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1 INTRODUCTION

We, the eager-learners of Diploma in Computer Technology developed a simple Learning application for the kids of pre-schooling i.e. for pre-primary students. The kids learning application of ours' focuses mainly to attract the kids more and more by the features we have added in it by all our strengths. We have done this project successfully under the guidance of our very co-operative staff in-charge Mrs. Trigule D.J. Our application maximum tries to gain the attention of kids by the realistic pictures, sounds, animations, videos, etc. Though there are many learning applications available in the market but we developed our application in such a way that it will surely compete with most of the applications at this level. When our entire team was in confusion in making a decision to develop any learning application then the first and foremost idea clicked into our brains was developing a 'C' programming application. So, our guide suggested that a learning application for kids will stand strong because many of them say that "If the base anything is strong then the future will also be strong." So, that was the reason we started building this learning application for the kids to make them sharp before going to schools.

1.1 BACKGROUND

There's a strong and reasonable motive behind developing such application is to make a kid sharp before entering his higher school. This is because as we know that whatever we provided in our application is available in the books, magazines, charts, etc. But we know that a kid's brain is not so matured and isn't concentrated at a same thing for a period of time. To fix this problem, we tried to teach them by our application through beautiful and attractive interfaces. As we know that now-a-days, each and every kid is attracted to electronic devices like the computers, tablets, laptops and mobile devices. The basic motive behind developing our project is "We knew at the beginning that any kid learns faster by hearing." Because we know that a kid identifies a cow, cat, dog in his daily life by their cry. So we not only added the images of the animals and birds but also added their realistic cries. We also added colors, rhymes, activities in our project to test their kids from their parents. Because, a learning application not only focuses on teaching but also enables the learners to test themselves. The first doubt that comes into the user's mind after accessing the activity section of our application is that all the questions are in the text format and the kid at that age is not able to read them. So by taking all the care of each kid who learns through our application, we fixed this problem. We first displayed the simple questions in bold and then when a kid clicks on that particular question then he/she can hear it and can answer that question easily. This feature is added for the correct and wrong answers also.

1.2 PROBLEM DEFINITION

As we have handled the on click events of each and every control in our application, we have added the sounds clips for every control for better and attractive learning for the kid. We aren't satisfied with whatever we have done we want to achieve the animation when a kid clicks on a control like any animal or any bird if suppose a kid clicks on a cat then now in current state, only the cry of that cat is visible or heard. But in addition, we want animation with this all. Another problem definition in our application is that we have added the most popular rhymes for the kids but the problem comes about the internet connectivity. Our application requires the internet connectivity only when a kid wants to hear or see the rhymes not for all other controls. Quite faster internet connectivity fixes this problem but as you know that there is an internet connectivity problem at many regions so, this is a problem for our application and we will try to solve it as soon as possible for the kid's betterment. We have added a questionnaire for the kids at the end. Though we have added the questions and answers in a simple but effective way but still we are in satisfied with that each and every question should be of animated type so the kid will get attracted to the application and spends more and more time and also become sharper.

1.2.A SOFTWARE REQUIREMENT SPECIFICATION

- Operating System : Windows
- RAM : 8GB
- HDD : 1TB
- Database : None
- Software : Android Studio
- Emulator : Android
- Java Development Kit (JDK) : Java 17.0.2
- Software Development Kit (SDK) / API Level : Level 30

