle.tvPostDate.text}_

${binding.ContentReadArticle.tvPostContent.text}

Informasi ini disebarkan melalui aplikasi
${getString(R.string.app_name)}.
    """.trimIndent())
    startChooser()
    }
    }
    return super.onOptionsItemSelected(item)
}
```

- ReadArticleSQLActivity.kt

```
package com.kajianid.android.activities
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
mport androidx.appcompat.app.AlertDialog
import androidx.core.app.ShareCompat
   private lateinit var dbArticleHelper: DbArticleHelper
   private lateinit var article: Article
```

```
override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
ActivityReadArticleBinding.inflate(layoutInflater)
        id = bundle?.get(EXTRA ARTICLE ID).toString()
supportActionBar?.setTitle(resources.getString(R.string.read ar
ViewModelProvider.NewInstanceFactory())
                content = it["content"].toString()
= it["title"].toString()
                if (it["hasImg"] == true) {
resources.getString(R.string.server) +
Objects.requireNonNull(it["extension"]).toString()
binding.ContentReadArticle.imgArticle.visibility = View.GONE
                val likes = it["like"].toString() + "
${resources.getString(R.string.likes)}"
it["post date"].toString()
it["content"].toString()
it["ustadz name"].toString()
                article = Article()
```

```
article.id = it["id"].toString()
                article.title = it["title"].toString()
                article.content = it["content"].toString()
                article.postDate= it["post date"].toString()
it["ustadz name"].toString()
                article.hasImg = it["hasImg"].toString()
            val isDownload = deferredArticle.await()
alert.setTitle(resources.getString(R.string.sure))
alert.setMessage(resources.getString(R.string.remove article co
dihapus!", Toast. LENGTH LONG) .show()
```

```
alert.setNegativeButton(resources.getString(R.string.no)) {
values.put(DatabaseContract.ArticleColums.TITLE, article.title)
values.put(DatabaseContract.ArticleColums.POST DATE,
values.put(DatabaseContract.ArticleColums.CONTENT,
                val deferredArticles = async(Dispatchers.IO) {
readArticleViewModel.setArticle(applicationContext, it) }
                    title = it["title"].toString()
                    content = it["content"].toString()
it["title"].toString()
.load(resources.getString(R.string.server) +
```

```
.into(binding.ContentReadArticle.imgArticle)
binding.ContentReadArticle.imgArticle.visibility = View.GONE
                    val likes = it["like"].toString() + "
${resources.getString(R.string.likes)}"
it["content"].toString()
    override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    override fun onOptionsItemSelected(item: MenuItem): Boolean
                val mimeType = "text/plain"
                    setType(mimeType)
{getString(R.string.app name)}.
                    startChooser()
```

```
return super.onOptionsItemSelected(item)
}
```

- DownloadedArticleFragment.kt

```
import android.view.LayoutInflater
import androidx.fragment.app.Fragment
import com.kajianid.android.adapter.ArticleSQLAdapter
    private lateinit var articleSQLAdapter: ArticleSQLAdapter private lateinit var dbArticleHelper: DbArticleHelper private lateinit var binding:
FragmentDownloadedArticleBinding
    override fun onCreate(savedInstanceState: Bundle?) {
         articleSQLAdapter = ArticleSQLAdapter(context)
LinearLayoutManager(context)
         binding.rvArticles.setHasFixedSize(true) // ukuran tidak
DbArticleHelper.getInstance(requireContext().applicationContext
```

e. Menu Kajian

- a) Tampilan
 - activity_kajian.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
tools:context=".activities.KajianActivity">
<com.google.android.material.appbar.AppBarLayout
android:id="@+id/appBar"
android:layout_width="match_parent"
android:layout_height="wrap_content">
<androidx.appcompat.widget.Toolbar
android:id="@+id/toolbar"
android:layout_width="match_parent"
android:layout_height="?attr/actionBarSize" />
</com.google.android.material.appbar.AppBarLayout>

<android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_beight="wrap_content"
android:layout_beight="wrap_content"
android:layout_sibility="visible"/>

<androidx.swiperefreshlayout.widget.SwipeRefreshLayout
android:layout_width="match_parent"
android:layout_beight="match_parent"
android:layout_beight="match_pare
```

- activity_show_kajian.xml

```
<?xml version="1.0" encoding="utf-8"?>
xmlns:android="http://schemas.android.com/apk/res/android"
    <androidx.swiperefreshlayout.widget.SwipeRefreshLayout</pre>
        <ScrollView
        </ScrollView>
    </androidx.swiperefreshlayout.widget.SwipeRefreshLayout>
    <RelativeLayout
        android:layout centerInParent="true"
```

```
<ProgressBar
</RelativeLayout>
<RelativeLavout
    <TextView
        android:text="@string/example error message"
        android:textAlignment="center" />
</RelativeLayout>
```

- fragment_saved_kajian.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    tools:context=".fragment.SavedKajianFragment">

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rv_kajian"
        android:layout_width="match_parent"
        android:layout_height="match_parent"

app:layout_behavior="@string/appbar_scrolling_view_behavior"
        tools:listitem="@layout/list_kajian" />

</RelativeLayout>
```

b) Program

- KajianActivity.java

```
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.MenuItem
import android.view.View
import android.widget.SearchView
import android.widget.Toast
import androidx.lifecycle.Observer
import androidx.lifecycle.ViewModelProvider
import androidx.lifecycle.viewModelProvider
import androidx.recyclerview.widget.LinearLayoutManager
import com.kajianid.android.R
import com.kajianid.android.databinding.ActivityKajianBinding
import com.kajianid.android.viewmodels.KajianViewModel
import kotlinx.coroutines.Dispatchers
import kotlinx.coroutines.GlobalScope
import kotlinx.coroutines.async
import kotlinx.coroutines.launch
import org.json.JSONObject

class KajianActivity : AppCompatActivity() {
   var id = ""
        private lateinit var kajianViewModel: KajianViewModel
        private var listKajianAdapter: ListKajianAdapter =
ListKajianAdapter(this)
        private var searchView: SearchView? = null
        private lateinit var binding: ActivityKajianBinding
```

```
override fun onOptionsItemSelected(item: MenuItem): Boolean
            super.onBackPressed()
    override fun onCreate(savedInstanceState: Bundle?) {
        setSupportActionBar(binding.toolbar)
supportActionBar?.setTitle(resources.getString(R.string.show ka
LinearLayoutManager(this)
ViewModelProvider.NewInstanceFactory())
                    listKajianAdapter.notifyDataSetChanged()
```

- KajianSQLAdapter.java

```
package com.kajianid.android.adapter;
import android.content.Intent;
```

```
oublic class KajianSQLAdapter extends
RecyclerView.Adapter<KajianSQLAdapter.KajianSQLViewHolder> {
    public KajianSQLAdapter() {
    public KajianSQLViewHolder onCreateViewHolder(@NonNull
    public void onBindViewHolder(@NonNull
KajianSQLAdapter.KajianSQLViewHolder holder, int position) {
    public int getItemCount() {
    public class KajianSQLViewHolder extends
RecyclerView.ViewHolder {
        public KajianSQLViewHolder(ListKajianBinding itemView)
binding.TextViewUstadz.setText(kajian.getUstadzName());
```

- ListKajianAdapter.java

```
package com.kajianid.android.adapter;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;
import com.bumptech.glide.Glide;
import com.kajianid.android.activities.ShowKajianActivity;
import com.kajianid.android.data.Kajian;
import com.kajianid.android.databinding.ListKajianBinding;
import java.util.ArrayList;
import java.util.Objects;

public class ListKajianAdapter extends
RecyclerView.Adapter<ListKajianAdapter.MyHolder>{
    public ListKajianAdapter(Context context) {
        this.context = context;
    }
    ArrayList<Kajian> mKajian = new ArrayList<>();
    private Context context;

    public void setKajian(ArrayList<Kajian> mKajian) {
        if (mKajian != null) this.mKajian.clear();
        assert mKajian.addAll(mKajian);
        notifyDataSetChanged();
    }

    @NonNull
```

```
parent, int viewType) {
ListKajianBinding.inflate(LayoutInflater.from(parent.getContext
public void onBindViewHolder(@NonNull final MyHolder
holder, final int position) {
    static class MyHolder extends RecyclerView.ViewHolder{
s(), "null")) ? kajian.getMosque() : kajian.getAddress());
binding.TextViewKeterangan.setText(kajian.getPlace());
View.OnClickListener() {
                 public void onClick(View view) {
ShowKajianActivity.class);
KajianIntent.putExtra(ShowKajianActivity. EXTRA KAJIAN ID,
binding.getRoot().getContext().startActivity(KajianIntent);
```

```
}
}
```

- DbKajianHelper.kt

```
package com.kajianid.android.databases.kajian
ompanion. TABLE NAME KAJIAN
        private var INSTANCE: DbKajianHelper? = null
        fun getInstance(context: Context): DbKajianHelper =
    @Throws(SQLiteException::class)
    fun open() {
```

