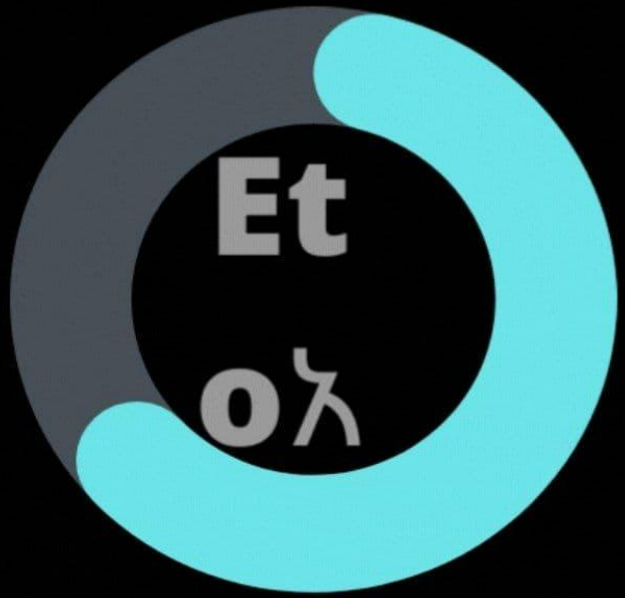
ENGLISH TO AMHARIC DICTIONARY



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SPLASH SCREEN:

The splash screen is an introduction page that is displayed as a program or computer is loading or booting.

- We used extension markup language and the java class to create the splash screen structure.
- The xml layout file contains image view constrained at the center .

In the handler class we used postDelayed() method to delay the time of the splash screen.

We used intent object to make our next activity the main activity .

We gave 3500ms for the splash to stay on the screen.

- This is what the splash screen looks like

DATABASE HELPER

- What is a database helper? A helper class to manage database creation and version management..
- We used SQLite data base helper to make data base connectivity.
- we used SQLITE as a parent class .
- We implemented different methods like: create database , database helper , check database copy database ,open database.

We created a database path as a blank sheet in order to

Copy the database we have from the asset folder

Since the application cannot get information about the environment

On its own we used context.

Then we check for the existence of the database, if it exists we leave it ,if it doesn’t exist we create it .

Since database connection needs error handling try catch statements are used.

We used logcat methods to get information in event logs

SEARCH VIEW ADAPTER

- Android, Adapter is **a bridge between UI component and data source that helps us to fill data in UI component**.

we extended RecyclerView.Adapter<> which is an arraylist class

- onBindViewHolder() : RecyclerView calls this method to associate a ViewHolder with data. The method **fetches the appropriate data** and uses the data to fill in the view holder's layout.
- On create view holder Initially you will get new unused view holders and you have to fill them with data you want to display.
- This adapter class has a constructor which takes as definition list context a parameter
- We used Inflator which converts an XML layout file into corresponding ViewGroups and Widgets

SEARCH LIST VIEW HOLDER

- ViewHolder is a design pattern which can be applied when using a custom adapter.
- Our view holder class extends The class RecyclerView.ViewHolder class and itemview was passed to the super()
- Getters methods are used also.

MAIN ACTIVITY

This is the activity where we create databasehelper object first we populate our recycler view with all the lists(arraylist is used) and a query is passed to the database to use search functionality

Since we our table has three columns we controlled our cursor to move from 0 to 2

On the ontextchanged method We tried to prevent Sqlite query injections using string [] args

For the search textwatchers were used

We used intent to go to landing page when back is pressed (using onBackPressed method)

DEFINITION.java

This class holds the definition of a single word and extends parceble class (i.e

parceble is the Android implementation of the Java Serializable. It assumes a certain structure and way of processing it. This way a parceble can be processed relatively fast, compared to the standard Java serialization.

DEFINITION ACTIVITY

We are using this activity to show the definition of a word

We passed the id of our layout definition activity to setContentView method and set the text views with the definitions

LANDING ACT AND ABOUTDEVS

The landing activity is an activity the is performed after splashscreen we used buttons to direct us to the next activities

When back button is clicked alert dialoge box will appear

The aboutdevs activity holds our name as an information

AndroidManifest

Our activities are registered here

Unregistered activity causes crash

Values and drawables

values is folder which holds xml values of strings colors themes

values is folder which holds xml for images vectors

Imported classes

We have Imported different classes for different purposes from those

AppCompatActivity,button,View are commenly used in our application

Any Questions?