1.2.B PROJECT PLAN

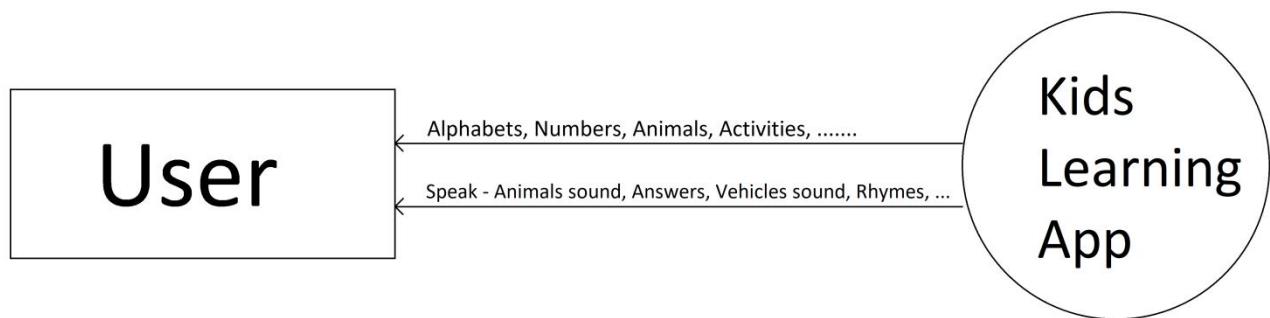
Tab1.1

PROJECT PLAN

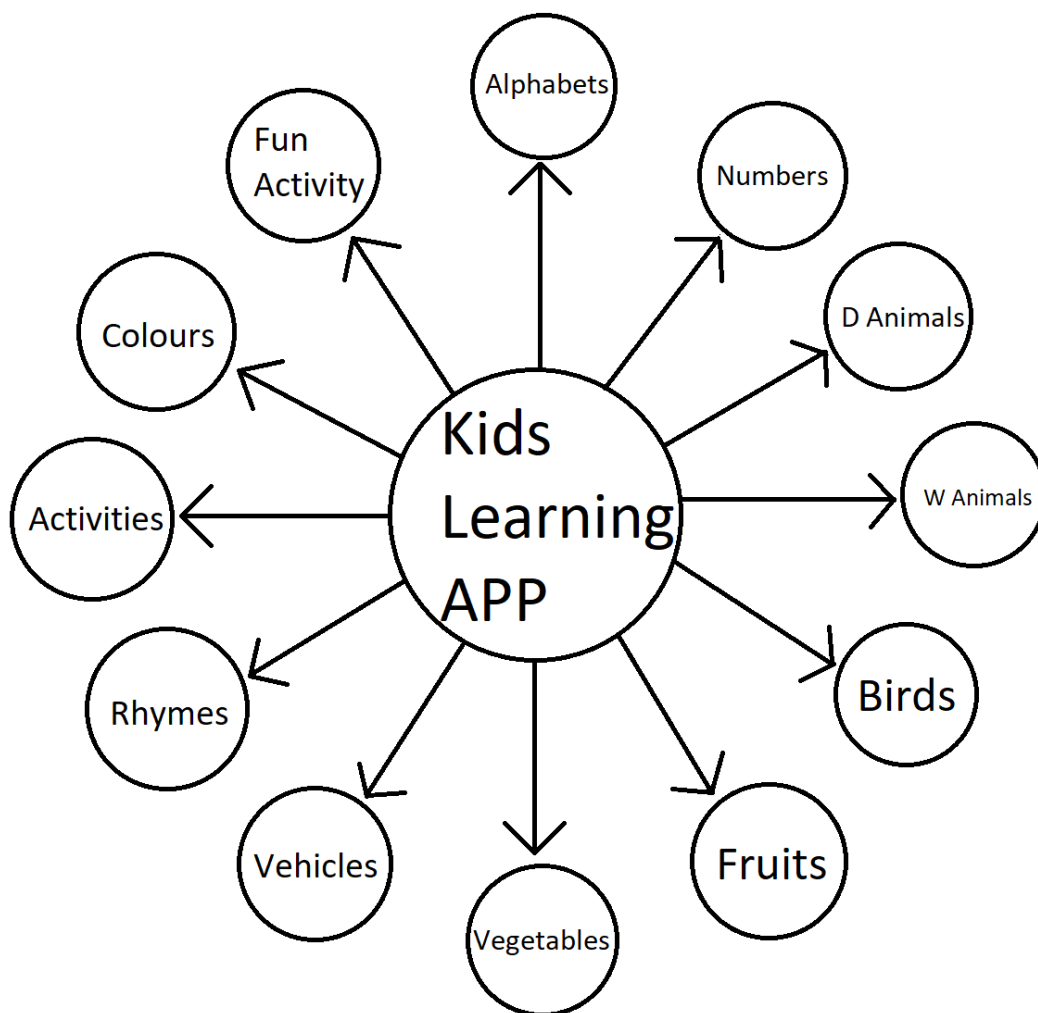
Sr. No.	Week no.	Actual work done
1	Sep 1 st week	Group members were selected and finalized.
2	Sep 2 nd week to 4 th week	Browsed for a suitable, helpful and desired topic.
3	Oct 1 st week to 2 nd week	Separate work assignment was given to each team member.
4	Oct 3 rd week to Nov 2 nd week	Drawn the imaginary outline structure of the application.
5	Nov 3 rd week to 4 th week	Defined problem definition and survey questions were collected.
6	Dec 1 st week to 2 nd week	Gathered all the hardware and software requirements required for the project.
7	Dec 3 rd week & 4 th week	Submitted entire plan's report with all specified points.
8	Feb 2 nd week to 3 rd week	Designed the structure of project and Properly self-assessed the structure of project.
9	Feb 4 th week	Implemented required and desired functionalities in the application.
10	Mar 1 st week & 2 nd week	Designed the activity diagram.
11	Mar 3 rd week & 4 th week	Implemented front-end activity.
12	Apr 1 st week to 4 th week	Developed the application in Android Studio by taking required references.
13	May 1 st week	Added some extra features for every interface of the application.
14	May 2 nd week	Properly tested the application.