```
null,
    "$ID = ?",
    arrayOf(id),
    null,
    null,
    null,
    null,
    null,
    null)
}

fun insert(values: ContentValues?): Long {
    return database.insert(DATABASE_TABLE, null, values)
}

fun update(id: String, values: ContentValues?): Int {
    return database.update(DATABASE_TABLE, values, "$ID =
?", arrayOf(id))
}

fun deleteById(id: String): Int {
    return database.delete(DATABASE_TABLE, "$ID = '$id'",
null)
}
```

- MappingHelper.kt

```
qetString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
                kajian.mosque = mosque_name
kajian.address = address
    fun mapCursorToObject(kajianCursor: Cursor?): Kajian {
        kajianCursor?.apply {
            moveToFirst()
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
qetString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
getString(getColumnIndexOrThrow(DatabaseContract.KajianColumns.
```

DatabaseContract.kt

```
package com.kajianid.android.databases
import android.provider.BaseColumns

object DatabaseContract {
    class KajianColumns : BaseColumns {
        companion object {
            const val TABLE_NAME_KAJIAN = "kajian"
            val ID = "id"
            val KAJIAN_TITLE = "kajian_title"
            val WSTADZ_NAME = "ustadz_name"
            val MOSQUE_NAME = "mosque_name"
            val ADDRESS = "address"
            val PLACE = "place"
            val PLACE = "place"
            val PLACE = "place"
            val IMG_RESOURCE = "img_resource"
            val IMG_RESOURCE = "img_resource"
            val DATE_ANNOUNCE = "date_announce"
            val DATE_DUE = "date_due"

            }
    }
}

class ArticleColums : BaseColumns{
        companion object {
            const val TABLE_NAME_ARTICLES = "articles"
            val ID = "id"
            val TITLE = "title"
            val POST_DATE = "post_data"
            val CONTENT = "content"
            val HAS_IMG = "has_img"
            val USTADZ_NAME = "ustadz_name"
            val IMGURL = "img_url"
        }
}
```

- DatabaseHelper.kt

```
package com.kajianid.android.databases
import android.content.Context
```

```
${DatabaseContract.KajianColumns.KAJIAN TITLE}
        ${DatabaseContract.KajianColumns.USTADZ NAME}
        ${DatabaseContract.KajianColumns.MOSQUE NAME}
override fun onCreate(db: SQLiteDatabase?) {
    db?.execSQL(SQL CREATE NAME KAJIAN)
    db?.execSQL(SQL CREATE TABLE ARTIKEL)
override fun onUpgrade(db: SQLiteDatabase?, oldVersion:
```

}

- ShowKajianActivity.kt

```
package com.kajianid.android.activities
import com.kajianid.android.databases.kajian.DbKajianHelper
import com.kajianid.android.databases.kajian.MappingHelper
       super.onCreate(savedInstanceState)
```

```
id = bundle?.get(EXTRA KAJIAN ID).toString()
            if (it["status"] == true) {
it["date announce"].toString()
resources.getString(R.string.timestamp due) + " " +
it["date due"]
binding.contentShowKajian.tvTimestampAnnounce.text =
dateAnnounce
                binding.contentShowKajian.tvTimestampDue.text =
binding.contentShowKajian.btnPlay.visibility = View.GONE
it["category"].toString()
binding.contentShowKajian.tvMosqueAddress.text = address
binding.contentShowKajian.btnPlay.visibility = View.VISIBLE
```

```
binding.contentShowKajian.tvMosqueAddress.text = mosqueName
                    val uri = it["youtube link"].toString()
binding.contentShowKajian.btnPlay.setOnClickListener {
Uri.parse(uri))
.into(binding.contentShowKajian.imgThumbnail)
binding.contentShowKajian.imgThumbnail.visibility = View.GONE
binding.contentShowKajian.btnPlay.visibility = View.GONE
                kajian.date = it["date due"].toString()
                MappingHelper.mapCursorToArrayList(cursor)
```

```
binding.fabreminder.setImageResource(R.drawable.ic baseline not
binding.fabreminder.setImageResource(R.drawable.ic baseline not
       binding.fabreminder.setOnClickListener{
           if (remindered) {
alert.setTitle(resources.getString(R.string.sure))
alert.setMessage(resources.getString(R.string.remove reminder c
onfirm))
binding.fabreminder.setImageResource(R.drawable.ic baseline not
kajian.id.toInt())
kajian.id)
kajian.title)
values.put(DatabaseContract.KajianColumns.USTADZ NAME,
kajian.ustadzName)
values.put(DatabaseContract.KajianColumns.MOSQUE NAME,
kajian.mosque)
kajian.address)
values.put(DatabaseContract.KajianColumns.PLACE, kajian.place)
kajian.youtubelink)
values.put(DatabaseContract.KajianColumns.DESCRIPTION,
kajian.description)
```

```
kajian.dateAnnounce)
kajian.date)
binding.fabreminder.setImageResource(R.drawable.ic baseline not
        binding.pullToRefresh.setOnRefreshListener {
resources.getString(R.string.by) + " " +
it["ustadz name"].toString()
it["mosque name"].toString()
                    val description =
it["description"].toString()
resources.getString(R.string.timestamp announce) + " " +
it["date announce"].toString()
resources.getString(R.string.timestamp due) + " " +
it["date due unformatted"].toString()
it["mosque name"].toString()
it["youtube link"].toString()
                    kajian.address = it["address"].toString()
```

```
it["date due unformatted"].toString()
binding.contentShowKajian.tvKajianTitle.text = title
binding.contentShowKajian.tvDescription.text = description
binding.contentShowKajian.tvTimestampAnnounce.text =
binding.contentShowKajian.tvTimestampDue.text = dateDue
binding.contentShowKajian.btnPlay.visibility = View.GONE
binding.contentShowKajian.tvCategory.text =
it["category"].toString()
binding.contentShowKajian.tvMosqueAddress.text = address
binding.contentShowKajian.btnPlay.visibility = View.VISIBLE
binding.contentShowKajian.tvCategory.text = category
binding.contentShowKajian.tvMosqueAddress.text = mosqueName
binding.contentShowKajian.btnPlay.setOnClickListener {
Uri.parse(uri))
binding.contentShowKajian.imgThumbnail.visibility = View.GONE
binding.contentShowKajian.btnPlay.visibility = View.GONE
                    binding.errorMessage.visibility =
```

```
View.VISIBLE
   override fun onCreateOptionsMenu(menu: Menu?): Boolean {
   override fun onOptionsItemSelected(item: MenuItem): Boolean
${getString(R.string.app name)}.
                   startChooser()
```

- ShowKajianSQLActivity.kt

```
import android.content.ContentValues
import android.content.Intent
import android.net.Uri
import android.os.Bundle
import android.view.Menu
import android.view.Menu
import android.view.View
import android.view.View
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
```

```
class ShowKajianSQLActivity:AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        setSupportActionBar(toolbar)
        kajian = bundle.getParcelable(EXTRA PARCEL KAJIAN)!!
kajian.title
kajian.mosque
kajian.ustadzName
resources.getString(R.string.timestamp announce) + " " +
resources.getString(R.string.timestamp due) + " " + kajian.date
kajian.description
```

```
kajian.place.toString()
kajian.address
kajian.place.toString().toUpperCase(Locale.ROOT) + " - Courtesy
            binding.contentShowKajian.tvCategorv.text =
category
            binding.contentShowKajian.tvMosqueAddress.text =
kajian.mosque
binding.contentShowKajian.btnPlay.setOnClickListener {
Uri.parse(uri))
            val deferredKajian = async(Dispatchers.IO) {
binding.fabreminder.setImageResource(R.drawable.ic baseline not
ifications none 24)
binding.fabreminder.setImageResource(R.drawable.ic baseline not
ifications active 24)
        binding.fabreminder.setOnClickListener{
alert.setTitle(resources.getString(R.string.sure))
```

```
alert.setMessage(resources.getString(R.string.remove reminder of
onfirm))
alert.setPositiveButton(resources.getString(R.string.yes)) {    ,
binding.fabreminder.setImageResource(R.drawable.ic baseline not
kajian.id.toInt())
alert.setNegativeButton(resources.getString(R.string.no)) { ,
                alert.create().show()
kajian.id)
kajian.title)
values.put(DatabaseContract.KajianColumns.USTADZ NAME,
kajian.ustadzName)
values.put(DatabaseContract.KajianColumns.MOSQUE NAME,
kajian.mosque)
values.put(DatabaseContract.KajianColumns.ADDRESS,
kajian.address)
values.put(DatabaseContract.KajianColumns.YOUTUBE LINK,
kajian.youtubelink)
values.put(DatabaseContract.KajianColumns.DESCRIPTION,
kajian.description)
values.put(DatabaseContract.KajianColumns.IMG RESOURCE,
kajian.imgResource)
values.put(DatabaseContract.KajianColumns.DATE ANNOUNCE,
kajian.dateAnnounce)
kajian.date)
binding.fabreminder.setImageResource(R.drawable.ic baseline not
Toast.LENGTH LONG).show()
```

```
binding.pullToRefresh.setOnRefreshListener {
   override fun onCreateOptionsMenu(menu: Menu?): Boolean {
   override fun onOptionsItemSelected(item: MenuItem): Boolean
           android.R.id.home -> super.onBackPressed()
${getString(R.string.app name)}.
               }
```

SavedKajianFragment.kt