2 PROJECT ANALYSIS

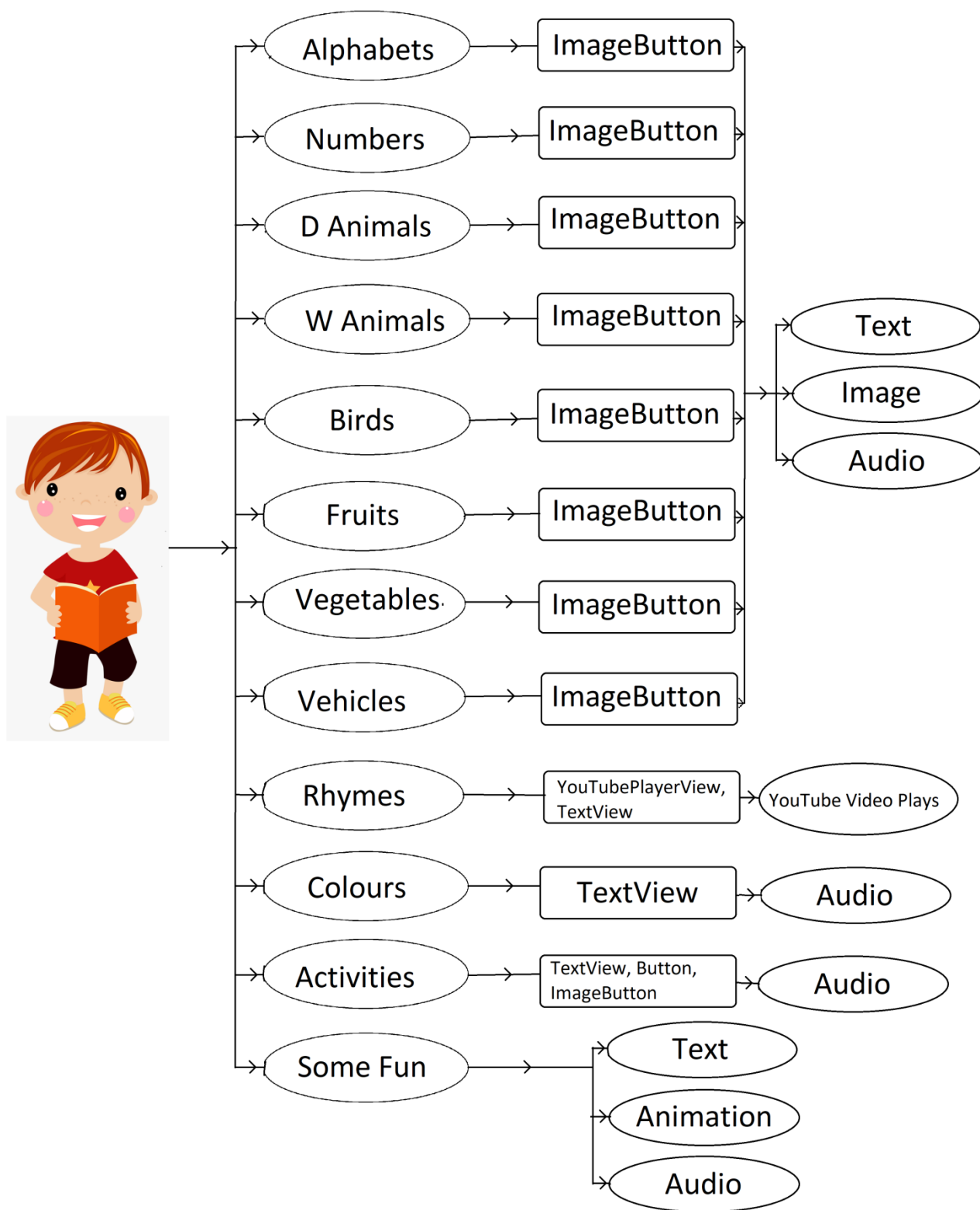
2.1 DFD level 0



2.2 DFD level 1



2.3 Work Flow Diagram



3 PROJECT DESIGN

3.1 DESIGN MODULE

a. Alphabets :

here all alphabets are displayed.

b. Numbers :

here ten numbers are displayed.

c. Domestic Animals :

here Domestic Animals are displayed

d. Wild Animals :

here Wild Animals are displayed.

e. Birds :

here Birds are displayed.

f. Fruits :

here Fruits are displayed.

g. Vegetables :

here Vegetables are displayed.

h. Rhymes :

here Rhymes are displayed.

i. Colours :

here Colours are displayed.

j. Activities :

here some Activities(quiz and answer) are taken.

k. Tricky, Fun, Craze :

here we displayed some animation and gif's.

4 PROJECT IMPLEMENTATION & CODING

4.1 GUI IMPLEMENTATION

Fig 4.1 Main Screen 1



Fig 4.2 Main Screen 2



Fig 4.3 Main Screen 3



Fig 4.4 Main Screen 4

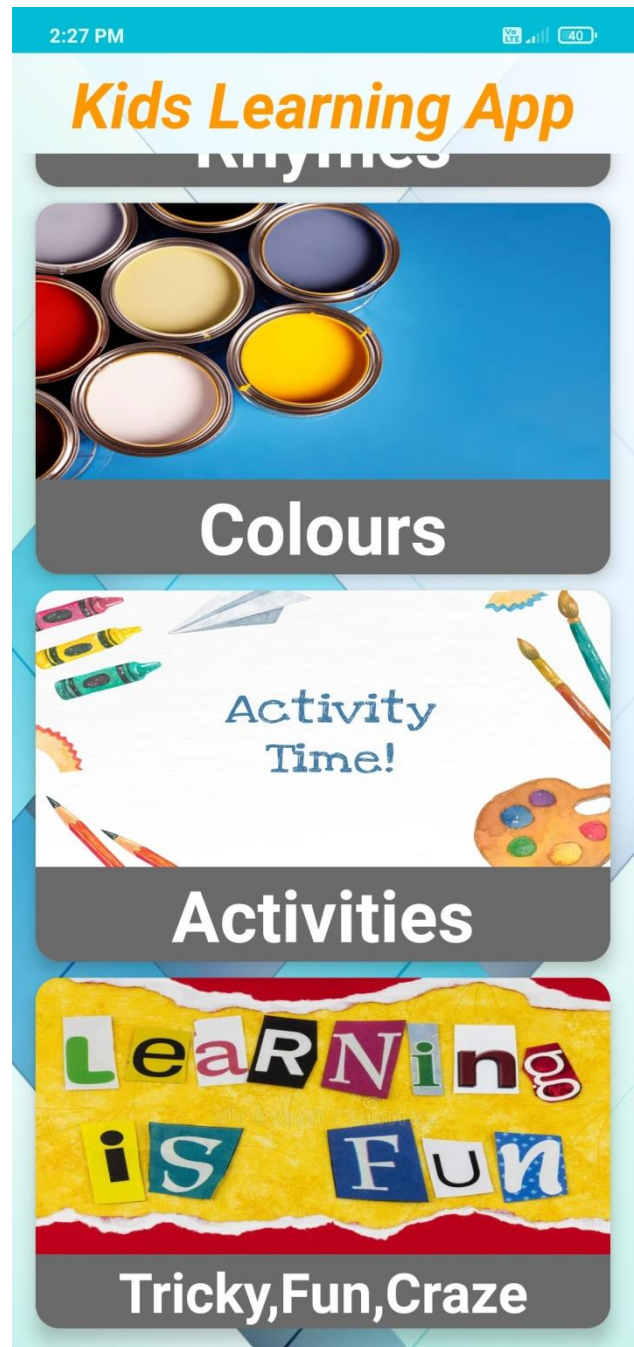


Fig 4.5 Alphabets

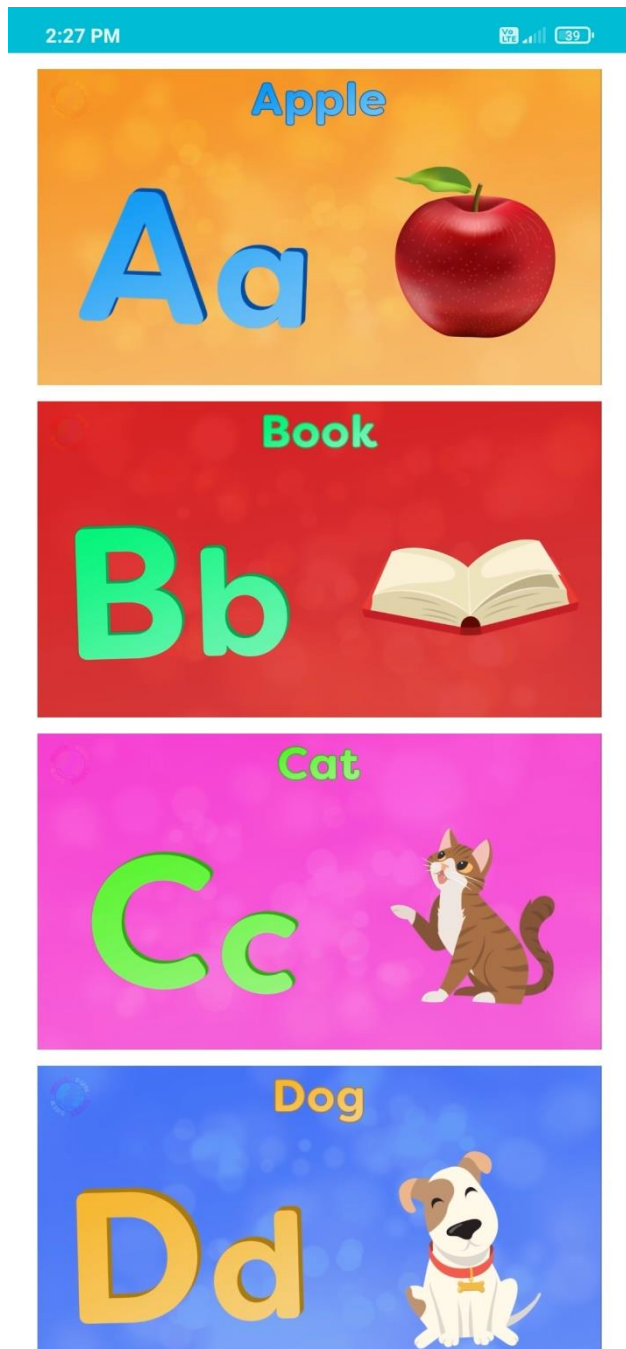


Fig 4.6 Numbers



Fig 4.7 D Animals

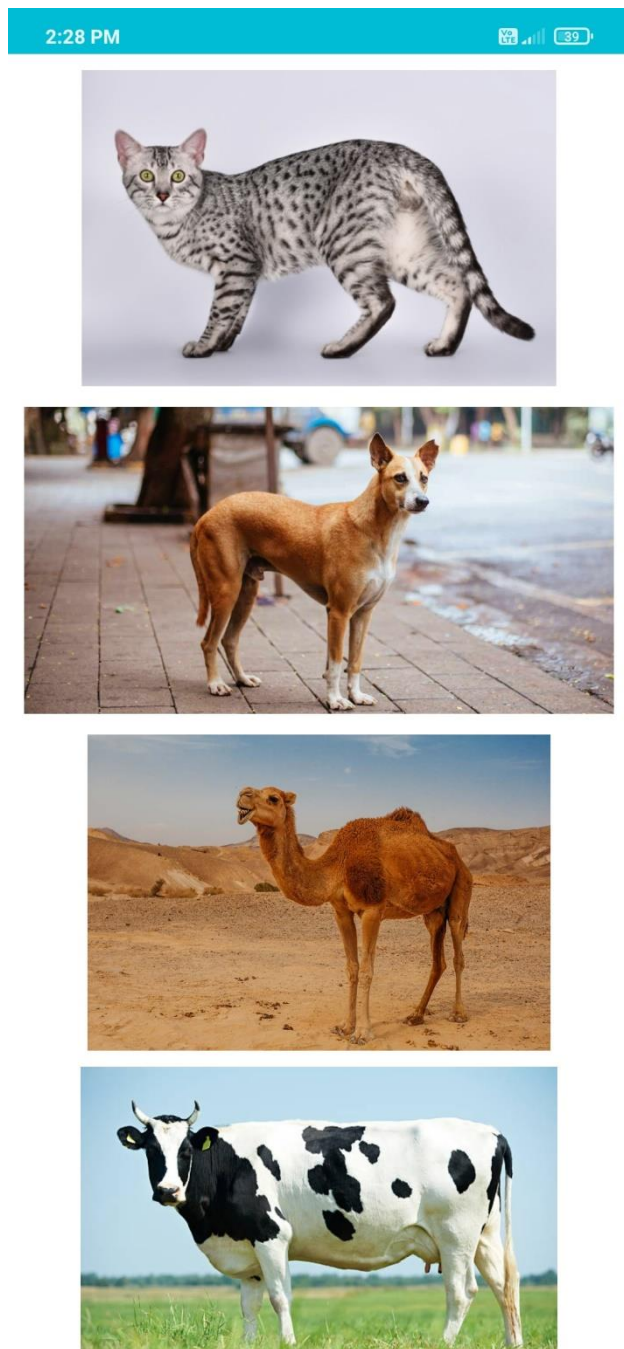


Fig 4.8 W Animals

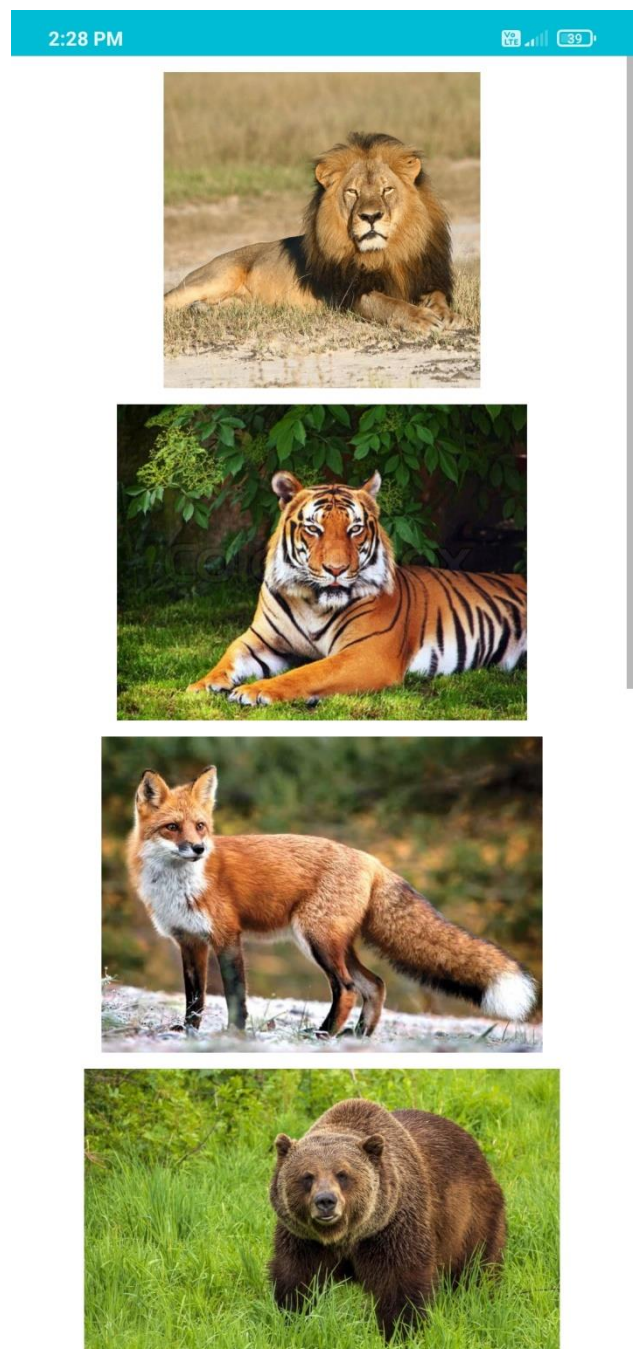


Fig 4.9 Birds

2:28 PM



Fig 4.10 Fruits

2:28 PM



Fig 4.11 Vegetables

2:29 PM



Fig 4.12 Vehicles

2:29 PM



Fig 4.13 Rhymes



1. Johnny Johnny Yes Papa Rhyme



2. Twinkle Twinkle Little star Rhyme



3. Teddy Bear Teddy Bear turn around Rhyme

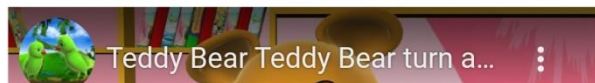


Fig 4.14 Colours



Fig 4.15 Activities screen 1

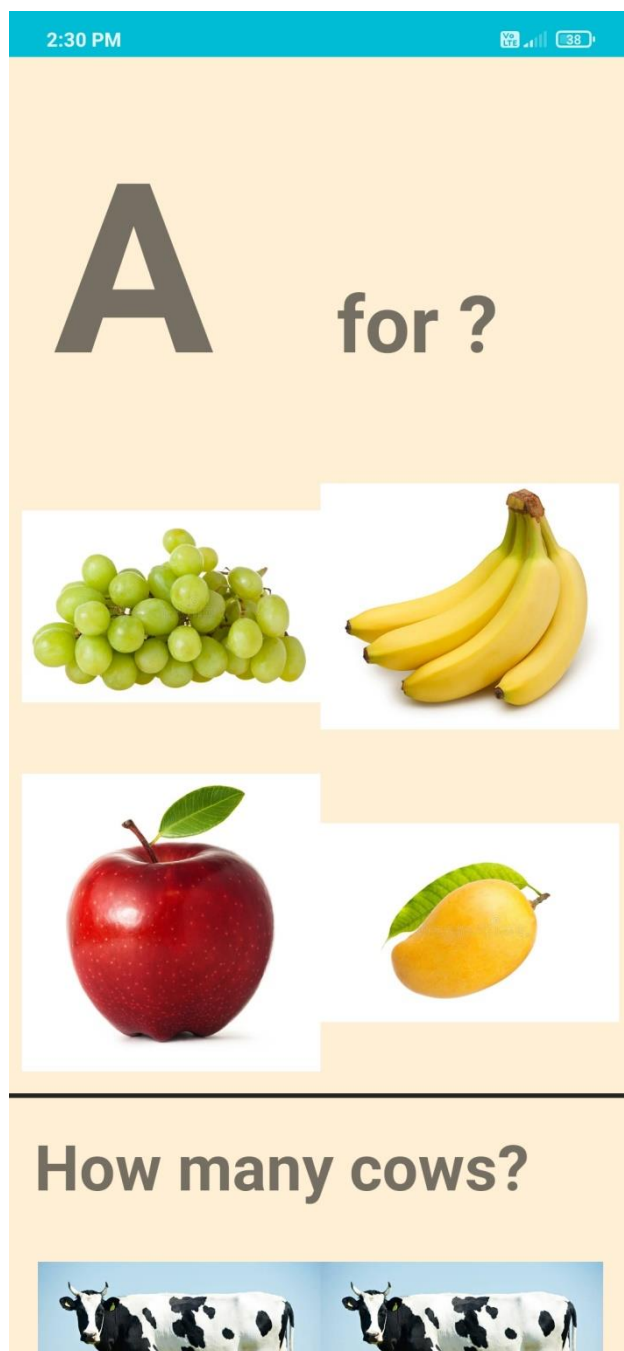


Fig 4.16 Activities screen 2

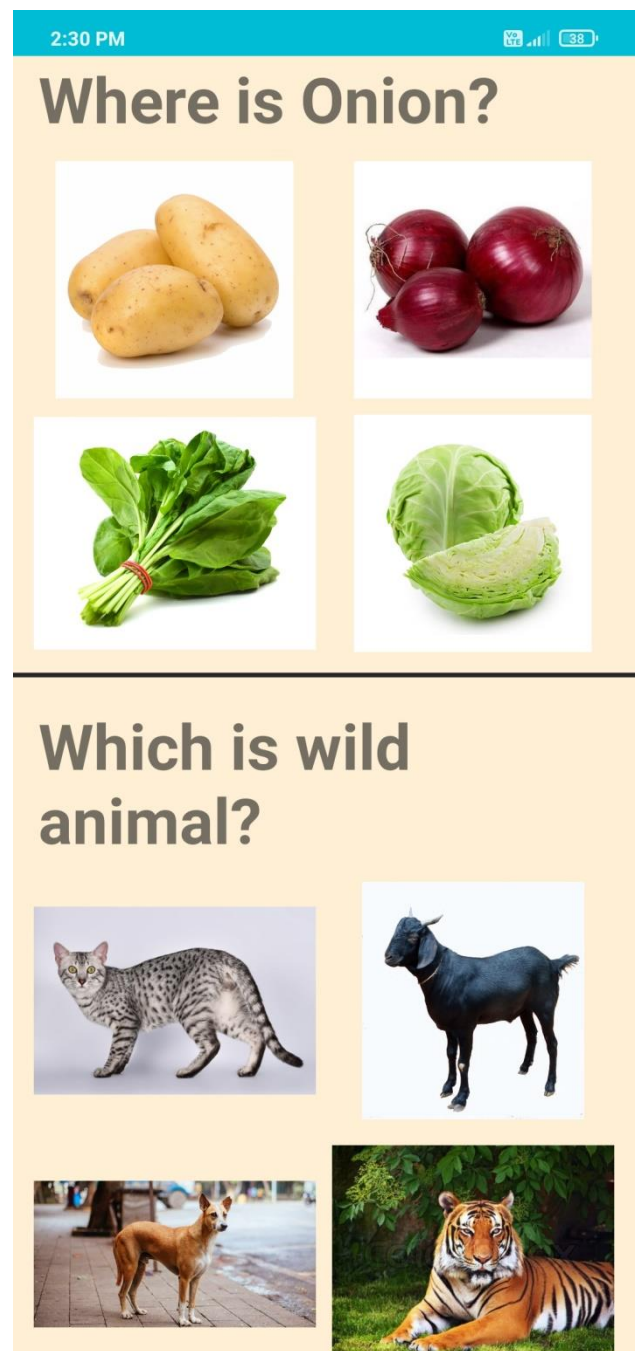


Fig 4.17 Tricky,Fun,Craze

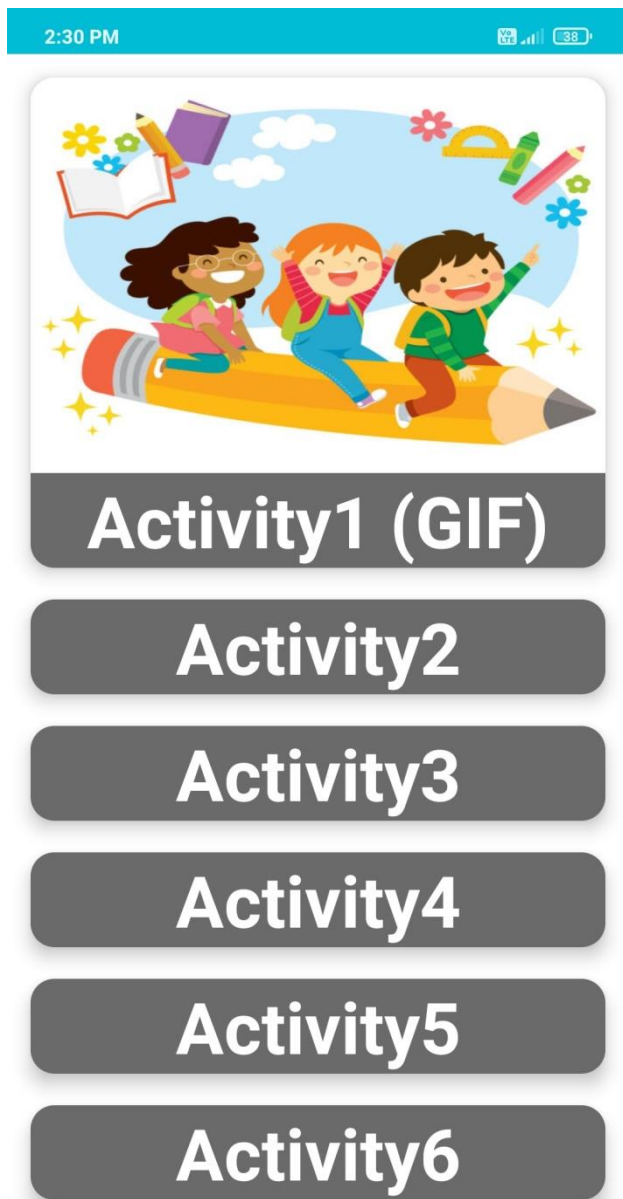


Fig 4.18 GIF screen 1



Fig 4.19 GIF screen 2



Fig 4.20 GIF Screen 3



Fig 4.21 Animation 1 screen 1



**Pick out the
coconut**

Fig 4.22 Animation 1 Screen 2



**Pick out the
coconut**



Fig 4.23 Animation 2 screen 1



**Which vehicle has
three wheels**



Fig 4.24 Animation 2 screen 2