```
import android.os.Bundle
import androidx.fragment.app.Fragment
import androidx.fragment.app.Fragment
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.recyclerview.widget.LinearLayoutManager
import com.kajianid.android.adapter.KajianSQLAdapter
import com.kajianid.android.databases.kajian.DbKajianHelper
import com.kajianid.android.databases.kajian.MappingHelper
import
com.kajianid.android.databinding.FragmentSavedKajianBinding
import kotlinx.coroutines.Dispatchers
import kotlinx.coroutines.GlobalScope
```

```
private lateinit var kajianSQLAdapter: KajianSQLAdapter private lateinit var dbKajianHelper: DbKajianHelper private lateinit var binding: FragmentSavedKajianBinding
     override fun onViewCreated(view: View, savedInstanceState:
Bundle?) {
LinearLayoutManager(context)
          binding.rvKajian.setHasFixedSize(true) //tidak efek
     private fun loadKajian() {
     override fun onCreate(savedInstanceState: Bundle?) {
          super.onCreate(savedInstanceState)
          kajianSQLAdapter = KajianSQLAdapter()
     override fun onCreateView(inflater: LayoutInflater,
                                     savedInstanceState: Bundle?):
         binding = FragmentSavedKajianBinding.inflate(inflater,
```

KajianAlarmReceiver.kt

```
package com.kajianid.android.receiver
import android.app.NotificationChannel
import android.content.BroadcastReceiver
intent.getStringExtra(EXTRA KAJIAN TITLE).toString()
intent.getStringExtra(EXTRA USTADZ NAME).toString()
        val dateCheck = SimpleDateFormat(DATE FORMAT,
Locale.getDefault()).parse(dateUnformatted)!!
```

```
KajianAlarmReceiver::class.java)
").toTypedArray()
").toTypedArray()
Integer.parseInt(dateArray[0]))
    fun cancelReminder(context: Context, id: Int) {
KajianAlarmReceiver::class.java)
        alarmManager.cancel(pendingIntent)
```

```
private fun showReminderNotification(context: Context,
context.getString(R.string.notification half title, title)
context.getString(R.string.notification half message, title,
NotificationManager
        val builder = NotificationCompat.Builder(context,
                .setSmallIcon(R.drawable.icon)
                .setSound(alarmSound)
            channel.vibrationPattern = longArrayOf(1000, 1000,
            builder.setChannelId(CHANNEL ID)
notificationManagerCompat.createNotificationChannel(channel)
notification)
```

}

f. Menu Tentang

- a) Tampilan
 - activity about.xml

```
<LinearLayout
     <com.google.android.material.appbar.AppBarLayout</pre>
     </com.google.android.material.appbar.AppBarLayout>
     <RelativeLayout
           <TextView
                android:layout_toEndOf="@+id/appIcon"
android:text="@string/app_name"
android:textColor="?android:textColorPrimary"
```

```
<TextView
    </RelativeLayout>
    <com.google.android.material.tabs.TabLayout</pre>
    <androidx.viewpager.widget.ViewPager</pre>
</LinearLayout>
```

- fragment_developers.xml

```
<TableLayout
        <TextView
        <TextView
            android:text="@string/example about grade"
            android:layout height="wrap content"
```

```
<TextView
</TableRow>
    <TextView
</TableRow>
    <TextView
    <TextView
```

```
</TableRow>
            <TextView
        </TableRow>
</LinearLayout>
```

b) Program

- AboutActivity.java

```
import android.annotation.SuppressLint;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.Menu;
import android.view.Menu;
import android.view.MenuItem;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import com.kajianid.android.R;
import com.kajianid.android.databinding.ActivityAboutBinding;
import com.kajianid.android.pageradapter.AboutPagerAdapter;
import java.util.Objects;

public class AboutActivity extends AppCompatActivity {
    private ActivityAboutBinding binding;
```

```
protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
ActivityAboutBinding.inflate(getLayoutInflater());
getSupportFragmentManager());
Objects.requireNonNull(getSupportActionBar()).setTitle(getStrin
q(R.string.about));
    public boolean onCreateOptionsMenu(Menu menu) {
    public boolean onOptionsItemSelected(@NonNull MenuItem
    protected void onDestroy() {
```

- DevelopersFragment.java

```
package com.kajianid.android.fragment;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
```

```
private static final String ARG_DEVELOPER_POSITION =
"arg_developer_position";
    public DevelopersFragment() {
    public static DevelopersFragment newInstance(int position)
    public void onCreate(Bundle savedInstanceState) {
Bundle savedInstanceState) {
```

```
binding.tvYearRegistered.setText(DeveloperData.yearRegister[position]);
binding.tvGitHub.setText(DeveloperData.githubUsername[position]);
    binding.tvEmail.setText(DeveloperData.email[position]);
binding.tvAddress.setText(DeveloperData.address[position]);

    String githubUrl = "https://github.com/" +
DeveloperData.githubUsername[position];
    binding.btnVisit.setOnClickListener(itView -> {
        Intent i = new Intent(Intent.ACTION_VIEW);
        i.setData(Uri.parse(githubUrl));
        startActivity(i);
    });
}
```

- AboutPagerAdapter.java

```
package com.kajianid.android.pageradapter;
   public AboutPagerAdapter(Context context, FragmentManager
   public Fragment getItem(int position) {
       return DevelopersFragment.newInstance(position);
```

```
@Override
public int getCount() {
    return tabTitles.length;
}
```

- DeveloperData.java

```
"rizkybayu1411",
};

public static final String[] email = {
    "dwichan@outlook.com",
    "marhatunsolehal7@gmail.com",
    "fendiriawan0102@gmail.com",
    "diyahprimasari24@gmail.com",
    "rizkybayu1411@gmail.com",
};

public static final String[] address = {
    "Jalan Mandor Martinem Roy 1 Nomor 99 RT 005 RW 006
Desa Rejasari Kecamatan Langensari Kota Banjar",
    "Desa losari RT 04/RW 04 Kecamatan Rawalo Kabupaten
Banyumas",
    "Kemutug Lor RT 04 rw 03 Kecamatan Baturraden",
    "Kasih, RT 004 RW 003, Kecamatan Kertanegara,
Kabupaten Purbalingga",
    "Desa Papringan Kec. Banyumas, Kabupaten Banyumas,
Jawa Tengah",
    };
}
```

g. arrays.xml

```
</ri></resources>
```

h. colors.xml

i. dimens.xml

i. drawables.xml

k. strings.xml

```
(menit) </string>
sahur</string>
"</string>
     <string name="example_keterangan">LIVE</string>
<string name="example tanggal">1/02/2020 18.00</string>
```

```
<string name="likes">suka</string>
<string name="example_likes">1200 suka</string>
MA.</string>
     <string
     <string name="label about grade">Kelas</string>
     <string name="example about grade">AB 1234 C</string>
     <string name="label about github">GitHub Username</string>
     <string name="label about email">Email</string>
United States 12204</string>
     <string name="mosque_location">Lokasi Masjid</string>
<string name="mosque_list">Daftar Masjid</string>
<string name="nama_ustadz">ustadz abdul somad</string>
```

1. Tema

- themes.xml

- themes.xml (night)

m. AndroidManifest.xml

n. build.gradle (Module)

```
plugins {
    id 'com.android.application'
    id 'kotlin-android'
}

android {
    compileSdkVersion 30
    buildToolsVersion "30.0.2"

    defaultConfig {
        applicationId "com.kajianid.android"
        minSdkVersion 21
        targetSdkVersion 30
        versionCode 1
        versionName "1.0"

        multiDexEnabled true

        testInstrumentationRunner
"androidx.test.runner.AndroidJUnitRunner"
    }

    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
        }
    }
    compileOptions {
        sourceCompatibility JavaVersion.VERSION_1_8
        targetCompatibility JavaVersion.VERSION_1_8
}
```

```
buildFeatures {
'androidx.swiperefreshlayout:swiperefreshlayout:1.1.0'
implementation 'androidx.legacy:legacy-support-v4:1.0.0'
implementation 'androidx.navigation:navigation-fragment-
       testImplementation 'junit:junit:4.13.1' implementation 'com.loopj.android:android-async-http:1.4.11'
```

D. KAJIANJD USTADZ

- a. Splash Screen
 - a) Tampilan (activity splash.xml)

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="ui.intro.SplashActivity">

    <ImageView
        android:layout_width="200dp"
        android:layout_width="200dp"
        android:layout_height="200dp"
        android:contentDescription="@string/logo"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

b) Program

- SplashActivity.java

```
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.view.View;
import android.xappcompat.app.AppCompatActivity;
import androidx.appcompat.app.AppCompatDelegate;
import com.bumptech.glide.Glide;
import com.kajianid.ustadz.R;
import com.kajianid.ustadz.databinding.ActivitySplashBinding;
import com.kajianid.ustadz.prefs.CredentialPreference;
import com.kajianid.ustadz.ui.login.LoginActivity;
import com.kajianid.ustadz.ui.main.MainActivity;
import com.kajianid.ustadz.utils.StringHelper;
import com.loopj.android.http.AsyncHttpResponseHandler;
import com.loopj.android.http.RequestParams;
import org.json.JSONOException;
import cz.msebera.android.httpclient.Header;
```