**Which vehicle has
three wheels**



Fig 4.25 Animation 3 screen 1



**Pick out the fruit
which is yellow in
colour**



Fig 4.26 Animation 3 screen 2



**Pick out the fruit
which is yellow in
colour**



4.2 CODE DETAILS

activity_main.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"
    android:background="@drawable/background"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/heading"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="5dp"
        android:text="Kids Learning App"
        android:textAlignment="center"
        android:textColor="#FF9800"
        android:textSize="40sp"
        android:textStyle="bold|italic" />

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_below="@id/heading">

        <GridLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:rowCount="12"
            android:columnCount="1">

            <androidx.cardview.widget.CardView
                android:id="@+id/alphabets"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_row="0"
                android:layout_column="0"
```

```
android:layout_gravity="fill"
android:layout_rowWeight="1"
android:layout_marginLeft="15dp"
android:layout_marginRight="15dp"
android:layout_marginTop="15dp"
android:layout_marginBottom="5dp"
app:cardElevation="8dp"
app:cardCornerRadius="15dp"
android:layout_columnWeight="1">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/alphabets"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Alphabets"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:id="@+id/numbers"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="1"
```

```
android:layout_column="0"
android:layout_gravity="fill"
android:layout_rowWeight="1"
android:layout_marginLeft="15dp"
android:layout_marginRight="15dp"
android:layout_marginTop="5dp"
android:layout_marginBottom="5dp"
app:cardElevation="8dp"
app:cardCornerRadius="15dp"
android:layout_columnWeight="1">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/numbers"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Numbers"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:id="@+id/d_animals"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
android:layout_row="2"
android:layout_column="0"
android:layout_gravity="fill"
android:layout_rowWeight="1"
android:layout_marginLeft="15dp"
android:layout_marginRight="15dp"
android:layout_marginTop="5dp"
android:layout_marginBottom="5dp"
app:cardElevation="8dp"
app:cardCornerRadius="15dp"
android:layout_columnWeight="1">
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
```