```
public class SplashActivity extends AppCompatActivity {
                .load(R.drawable.icon)
        SharedPreferences sharedPreferences =
AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE NI
AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE NI
getString(R.string.app version);
        new Handler(getMainLooper()).postDelayed(() -> {
            if (sharedPreferences.getBoolean("first", false)) {
```

```
!StringHelper.isNullOrEmpty(password)) {
String api = getString(R.string.server) + "api/ustadz/credential";
AsyncHttpResponseHandler() {
headers, byte[] responseBody) {
String(responseBody);
                         JSONObject responseObject = new
JSONObject (response);
responseObject.getString("username");
                                 getString(R.string.welcome) +
getUsername,
                public void onFailure(int statusCode, Header[]
headers, byte[] responseBody, Throwable error) {
getString(R.string.wrong username password),
getString(R.string.empty username password),
```

IntroActivity.kt

```
getColor(R.color.abuabu)
   override fun onDonePressed(currentFragment: Fragment?) {
```

b. Login

a) Tampilan (activity_login.xml)

```
<?xml version="1.0" encoding="utf-8"?>
   <ScrollView
   </ScrollView>
   <ProgressBar
   <LinearLayout
       app:layout constraintStart toStartOf="parent">
```

```
android:layout height="wrap content
            android:backgroundTint="@color/abuabu"
   </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

b) Program (LoginActivity.java)

```
oackage com.kajianid.ustadz.ui.login;
import com.loopj.android.http.RequestParams;
   protected void onCreate(Bundle savedInstanceState) {
                .load(R.drawable.icon)
```

```
String text = "Permisi, saya ingin mengajukan diri
mendaftar sebagai Ustadz di aplikasi Kajian.ID.\n" +
CredentialPreference(this);
String(responseBody);
```

```
JSONObject responseObject = new
                                getString(R.string.welcome) +
getString(R.string.wrong username password),
```

```
@Override
  protected void onDestroy() {
      super.onDestroy();
      binding = null;
  }
}
```

c. Menu Beranda

a) Tampilan (activity_main.xml)

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
    <com.google.android.material.appbar.AppBarLayout</pre>
        <androidx.appcompat.widget.Toolbar</pre>
        <com.google.android.material.tabs.TabLayout</pre>
             app:tabSelectedTextColor="#E91E63" />
    <androidx.viewpager.widget.ViewPager</pre>
```

b) Program (MainActivity.java)

```
import android.view.Menu;
import android.view.MenuItem;
import androidx.annotation.NonNull;
    protected void onCreate(Bundle savedInstanceState) {
Objects.requireNonNull(getSupportActionBar()).setTitle(getString(R
    public boolean onCreateOptionsMenu(Menu menu) {
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    protected void onDestroy() {
```

```
}
}
```

- d. Menu Artikel
 - a) Tampilan
 - fragment_article.xml

```
<androidx.swiperefreshlayout.widget.SwipeRefreshLayout</pre>
</androidx.swiperefreshlayout.widget.SwipeRefreshLayout>
<RelativeLayout
    android:paddingRight="25dp"
        android:inputType="text"
```

```
<RelativeLavout
        <TextView
            android:textAlignment="center" />
    </RelativeLavout>
</androidx.constraintlayout.widget.ConstraintLayout>
activity_read_article.xml
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    <com.google.android.material.appbar.AppBarLayout</pre>
```

```
</com.google.android.material.appbar.AppBarLayout>
<androidx.swiperefreshlayout.widget.SwipeRefreshLayout</pre>
    <ScrollView
</androidx.swiperefreshlayout.widget.SwipeRefreshLayout>
    <ProgressBar
    <TextView
</RelativeLayout>
<RelativeLayout
    <ImageView</pre>
```

activity_add_update_article.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context="ui.article.AddUpdateArticleActivity">

<com.google.android.material.appbar.AppBarLayout
android:id="@+id/appBar"
android:layout_width="match_parent"
android:layout_height="wrap_content">

<androidx.appcompat.widget.Toolbar
android:id="@+id/toolbar"
android:layout_width="match_parent"
android:layout_height="?attr/actionBarSize" />

</com.google.android.material.textfield.TextInputLayout
android:id="@+id/tilArticleTitle"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@+id/appBar">

<EditText
android:layout_below="@+id/appBar">

<EditText
android:layout_height="wrap_content"
android:hayout_height="wrap_content"
android:hint="@string/article title"</pre>
```

```
</com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout</pre>
         android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@+id/tilArticleTitle">
         <EditText
/>
    </com.google.android.material.textfield.TextInputLayout>
    <RelativeLayout
         <ProgressBar
         <TextView
    </RelativeLayout>
    <RelativeLayout
```

```
<ImageView</pre>
/>
                android:textColor="@android:color/white" />
            <LinearLayout
                android:orientation="horizontal">
                     android:layout width="wrap content"
```

```
</RelativeLayout>
```

b) Program

- ArticleFragment.kt

```
import androidx.fragment.app.Fragment
    override fun onCreate(savedInstanceState: Bundle?) {
                              savedInstanceState: Bundle?):
    override fun onViewCreated(view: View, savedInstanceState:
LinearLayoutManager(context)
        binding.pullToRefresh.setOnRefreshListener {
            GlobalScope.launch(Dispatchers.Main) {
```

```
binding.etSearchArticle.text.toString())
parse.getString("message"), Toast.LENGTH SHORT).show()
                fetchArticles()
            if (it != null) {
                adapter.setArticles(it)
AddUpdateArticleActivity::class.java)
            startActivityForResult(i,
            val deferredStatus = async(Dispatchers.IO) {
```

```
binding.pullToRefresh.visibility = View.VISIBLE
    binding.progressMessage.visibility = View.GONE
    val parse = JSONObject(status)
    Toast.makeText(context,
parse.getString("message"), Toast.LENGTH_SHORT).show()
    } else {
        binding.pullToRefresh.visibility = View.VISIBLE
        binding.progressMessage.visibility = View.GONE
        adapter.notifyDataSetChanged()
     }
    }
}

override fun onActivityResult(requestCode: Int, resultCode:
Int, data: Intent?) {
    when (resultCode) {
        AddUpdateArticleActivity.RESULT_SAVE ->
fetchArticles()
        ReadArticleActivity.RESULT_DELETE ->
fetchArticles()
    }
    super.onActivityResult(requestCode, resultCode, data)
}
```

ArticleAdapter.java

```
package com.kajianid.ustadz.ui.main.article;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;
import com.bumptech.glide.Glide;
import com.kajianid.ustadz.data.Article;
import com.kajianid.ustadz.datainding.ItemArticlesBinding;
import com.kajianid.ustadz.ui.article.ReadArticleActivity;
import java.util.ArrayList;

public class ArticleAdapter extends
RecyclerView.Adapter<ArticleAdapter.ArticleViewHolder> {
    private final ArrayList<Article> mData = new ArrayList<>();

    public void setArticles(ArrayList<Article> articles) {
        mData.addAll(articles);
        notifyDataSetChanged();
    }

    @NonNull
    @Override
    public ArticleAdapter.ArticleViewHolder
    onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        ItemArticlesBinding binding =
        ItemArticlesBinding.inflate(LayoutInflater.from(parent.getConte xt()));
        return new ArticleViewHolder(binding);
    }

    @Override
    public void onBindViewHolder(@NonNull
```

```
RecyclerView.ViewHolder {
        public ArticleViewHolder(@NonNull ItemArticlesBinding
binding) {
Intent(binding.getRoot().getContext(),
ReadArticleActivity.class);
i.putExtra(ReadArticleActivity.EXTRA ARTICLE ID, id);
binding.getRoot().getContext().startActivity(i);
```