```
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/domestic_animals"/>
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Domestic Animals"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="40sp"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
```

```
    android:id="@+id/w_animals"
    android:layout_width="wrap_content"
```



```
android:layout_height="wrap_content"
android:layout_row="3"
android:layout_column="0"
android:layout_gravity="fill"
android:layout_rowWeight="1"
android:layout_marginLeft="15dp"
android:layout_marginRight="15dp"
android:layout_marginTop="5dp"
android:layout_marginBottom="5dp"
app:cardElevation="8dp"
app:cardCornerRadius="15dp"
android:layout_columnWeight="1">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/wild_animals"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Wild Animals"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:id="@+id/birds"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_row="4"
android:layout_column="0"
android:layout_gravity="fill"
android:layout_rowWeight="1"
android:layout_marginLeft="15dp"
android:layout_marginRight="15dp"
android:layout_marginTop="5dp"
android:layout_marginBottom="5dp"
app:cardElevation="8dp"
app:cardCornerRadius="15dp"
android:layout_columnWeight="1">
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
```

```
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/birds"/>
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Birds"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
```

```
android:id="@+id/fruits"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_row="5"
android:layout_column="0"
android:layout_gravity="fill"
android:layout_rowWeight="1"
android:layout_marginLeft="15dp"
android:layout_marginRight="15dp"
android:layout_marginTop="5dp"
android:layout_marginBottom="5dp"
app:cardElevation="8dp"
app:cardCornerRadius="15dp"
android:layout_columnWeight="1">
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
```

```
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/fruits"/>
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Fruits"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```

<androidx.cardview.widget.CardView
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    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="6"
    android:layout_column="0"
    android:layout_gravity="fill"
    android:layout_rowWeight="1"
    android:layout_marginLeft="15dp"
    android:layout_marginRight="15dp"
    android:layout_marginTop="5dp"
    android:layout_marginBottom="5dp"
    app:cardElevation="8dp"
    app:cardCornerRadius="15dp"
    android:layout_columnWeight="1">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:backgroundTintMode="src_in"
        android:gravity="center"
        android:layout_gravity="center_vertical|center_horizontal">

        <ImageView
            android:layout_width="match_parent"
            android:layout_height="175dp"
            android:background="@raw/vegetables"/>

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Vegetables"
            android:gravity="center"
            android:textColor="#FFFFFF"
            android:background="#6A6A6A"
            android:textSize="45sp"
            android:textStyle="bold"/>

    </LinearLayout>

</androidx.cardview.widget.CardView>

```

```

<androidx.cardview.widget.CardView
    android:id="@+id/vehicles"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="7"
    android:layout_column="0"
    android:layout_gravity="fill"
    android:layout_rowWeight="1"
    android:layout_marginLeft="15dp"
    android:layout_marginRight="15dp"
    android:layout_marginTop="5dp"
    android:layout_marginBottom="5dp"
    app:cardElevation="8dp"
    app:cardCornerRadius="15dp"
    android:layout_columnWeight="1">

<LinearLayout
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    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">

<ImageView
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/vehicles"/>

<TextView
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    android:layout_height="wrap_content"
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    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>

</LinearLayout>

```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
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    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="8"
    android:layout_column="0"
    android:layout_gravity="fill"
    android:layout_rowWeight="1"
    android:layout_marginLeft="15dp"
    android:layout_marginRight="15dp"
    android:layout_marginTop="5dp"
    android:layout_marginBottom="5dp"
    app:cardElevation="8dp"
    app:cardCornerRadius="15dp"
    android:layout_columnWeight="1">
```

```
<LinearLayout
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    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
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    android:layout_height="175dp"
    android:background="@raw/rhymes"/>
```

```
<TextView
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    android:layout_height="wrap_content"
    android:text="Rhymes"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView  
    android:id="@+id/colours"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_row="9"  
    android:layout_column="0"  
    android:layout_gravity="fill"  
    android:layout_rowWeight="1"  
    android:layout_marginLeft="15dp"  
    android:layout_marginRight="15dp"  
    android:layout_marginTop="5dp"  
    android:layout_marginBottom="5dp"  
    app:cardElevation="8dp"  
    app:cardCornerRadius="15dp"  
    android:layout_columnWeight="1">
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="vertical"  
    android:backgroundTintMode="src_in"  
    android:gravity="center"  
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView  
    android:layout_width="match_parent"  
    android:layout_height="175dp"  
    android:background="@raw/colours"/>
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Colours"  
    android:gravity="center"  
    android:textColor="#FFFFFF"  
    android:background="#6A6A6A"  
    android:textSize="45sp"  
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
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    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="10"
    android:layout_column="0"
    android:layout_gravity="fill"
    android:layout_rowWeight="1"
    android:layout_marginLeft="15dp"
    android:layout_marginRight="15dp"
    android:layout_marginTop="5dp"
    android:layout_marginBottom="5dp"
    app:cardElevation="8dp"
    app:cardCornerRadius="15dp"
    android:layout_columnWeight="1">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:backgroundTintMode="src_in"
    android:gravity="center"
    android:layout_gravity="center_vertical|center_horizontal">
```

```
<ImageView
    android:layout_width="match_parent"
    android:layout_height="175dp"
    android:background="@raw/activity_image"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Activities"
    android:gravity="center"
    android:textColor="#FFFFFF"
    android:background="#6A6A6A"
    android:textSize="45sp"
    android:textStyle="bold"/>
```



```

</LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/fun_learning"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="11"
    android:layout_column="0"
    android:layout_gravity="fill"
    android:layout_rowWeight="1"
    android:layout_marginLeft="15dp"
    android:layout_marginRight="15dp"
    android:layout_marginTop="5dp"
    android:layout_marginBottom="15dp"
    app:cardElevation="8dp"
    app:cardCornerRadius="15dp"
    android:layout_columnWeight="1">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:backgroundTintMode="src_in"
        android:gravity="center"
        android:layout_gravity="center_vertical|center_horizontal">

        <ImageView
            android:layout_width="match_parent"
            android:layout_height="175dp"
            android:background="@raw/funlearn_image"/>

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Tricky,Fun,Craze"
            android:gravity="center"
            android:textColor="#FFFFFF"
            android:background="#6A6A6A"
            android:textSize="35sp"