- ReadArticleActivity.kt

```
import android.content.Intent
import android.os.Bundle
import android.view.Menu
import android.view.Menu
import android.view.View
import android.view.View
import android.widget.Toast
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
```

```
import cz.msebera.android.httpclient.Header
import kotlinx.coroutines.Dispatchers
import kotlinx.coroutines.GlobalScope
import kotlinx.coroutines.async
class ReadArticleActivity : AppCompatActivity() {
ActivityReadArticleBinding.inflate(layoutInflater)
getString(R.string.read article)
               id = bundle.getString(EXTRA ARTICLE ID)
               readArticleViewModel = ViewModelProvider(this,
ViewModelProvider.NewInstanceFactory())
                     if (it["status"] == true) {
                          content = it["content"].toString()
it["title"].toString()
```

```
getString(R.string.server)
Objects.requireNonNull(it["extension"]).toString()
                    val likes = it["like"].toString()
it["post date"].toString()
it["content"].toString()
                     [${it["code"]}]: ${it["message"]}
            })
readArticleViewModel.setArticle(applicationContext, it) }
                    content = it["content"].toString()
it["title"].toString()
```

```
(it["hasImg"] == true)
                    val likes = it["like"].toString() + "
${resources.getString(R.string.likes)}"
it["content"].toString()
                val deferredArticles = async(Dispatchers.IO) {
                    id.let {
readArticleViewModel.setArticle(applicationContext, it) }
                val it = deferredArticles.await()
                    content = it["content"].toString()
it["title"].toString()
.load(resources.getString(R.string.server) +
```

```
val likes = it["like"].toString() + "
${resources.getString(R.string.likes)}"
it["post date"].toString()
it["content"].toString()
    override fun onOptionsItemSelected(item: MenuItem): Boolean
resources.getString(R.string.update error),
AddUpdateArticleActivity::class.java)
i.putExtra(AddUpdateArticleActivity.EXTRA ARTICLE ID, id)
i.putExtra(AddUpdateArticleActivity.EXTRA ARTICLE TITLE, title)
i.putExtra(AddUpdateArticleActivity. EXTRA ARTICLE CONTENT,
AddUpdateArticleActivity.RESULT UPDATE)
```

```
alert.setTitle(resources.getString(R.string.sure))
.setMessage(resources.getString(R.string.delete article message
${getString(R.string.app name)}.
              }
          override fun onSuccess(statusCode: Int, headers:
Array<out Header>?, responseBody: ByteArray?) {
resources.getString(R.string.delete success message),
Toast.LENGTH SHORT).show()
           override fun onFailure(statusCode: Int, headers:
{ error.message } \n$ { responseBody.toString() } ",
```

```
override fun onCreateOptionsMenu(menu: Menu?): Boolean {
if (resultCode == RESULT_OK && requestCode ==
AddUpdateArticleActivity.RESULT_UPDATE) {
readArticleViewModel.setArticle(applicationContext, it) }
                     title = it["title"].toString()
                     content = it["content"].toString()
it["title"].toString()
.load(resources.getString(R.string.server) +
                     val likes = it["like"].toString() + "
${resources.getString(R.string.likes)}"
binding?.contentReadArticle?.tvPostDate?.text =
it["post date"].toString()
binding?.contentReadArticle?.tvPostContent?.text =
it["content"].toString()
View. GONE
```

AddUpdateArticleActivity.java

```
oackage com.kajianid.ustadz.ui.article;
import android.os.Bundle,
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Toast;
import androidx.annotation.NonNull;
com.kajianid.ustadz.databinding.ActivityAddUpdateArticleBinding
     private ActivityAddUpdateArticleBinding binding;
      protected void onCreate(Bundle savedInstanceState) {
ActivityAddUpdateArticleBinding.inflate(getLayoutInflater());
```

```
bundle.getString(EXTRA ARTICLE TITLE, "");
bundle.getString(EXTRA ARTICLE CONTENT, "");
            getSupportActionBar().setTitle(titleWindow);
saveArticle());
    public boolean onCreateOptionsMenu(Menu menu) {
menu);
    public boolean onOptionsItemSelected(@NonNull MenuItem
            saveArticle();
    private void saveArticle() {
        if (StringHelper.isNullOrEmpty(id)) {
```

```
binding.edtArticleTitle.getText().toString();
                String url = getString(R.string.server) +
AsyncHttpResponseHandler() {
Header[] headers, byte[] responseBody) {
binding.errorMessage.setVisibility(View.GONE);
Toast.makeText(AddUpdateArticleActivity.this,
getString(R.string.save success), Toast.LENGTH SHORT).show();
AddUpdateArticleActivity.this.setResult(RESULT OK);
                    public void onFailure(int statusCode,
Header[] headers, byte[] responseBody, Throwable error) {
```

```
oinding.errorMessage.setVisibility(View.VISIBLE);
                                + error.getMessage();
getString(R.string.title must fill),
binding.progressMessage.setVisibility(View.GONE);
getString(R.string.content must fill),
binding.progressMessage.setVisibility(View.GONE);
                String url = getString(R.string.server) +
AsyncHttpResponseHandler() {
                    public void onSuccess(int statusCode,
Header[] headers, byte[] responseBody) {
binding.progressMessage.setVisibility(View.GONE);
binding.errorMessage.setVisibility(View.GONE);
Toast.makeText(AddUpdateArticleActivity.this,
```

```
AddUpdateArticleActivity.this.setResult(RESULT OK);
                              finish();
public void onFailure(int statusCode,
Header[] headers, byte[] responseBody, Throwable error) {
     protected void onDestroy() {
```

e. Menu Kajian

- a) Tampilan
 - fragment_kajian.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.main.kajian.KajianFragment">

    <androidx.swiperefreshlayout.widget.SwipeRefreshLayout
        android:id="@+id/pullToRefresh"
        android:layout_width="match_parent"
        android:layout_height="Odp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/relativeLayout">
```

```
<androidx.recyclerview.widget.RecyclerView
</androidx.swiperefreshlayout.widget.SwipeRefreshLayout>
   <EditText
</RelativeLayout>
<RelativeLayout
```

- activity_show_kajian.xml

```
<?xml version="1.0" encoding="utf-8"?>
xmlns:android="http://schemas.android.com/apk/res/android"
        <androidx.appcompat.widget.Toolbar</pre>
    </com.google.android.material.appbar.AppBarLayout>
    <androidx.swiperefreshlayout.widget.SwipeRefreshLayout</pre>
        <ScrollView
        </ScrollView>
    </androidx.swiperefreshlayout.widget.SwipeRefreshLayout>
```

```
<ImageView</pre>
<TextView
```

```
</RelativeLayout>
```

- activity_add_update_kajian.xml

```
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    <com.google.android.material.appbar.AppBarLayout</pre>
    </com.google.android.material.appbar.AppBarLayout>
    <ScrollView
        <LinearLayout
             <TextView
<com.google.android.material.textfield.TextInputLayout</pre>
```

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```
android:layout_marginEnd="16dp" android:layout_marginBottom="16dp" android:visibility="gone">
                   <EditText
                         android:importantForAutofill="no"
                         android:inputType="text" />
<com.google.android.material.textfield.TextInputLayout</pre>
                        android:importantForAutofill="no"
</com.google.android.material.textfield.TextInputLayout>
               <RelativeLavout
                   <ImageView
```

133

```
</RelativeLavout>
<com.google.android.material.textfield.TextInputLayout</pre>
                     android:text="@string/mosque" />
                <RelativeLayout
                     android:layout width="match parent"
                     <TextView
```

```
</RelativeLayout>
                    <EditText
                         android:importantForAutofill="no"
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</pre>
                         android:inputType="none" />
```

135

```
android:inputType="none" />
        </LinearLavout>
    </LinearLayout>
</ScrollView>
    <ProgressBar
    <TextView
</RelativeLayout>
<RelativeLayout
```

```
<RelativeLayout
/>
            <TextView
            <LinearLayout
                android:orientation="horizontal">
                    android:text="@string/cancel" />
            </LinearLayout>
```

```
</RelativeLayout>

</RelativeLayout>

</RelativeLayout>
```

b) Program

- KajianFragment.kt

```
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import androidx.lifecycle.ViewModelProvider
import androidx.recyclerview.widget.LinearLayoutManager
import com.kajianid.ustadz.databinding.FragmentKajianBinding
import com.kajianid.ustadz.ui.kajian.AddUpdateKajianActivity
import com.kajianid.ustadz.ui.kajian.ShowKajianActivity
import kotlinx.coroutines.Dispatchers
import kotlinx.coroutines.GlobalScope
import kotlinx.coroutines.async
import kotlinx.coroutines.launch
import org ison JSONObject
           override fun onCreate(savedInstanceState: Bundle?) {
 LinearLayoutManager(context)
```

```
binding.etSearchKajian.text.toString())
parse.getString("message"), Toast.LENGTH SHORT).show()
binding.etSearchKajian.text.toString())
parse.getString("message"), Toast.LENGTH SHORT).show()
ViewModelProvider.NewInstanceFactory())
                adapter.setData(it)
```

```
AddUpdateKajianActivity.RESULT SAVE)
parse.getString("message"), Toast.LENGTH SHORT).show()
```

KajianAdapter.java

```
package com.kajianid.ustadz.ui.main.kajian;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;
import com.bumptech.glide.Glide;
import com.kajianid.ustadz.R;
import com.kajianid.ustadz.data.Kajian;
import com.kajianid.ustadz.databinding.ItemKajianBinding;
import com.kajianid.ustadz.ui.kajian.ShowKajianActivity;
import com.kajianid.ustadz.utils.StringHelper;
import java.util.ArrayList;
```

```
public void setData(ArrayList<Kajian> kajian) {
        public KajianViewHolder(@NonNull ItemKajianBinding
binding) {
        public void bind(Kajian kajian) {
```

ShowKajianActivity.kt

```
package com.kajianid.ustadz.ui.kajian
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.widget.Toast
import com.loopj.android.http.AsyncHttpClient
class ShowKajianActivity : AppCompatActivity() {
     override fun onCreate(savedInstanceState: Bundle?) {
          super.onCreate(savedInstanceState)
ActivityShowKajianBinding.inflate(layoutInflater)
```

```
setSupportActionBar(binding?.toolbar)
resources.getString(R.string.view kajian)
"").toString()
            showKajianViewModel = ViewModelProvider(this,
ViewModelProvider.NewInstanceFactory())
                if (it["status"] == true) {
                    val title = it["title"].toString()
it["ustadz name"].toString()
it["mosque name"].toString()
                    val address = it["address"].toString()
it["description"].toString()
resources.getString(R.string.timestamp announce) + " " +
it["date announce"].toString()
resources.getString(R.string.timestamp due) + " " +
it["date due"]
                    kajian.id = it["id"].toString()
                    kajian.title = it["title"].toString()
it["mosque id"].toString()
it["mosque name"].toString()
                    kajian.place = it["category"].toString()
it["youtube link"].toString()
it["description"].toString()
                    kajian.address = it["address"].toString()
it["img resource"].toString()
it["date_due_unformatted"].toString()
binding?.contentShowKajian?.tvKajianTitle?.text = title
```

```
if (it["category"] == "Di Tempat") {
it["category"].toString()
it["category"].toString().toUpperCase(Locale.ROOT) + " -
binding?.contentShowKajian?.btnPlay?.setOnClickListener {
Uri.parse(uri))
                            startActivity(i)
                    if (it["img resource"] != null) {
.load(it["img resource"].toString())
binding?.contentShowKajian?.btnPlay?.visibility = View.GONE
```

```
refreshData()
                val title = it["title"].toString()
it["ustadz name"].toString()
                val mosqueName = it["mosque name"].toString()
                val address = it["address"].toString()
                val description = it["description"].toString()
resources.getString(R.string.timestamp announce) + " " +
it["date announce"].toString()
it["date due"]
                kajian.id = it["id"].toString()
                kajian.title = it["title"].toString()
                kajian.mosqueId = it["mosque id"].toString()
it["mosque name"].toString()
                kajian.place = it["category"].toString()
                kajian.ytLink = it["youtube link"].toString()
                kajian.address = it["address"].toString()
it["date due unformatted"].toString()
```

```
title
binding?.contentShowKajian?.tvTimestampDue?.text = dateDue
it["category"].toString()
binding?.contentShowKajian?.btnPlay?.visibility = View.VISIBLE
it["category"].toString().toUpperCase(Locale.ROOT) + " -
                    val uri = it["youtube link"].toString()
Uri.parse(uri))
.load(it["img resource"].toString())
binding?.contentShowKajian?.btnPlay?.visibility = View.GONE
                    """.trimIndent()
```

```
private fun deleteKajian() {
Array<out Header>?, responseBody: ByteArray?) {
resources.getString(R.string.delete kajian success message),
            override fun onFailure(statusCode: Int, headers:
    override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    override fun onOptionsItemSelected(item: MenuItem): Boolean
AddUpdateKajianActivity::class.java)
i.putExtra(AddUpdateKajianActivity.EXTRA PARCEL KAJIAN, kajian)
                startActivityForResult(i,
AddUpdateKajianActivity.RESULT UPDATE)
alert.setTitle(resources.getString(R.string.sure))
.setMessage(resources.getString(R.string.delete kajian message)
.setPositiveButton(resources.getString(R.string.yes)) { , ->
```

AddUpdateKajianActivity.kt

```
import android.Manifest
import android.app.DatePickerDialog
import android.app.DatePickerDialog.OnDateSetListener
import android.app.TimePickerDialog.OnTimeSetListener
import android.app.TimePickerDialog.OnTimeSetListener
import android.content.Intent
import android.content.pm.PackageManager
import android.os.Bundle
import android.os.Parcelable
import android.provider.MediaStore
import android.view.Menu
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.view.OnItemSelectedListener
import android.widget.*
import androidx.appcompat.app.AppCompatActivity
import androidx.core.content.ContextCompat
import com.bumptech.glide.Glide
import com.kajianid.ustadz.R
import com.kajianid.ustadz.data.Mosque
import
com.kajianid.ustadz.data.Mosque
import
com.kajianid.ustadz.databinding.ActivityAddUpdateKajianBinding
```

```
import com.kajianid.ustadz.utils.StringHelper
import com.loopj.android.http.AsyncHttpClient
import com.loopj.android.http.AsyncHttpResponseHandler
import com.loopj.android.http.RequestParams
      private val calendar = Calendar.getInstance()
private var binding: ActivityAddUpdateKajianBinding? = null
ActivityAddUpdateKajianBinding.inflate(layoutInflater)
getString(R.string.update kajian)
bundle.getParcelable<Parcelable>(EXTRA PARCEL KAJIAN) as
Kajian?
```

```
View? ->
MosqueChooserActivity::class.java)
i.putExtra(MosqueChooserActivity. EXTRA IS USTADZ ONLY, true)
            startActivityForResult(i,
MosqueChooserActivity.REQUEST MOSQUE)
View? ->
            if (ContextCompat.checkSelfPermission()
Manifest.permission.READ EXTERNAL STORAGE
MediaStore.Images.Media.EXTERNAL CONTENT URI
```

```
getString(R.string.file permission denied),
->
->
AdapterView<*>?, view: View, position: Int, id: Long) {
            override fun onNothingSelected(parent:
DatePicker?, year: Int, month: Int, dayOfMonth: Int ->
Locale.getDefault())
View? ->
```

```
dpd.setTitle(getString(R.string.choose date due))
hourOfDay
Locale.getDefault()).format(timeCalendarSet.time)
            tpd.setTitle(getString(R.string.choose time due))
    override fun onCreateOptionsMenu(menu: Menu): Boolean {
    override fun onOptionsItemSelected(item: MenuItem): Boolean
```

```
mosque.id.toString()
                 val path = selectedImage!!.path!!.substring(5)
    @Throws(FileNotFoundException::class)
getString(R.string.kajian address empty),
Toast. LENGTH SHORT) . show ()
Toast. LENGTH SHORT) . show()
                     binding!!.edtKajianAddress.requestFocus()
ing())) {
```

```
getString(R.string.kajian mosque empty),
ring())) {
            kajianTitle =
            if (selectedItem == categories[0]) kajianAddress =
            kajianDateDue =
            kajianTimeDue =
binding!!.edtKajianTimeDue.text.toString()
            val params = RequestParams()
```

```
params.put("title", kajianTitle)
params.put("ustadz_id",
!= getString(R.string.example path)) {
File(binding!!.tvKajianImagePath.text.toString())
               } else params.put("yt_url", kajianYtLink)
params.put("place", kajianCategory)
params.put("desc", kajianDescription)
params.put("due", kajianDateTimeDue)
AsyncHttpResponseHandler() {
headers: Array<Header>, responseBody: ByteArray) {
Toast.makeText(this@AddUpdateKajianActivity,
getString(R.string.add kajian success),
                         finish()
                    override fun onFailure(statusCode: Int,
headers: Array<Header>, responseBody: ByteArray, error:
                         Log.e("ERROR", String(responseBody))
                              ${String(responseBody)}
binding!!.spKajianCategory.selectedItem.toString()
```

```
(StringHelper.isNullOrEmpty(binding!!.edtKajianYtLink.text.toSt
ring())) {
ing())) {
Toast.LENGTH SHORT).show()
getString(R.string.example id)) {
getString(R.string.kajian mosque empty),
Toast. LENGTH SHORT) .show()
(StringHelper.isNullOrEmpty(binding!!.edtKajianDescription.text
getString(R.string.kajian desc empty),
tring()) ||
ring())) {
getString(R.string.kajian due empty),
```

```
== getString(R.string.example path)) {
File(binding!!.tvKajianImagePath.text.toString())
AsyncHttpResponseHandler() {
headers: Array<Header>, responseBody: ByteArray) {
View. GONE
View. GONE
Toast.makeText(this@AddUpdateKajianActivity,
getString(R.string.add kajian success),
```

f. Menu Masjid

- a) Tampilan
 - fragment_mosque_list.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="ui.mosque.MosqueListFragment">

    <androidx.swiperefreshlayout.widget.SwipeRefreshLayout
        android:id="@+id/pullToRefresh"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/relativeLayout">
        <androidx.recyclerview.widget.RecyclerView</pre>
```

```
<RelativeLayout
</RelativeLayout>
<RelativeLayout
```

activity_mosque_chooser.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
   <androidx.appcompat.widget.Toolbar</pre>
   <TextView
   <TextView
        android:textColor="?android:textColorLink"
```

```
android:layout_below="@id/tvMosqueNote"
android:background="@android:color/white"
          android: visibility="gone">
          <ProgressBar
          <TextView
     </RelativeLayout>
          android:text="@string/back" />
</RelativeLayout>
```

b) Program

- MosqueListFragment.kt

```
import android.content.Intent
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.view.inputmethod.EditorInfo
import android.widget.Toast
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import androidx.recyclerview.widget.LinearLayoutManager
```

```
import com.kajianid.ustadz.prefs.CredentialPreference import com.loopj.android.http.AsyncHttpClient
MosqueChooserViewModel
         super.onCreate(savedInstanceState)
                                 savedInstanceState: Bundle?):
    override fun onActivityCreated(savedInstanceState: Bundle?)
         super.onActivityCreated(savedInstanceState)
LinearLayoutManager(context)
         mosqueListViewModel = ViewModelProvider(this,
ViewModelProvider.NewInstanceFactory())
             if (it != null) {
                  mosqueListAdapter.setMosques(it)
         })
         context?.let { mosqueListViewModel.setMosqueAsync(it,
```

```
parse.getString("message"), Toast.LENGTH SHORT).show()
parse.getString("message"), Toast.LENGTH SHORT).show()
MosqueChooserActivity::class.java)
MosqueChooserActivity.REQUEST MOSQUE)
```

```
resources.getString(R.string.progress add mosque) +
mosque.mosqueName
progressMsg
AsyncHttpResponseHandler() {
                        override fun onSuccess (statusCode: Int,
headers: Array<out Header>?, responseBody: ByteArray?) {
resources.getString(R.string.add mosque success) +
mosque.mosqueName, Toast.LENGTH SHORT).show()
GlobalScope. launch(Dispatchers.Main) {
async(Dispatchers.IO) {
binding.etSearchMosque.text.toString(), true)
deferredStatus.await()
binding.pullToRefresh.isRefreshing = false
JSONObject(status)
parse.getString("message"), Toast.LENGTH SHORT).show()
```