```

```

        android:textStyle="bold"/>

    </LinearLayout>

</androidx.cardview.widget.CardView>

</GridLayout>

</ScrollView>

</RelativeLayout>

```

MainActivity.java

```

package com.example.kidslearningapp;

import androidx.appcompat.app.AppCompatActivity;
import androidx.cardview.widget.CardView;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class MainActivity extends AppCompatActivity {

    CardView
    alphabets,numbers,d_animals,w_animals,birds,fruits,vegetables,vehicles,rhymes,colours,test,fun_learning;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        alphabets = findViewById(R.id.alphabets);
        numbers = findViewById(R.id.numbers);
        d_animals = findViewById(R.id.d_animals);
        w_animals = findViewById(R.id.w_animals);
        birds = findViewById(R.id.birds);
        fruits = findViewById(R.id.fruits);
        vegetables = findViewById(R.id.vegetables);
        vehicles = findViewById(R.id.vehicles);
        rhymes = findViewById(R.id.rhymes);
        colours = findViewById(R.id.colours);
    }
}

```

```

test = findViewById(R.id.test);
fun_learning = findViewById(R.id.fun_learning);

alphabets.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Alphabets.class);
        startActivity(intent);
    }
});

numbers.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Numbers.class);
        startActivity(intent);
    }
});

d_animals.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Domestic_Animals.class);
        startActivity(intent);
    }
});

w_animals.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Wild_Animals.class);
        startActivity(intent);
    }
});

birds.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Birds.class);
        startActivity(intent);
    }
}

```

```

});

fruits.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Fruits.class);
        startActivity(intent);
    }
});

vegetables.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Vegetables.class);
        startActivity(intent);
    }
});

vehicles.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Vehicles.class);
        startActivity(intent);
    }
});

rhymes.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Rhymes.class);
        startActivity(intent);
    }
});

colours.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Colours.class);
        startActivity(intent);
    }
});

```

```

test.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Test.class);
        startActivity(intent);
    }
});

fun_learning.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,Fun.class);
        startActivity(intent);
    }
});

}
}

```

AndroidManifest.xml

```

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.KidsLearningApp">
        <activity
            android:name=".Anim5"
            android:exported="false" />
        <activity
            android:name=".Anim4"
            android:exported="false" />
        <activity
            android:name=".Anim3"
            android:exported="false" />
        <activity
            android:name=".Anim2"

```

```
        android:exported="false" />
<activity
    android:name=".Anim1"
    android:exported="false" />
<activity
    android:name=".Gif"
    android:exported="false" />
<activity
    android:name=".Fun"
    android:exported="false" />
<activity
    android:name=".Test"
    android:exported="false" />
<activity
    android:name=".Colours"
    android:exported="false" />
<activity
    android:name=".Rhymes"
    android:exported="false" />
<activity
    android:name=".Wild_Animals"
    android:exported="false" />
<activity
    android:name=".Vehicles"
    android:exported="false" />
<activity
    android:name=".Vegetables"
    android:exported="false" />
<activity
    android:name=".Numbers"
    android:exported="false" />
<activity
    android:name=".Fruits"
    android:exported="false" />
<activity
    android:name=".Domestic_Animals"
    android:exported="false" />
<activity
    android:name=".Birds"
    android:exported="false" />
<activity
    android:name=".Alphabets"
```

```
        android:exported="false" />
    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />
            <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
    </activity>
</application>

</manifest>
```

5 PROJECT TESTING

5.1 UNIT TESTING

Unit testing focuses first on modules, independently of one another to locate error. This enables the tester in coding and logic that contained within module alone. Those resulting from integration between modules are initially avoided in this testing. Individual programs were run and sample data was fed so to check whether the desired output was achieved or not.

5.2 SYSTEM TESTING

Tab 5.1 TESTING

Test case ID	Test Case Description	Steps	Test data Input	Expected Result	Actual Result	Status
1	Launch Application	Open App	–	Application should Launch Successfully	Application Launched Successfully	Pass
2	User must interact with related activity when user clicked on CardView.	1] Open App 2] Click on alphabets	–	User should interact with related activity when user clicked on CardView.	User interacted with related activity when user clicked on CardView.	Pass
3	User must hear sounds related to clicked all types of control	1] Open App 2] Click on any CardView 3] Click on any control	–	User should hear sounds related to clicked all types of control	User heard sounds related to clicked all types of control	Pass
4	User must view and hear rhymes when user clicked on rhymes	1] Open App 2] Click on Rhymes CardView 3] Click on Rhymes	–	User should view and hear rhymes when user clicked on rhymes	User viewed and heard rhymes when user clicked on rhymes	Pass
5	Application must tell whether the answer is correct or not	1] Open App 2] Click on Activities CardView 3] Click on any Control	–	Application should tell whether the answer is correct or not	Application told successfully whether the answer is correct or not	Pass
6	User must able to see GIF's when user clicked on gif Button	1] Open App 2] Click on Fun, Craze CardView 3] Click on GIF control 4] Click on any button	–	User should able to see GIF's when user clicked on gif Button	User saw GIF's successfully when user clicked on gif Button	Pass
7	User must able to see Animation's when user clicked on options Button	1] Open App 2] Click on Fun, Craze CardView 3] Click on any activity control 4] Click on any option	–	User should able to see Animation's when user clicked on options Button	User saw Animation's successfully when user clicked on options Button	Pass

6 CONCLUSIONS

We have successfully completed the Project titled “Kids Learning App” under the Guidance of Mrs. Trigule D.J.

7 BIBLIOGRAPHY

- <https://mixkit.co/free-sound-effects/cat/>
- <https://mobcup.net/browse/ringtones/mp3/0/downloads/cat-sound>
- https://www.youtube.com/results?search_query=a+for+apple
- https://www.youtube.com/results?search_query=popular+rhymes