MosqueListAdapter.java

```
import android.annotation.SuppressLint;
import android.app.AlertDialog;
import android.content.Intent;
import android.location.Address;
import android.location.Geocoder;
import android.view.LayoutInflater;
import android.view.LayoutInflater;
import android.widget.Toast;
import android.widget.Toast;
import android.widget.Toast;
import android.x.recyclerview.widget.RecyclerView;
import com.google.android.gms.maps.model.LatLng;
import com.kajianid.ustadz.R;
import com.kajianid.ustadz.data.Mosque;
import com.kajianid.ustadz.databinding.ItemMosqueListBinding;
import com.kajianid.ustadz.tills.StringHelper;
import com.kajianid.ustadz.utils.StringHelper;
import com.loopj.android.http.AsyncHttpResponseHandler;
import java.util.List;
import java.util.ArrayList;
import java.util.Locale;
import cz.msebera.android.httpclient.Header;

public class MosqueListAdapter extends
RecyclerView.Adapter
RecyclerView.Adapter
MosqueShooserViewHolder>
{
    private final ArrayList
mosque> mosques = new
ArrayList
ArrayList
mosque> mosques
```

```
RecyclerView.ViewHolder {
        public MosqueChooserViewHolder(@NonNull
        public void bind(Mosque mosque, int position) throws
Double.parseDouble(latLngArray[0]);
Double.parseDouble(latLngArray[1]);
                LatLng location = new LatLng(latitude,
longitude);
geocoder.getFromLocation(
```

```
AlertDialog.Builder(binding.getRoot().getContext())
"?g=" + mosque.getLatLng() + "(" + mosque.getMosqueName() +
mapIntent.setPackage("com.google.android.apps.maps");
binding.getRoot().getContext().startActivity(mapIntent);
Toast.makeText(binding.getRoot().getContext(), "Aplikasi
Toast.LENGTH SHORT).show();
.setMessage(binding.getRoot().getContext().getString(R.string.d
= new CredentialPreference(binding.getRoot().getContext());
preference.getCredential().getUsername();
binding.getRoot().getContext().getString(R.string.server) +
AsyncHttpClient();
                                client.delete(api, new
```

```
AsyncHttpResponseHandler() {
statusCode, Header[] headers, byte[] responseBody) {
statusCode, Header[] headers, byte[] responseBody, Throwable
error) {
binding.getRoot().getContext(),
Toast. LENGTH SHORT
```

MosqueChooserActivity.java

```
import android.app.SearchManager;
import android.content.Context;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.Window;
import android.view.Window;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.SearchView;
import androidx.lifecycle.ViewModelProvider;
import androidx.recyclerview.widget.LinearLayoutManager;
import com.kajianid.ustadz.R;
import
```

```
protected void onCreate(Bundle savedInstanceState) {
        supportRequestWindowFeature(Window.FEATURE NO TITLE);
ActivityMosqueChooserBinding.inflate(getLayoutInflater());
        setFinishOnTouchOutside(false);
        setSupportActionBar(binding.toolbar);
            Uri whatsAppUri = Uri.parse("https://wa.me/" +
```

```
bundle.getBoolean(EXTRA IS USTADZ ONLY, true);
    public boolean onCreateOptionsMenu(Menu menu) {
menu.findItem(R.id.search).getActionView();
searchView.setSearchableInfo(searchManager.getSearchableInfo(ge
tComponentName()));
searchView.setQueryHint(getString(R.string.search mosque));
        searchView.setOnQueryTextListener(new
            public boolean onQueryTextSubmit(String query) {
binding.progressMessage.setVisibility(View.VISIBLE);
            public boolean onQueryTextChange(String newText) {
```

```
}
});

return true;
}

@Override
protected void onDestroy() {
    super.onDestroy();
    binding = null;
}
```

- MosqueChooserAdapter.java

```
public void setMosques(ArrayList<Mosque> mosques) {
onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
ItemMosqueBinding.inflate(LayoutInflater.from(parent.getContext
        return new MosqueChooserViewHolder(binding);
    public void onBindViewHolder(@NonNull
MosqueChooserAdapter.MosqueChooserViewHolder holder, int
position) {
```

```
public MosqueChooserViewHolder(@NonNull
Double.parseDouble(latLngArray[0]);
Double.parseDouble(latLngArray[1]);
longitude);
```

- g. Menu Tentang
 - a) Tampilan
 - activity_about.xml

```
xmlns:android="http://schemas.android.com/apk/res/android"
    <com.google.android.material.appbar.AppBarLayout</pre>
    </com.google.android.material.appbar.AppBarLayout>
    <RelativeLavout
        <ImageView</pre>
             android:layout height="60dp"
        <TextView
```

```
android:textSize="14sp" />
    </RelativeLayout>
</LinearLayout>
```

fragment_developers.xml

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="ui.about.DevelopersFragment">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="8dp"
        android:orientation="vertical">
```

```
<TextView
   android:textStyle="bold" />
        <TextView
            android:textAlignment="textEnd"
        android:layout width="match parent"
        android:layout height="match parent"
        <TextView
```

```
android:layout marginEnd="16dp
         android:layout_weight="urap_content" android:layout_weight="1"
</TableRow>
    <TextView
    <TextView
</TableRow>
     <TextView
```

```
</TableRow>
        </TableLayout>
    </LinearLayout>
</scrollView>
```

b) Program

- AboutActivity.java

```
import android.annotation.SuppressLint;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.Menu;
import android.view.Menu;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import com.kajianid.ustadz.R;
import com.kajianid.ustadz.databinding.ActivityAboutBinding;
import java.util.Objects;
```

```
public class AboutActivity extends AppCompatActivity {
ActivityAboutBinding.inflate(getLayoutInflater());
        setSupportActionBar(binding.toolbar);
    public boolean onCreateOptionsMenu(Menu menu) {
    public boolean onOptionsItemSelected(@NonNull MenuItem
```

AboutPagerAdapter.java

```
package com.kajianid.ustadz.ui.about;
import android.content.Context;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.annotation.StringRes;
import androidx.fragment.app.Fragment;
```

```
public AboutPagerAdapter(Context context, FragmentManager
    return DevelopersFragment.newInstance(position);
public CharSequence getPageTitle(int position) {
public int getCount() {
```

DevelopersFragment.java

```
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import com.bumptech.glide.Glide;
import
com.kajianid.ustadz.databinding.FragmentDevelopersBinding;
import com.kajianid.ustadz.utils.DeveloperData;

public class DevelopersFragment extends Fragment {
    private static final String ARG_DEVELOPER_POSITION =
    "arg_developer_position";
```

```
public DevelopersFragment() {
   public void onCreate(Bundle savedInstanceState) {
binding.tvGitHub.setText(DeveloperData.githubUsername[position]
```

```
String githubUrl = "https://github.com/" +
DeveloperData.githubUsername[position];
    binding.btnVisit.setOnClickListener(itView -> {
        Intent i = new Intent(Intent.ACTION_VIEW);
        i.setData(Uri.parse(githubUrl));
        startActivity(i);
    });
}
```

h. Menu Pengaturan

a) Tampilan (activity_settings.xml)

b) Program (SettingsActivity.java)

```
import android.content.Intent;
import android.os.Bundle;
import android.view.MenuItem;
import android.widget.Toast;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.app.AppCompatDelegate;
import androidx.preference.ListPreference;
import androidx.preference.Preference;
import androidx.preference.PreferenceFragmentCompat;
import androidx.preference.PreferenceFragmentCompat;
import com.google.android.material.snackbar.BaseTransientBottomBar;
import com.google.android.material.snackbar.Snackbar;
import com.kajianid.ustadz.R;
import com.kajianid.ustadz.data.Credential;
import com.kajianid.ustadz.data.Ustadz;
import com.kajianid.ustadz.data.Ustadz;
import com.kajianid.ustadz.data.Ustadz;
import com.kajianid.ustadz.datalinding.ActivitySettingsBinding;
import com.kajianid.ustadz.prefs.CredentialPreference;
import com.kajianid.ustadz.ui.credential.EditIdentityActivity;
```

```
import com.loopj.android.http.Asynchttpclient;
import com.loopj.android.http.AsynchttpResponseHandler;
import org.json.JSONException;
import org.json.JSONObject;
import java.util.Objects;
          super.onCreate(savedInstanceState);
         setSupportActionBar(binding.toolbar);
Objects.requireNonNull(getSupportActionBar()).setTitle(getString(R
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    protected void onDestroy() {
    public static class SettingsFragment extends
PreferenceFragmentCompat {
         public void onCreatePreferences(Bundle savedInstanceState,
rootKey);
              ListPreference theme = findPreference("theme");
               Preference changePassword =
               theme.setOnPreferenceChangeListener((preference,
```

```
newValue) -> {
                       switch (newValue.toString()) {
getString(R.string.failed_load_data) + ": Failed Parsing",
BaseTransientBottomBar.LENGTH_SHORT).show();
```

```
.setTitle(getString(R.string.sure))
                            credential.setPassword("");
getString(R.string.goodbye), Toast.LENGTH SHORT).show();
                            startActivitv(i);
                        .setNegativeButton(getString(R.string.no),
null)
```

i. Menu Edit Akun

a) Tampilan

- activity_edit_identity.xml

```
<RelativeLavout
xmlns:android="http://schemas.android.com/apk/res/android"
    <com.google.android.material.textfield.TextInputLayout</pre>
        <EditText
            android:inputType="textPersonName" />
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout</pre>
        <EditText
            android:inputType="phone" />
    </com.google.android.material.textfield.TextInputLayout>
        <EditText
            android:inputType="textPostalAddress" />
    </com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout</pre>
    <EditText
</com.google.android.material.textfield.TextInputLayout>
    android:orientation="horizontal">
<ProgressBar
    android:visibility="gone" />
<RelativeLayout
    android:layout height="wrap content"
```

activity_edit_password.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
        <EditText
    </com.google.android.material.textfield.TextInputLayout>
            android:inputType="textPassword" />
    <com.google.android.material.textfield.TextInputLayout</pre>
```

```
<EditText
            android:inputType="textPassword" />
            android:layout alignParentEnd="true"
    </RelativeLayout>
</RelativeLayout>
```

b) Program

- EditIdentityActivity.java

```
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import com.kajianid.ustadz.R;
import com.kajianid.ustadz.data.Ustadz;
import
com.kajianid.ustadz.databinding.ActivityEditIdentityBinding;
import com.kajianid.ustadz.prefs.CredentialPreference;
import com.kajianid.ustadz.utils.StringHelper;
import com.loopj.android.http.AsyncHttpClient;
import com.loopj.android.http.RequestParams;
import cz.msebera.android.httpclient.Header;
```

```
public class EditIdentityActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
ActivityEditIdentityBinding.inflate(getLayoutInflater());
        setFinishOnTouchOutside(false);
bundle.getParcelable(EXTRA PARCEL USTADZ);
tring())) {
binding.edtUstadzName.setError(getString(R.string.require to fi
(!StringHelper.isValidEmail(binding.edtEmailAddress.getText().t
binding.edtEmailAddress.setError(getString(R.string.invalid ema
```

```
String())) {
binding.edtPhoneNumber.setError(getString(R.string.require to f
                      String api = getString(R.string.server) +
preference.getCredential().getUsername();
AsyncHttpClient();
AsyncHttpResponseHandler() {
Header[] headers, byte[] responseBody) {
Toast.makeText(EditIdentityActivity.this,
getString(R.string.success modify identity),
Header[] headers, byte[] responseBody, Throwable error) {
Toast.makeText(EditIdentityActivity.this,
getString(R.string.failed_modify_identity) +
error.getMessage(), Toast.LENGTH_SHORT).show();
```

```
@Override
protected void onDestroy() {
    super.onDestroy();
    binding = null;
}
```

- EditPasswordIdentity.java

```
com.kajianid.ustadz.databinding.ActivityEditPasswordBinding;
    private ActivityEditPasswordBinding binding;
    protected void onCreate(Bundle savedInstanceState) {
ActivityEditPasswordBinding.inflate(getLayoutInflater());
        setFinishOnTouchOutside(false);
(binding.edtOldPassword.getText().toString().equals(oldPassword
(binding.edtNewPassword.getText().toString().length() < 6) {</pre>
binding.edtNewPassword.setError(getString(R.string.new password
(binding.edtConfirmPassword.getText().toString().length() < 6)</pre>
```

```
binding.edtConfirmPassword.setError(getString(R.string.confirm
((binding.edtNewPassword.getText().toString().length() >= 6) &&
(binding.edtConfirmPassword.getText().toString().length() >=
binding.edtConfirmPassword.getText().toString()
                        String api = getString(R.string.server)
AsyncHttpClient();
RequestParams();
preference.getCredential().getUsername());
AsyncHttpResponseHandler() {
                            public void onSuccess (int
statusCode, Header[] headers, byte[] responseBody) {
credential.setUsername(preference.getCredential().getUsername()
credential.setPassword(binding.edtNewPassword.getText().toStrin
g());
Toast.makeText(EditPasswordActivity.this,
Toast. LENGTH SHORT) . show();
                            public void onFailure(int
Toast.makeText(EditPasswordActivity.this,
```

j. Arrays.xml

k. colors.xml

l. strings.xml

```
<string name="add_post">Tambah Post</string>
<string name="add_kajian">Tambah Kajian</string>
<string name="example_kajian_title">Untukmu yang sedang dalam
      <string name="example_tanggal">12 Januari 2020</string>
<string name="search_kajian">Cari kajian...</string>
12345</string>
       <string name="cancel">Batalkan</string>
```

```
<string name="select_image">Pilih Gambar...</string>
<string name="example_path">C:\\Program Files\\Adobe\\Adobe
diisi!</string>
```

```
<string name="tab_mosque">MASJID</string>
<string name="add_mosque">Tambah Masjid</string>
<string name="choose_action_mosque">Pilih aksi yang akan Anda
<string name="view_on_maps">Lihat di Maps</string>
<string name="progress_add_mosque">"Mohon menunggu, kami sedang
<string name="update kajian">Perbarui Kajian</string>
<string name="change password">Ubah Password</string>
<string name="leader">KETUA</string>
```

```
<string name="member_one">ANGGOTA 1</string>
<string name="member_two">ANGGOTA 2</string>
<string name="member_three">ANGGOTA 3</string>
      <string name="member four">ANGGOTA 4</string>
Saya</string>
      <string name="mosque unregistered">Masjid/Lokasi tidak terdaftar?
</resources>
```

m. Tema

a) themes.xml

b) themes.xml (night)

n. AndroidManifest.xml

o. build.gradle (Module)

BAB IV KESIMPULAN DAN SARAN

A. KESIMPULAN

Aplikasi KAJIAN.ID USER merupakan aplikasi yang dapat digunakan oleh masyarakat untuk mengetahui info kajian rutin yang telah dijadwalkan agar masyarakat tetap dapat melaksanakan kajian rutin secara online dengan aman dan mudah. Tak hanya itu, aplikasi ini juga dilengkapi dengan artikel Islami yang dapat diunduh dan dibaca secara offline.

Aplikasi KAJIAN.ID USTADZ merupakan aplikasi yang dapat digunakan oleh ustadz atau ustadzah untuk memudahkan penyampaian informasi kajian secara online dan membagikan artikel-artikel Islamiah.

Fitur-fitur yang terdapat dalam aplikasi KAJIAN.ID USER, yaitu:

- a. Menyimpan artikel dan pengingat kajian Islami.
- b. Menghapus artikel atau kajian yang telah disimpan.
- c. Melihat masjid atau lokasi yang biasanya diadakan kajian.
- d. Tema terang atau gelap yang membantu pengguna aplikasi.
- e. Mengurangi cahaya yang ditangkap oleh mata.
- f. Membagikan artikel atau kajian ke media sosial. Fitur-fitur yang terdapat dalam aplikasi KAJIAN.ID USTADZ, yaitu:
- a. Menambah, mengubah, atau menghapus artikel Islami.
- b. Menambah, mengubah, atau menghapus kajian yang akan atau telah dilaksanakan.
- c. Mengelola masjid atau lokasi yang biasanya diadakan kajian.
- d. Tema terang atau gelap yang membantu pengguna aplikasi ini mengurangi cahaya yang ditangkap oleh mata.
- e. Mengunggah alamat video atau live streaming dari YouTube.
- f. Membagikan artikel atau kajian ke media sosial.

B. SARAN

Adapun saran-saran yang diberikan untuk penyempurnaan dan pengembangan aplikasi ini adalah sebagai berikut.

- a. Aplikasi ini sudah dapat digunakan dengan baik tanpa adanya error atau bug. Namun, masih ada beberapa tambahan untuk pengembangan aplikasi ke depannya agar nantinya aplikasi ini dapat dikembangkan menjadi aplikasi yang lebih kompleks.
- b. Diharapkan untuk perkembangan ke depannya, aplikasi ini dapat ditambahkan dari sisi admin. Karena terkendala waktu maka kami, perancang aplikasi ini, belum dapat menyempurnakan aplikasi ini.