Mobile Application Development Laboratory
Lab 9

Drag, Drop and Notifications

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Aim:

To make an android application that implements a simple colour game using Drag, Drop and Notifications.

Description of App:

Design an Android application using Android Studio with the following specifications:

1. Colour matching game - Have 6 different color boxes and 6 textviews with the name of the colours. The user can drag the text and place it on the boxes. Slightly dim the colour of the box, when the text is dragged inside the box. Have a button, upon clicking check whether the colour matches with the text. Have menu items for exiting the game, and refreshing the game.

2. Upon matching (player wins or loses), display the notification and restart the game. Upon clicking on the notification, redirect to a page with a score card which displays the previous 3 results of the user.

Device Specifications:

Model: Poco F1
Android Version: 9 (API Level 28)
Resolution: 2160 x 1080 pixels

Technical Concepts Learnt:

- To create and inflate Menus.
- To add Drag and Drop feature to views elements
- To create notifications
- To customise actions on a notification click.
- To change the appearance of views based on drag events.

Source Code:

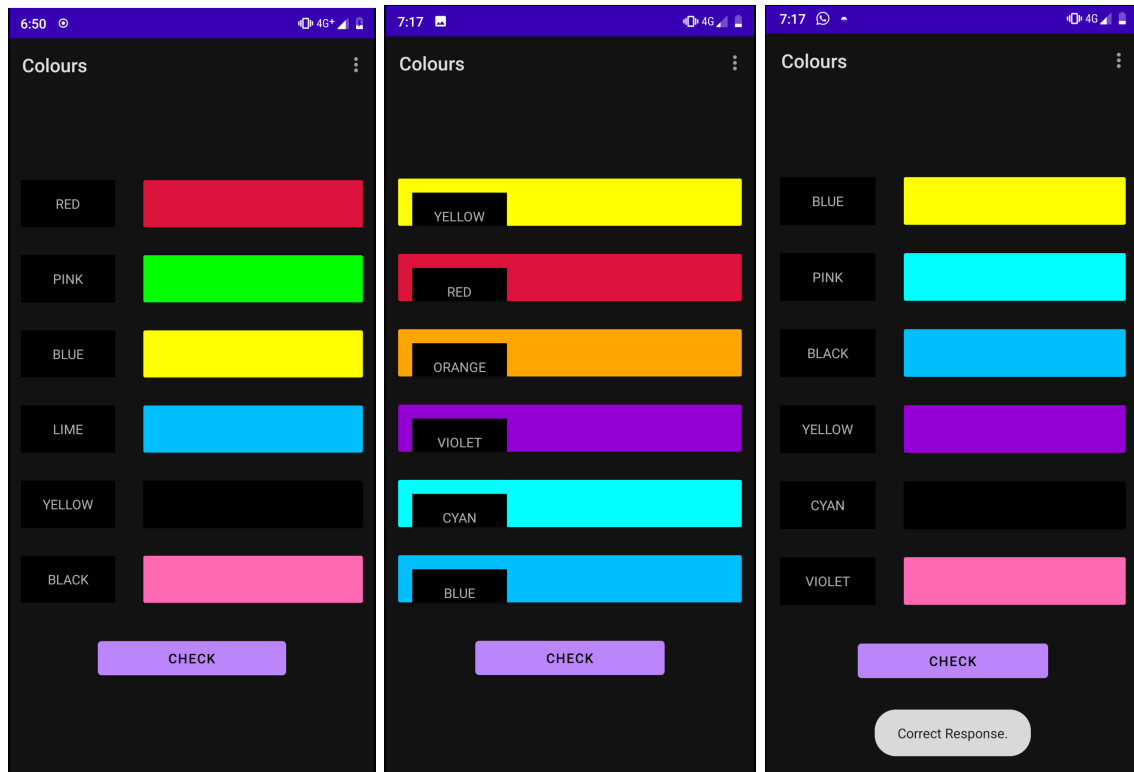https://drive.google.com/file/d/1MrHZl63hzSOIMvt_vRX-THS3JRiWdr89/view?usp=sharing

Video Demo:

https://drive.google.com/file/d/1buBJLs0WczF-Fla_Exh2ndIuy7R8hEh3/view?usp=sharing

Apk:

https://drive.google.com/file/d/1gc8n34_fxPsLpVnh93xwUFj5BE3pfD5R/view?usp=sharing
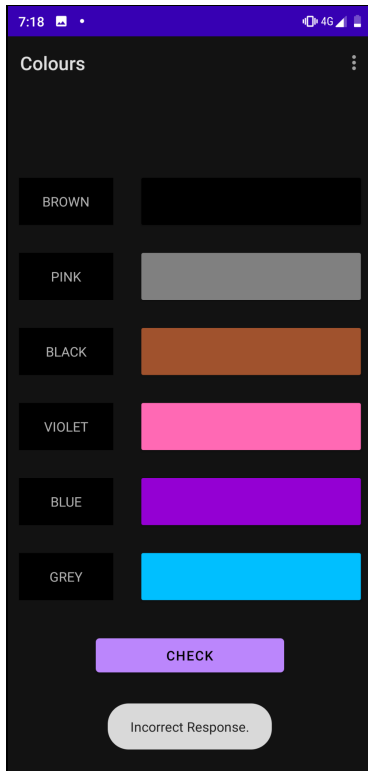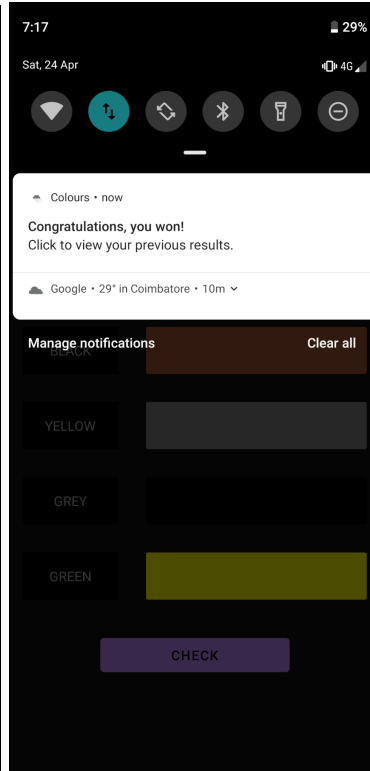
Screenshots:

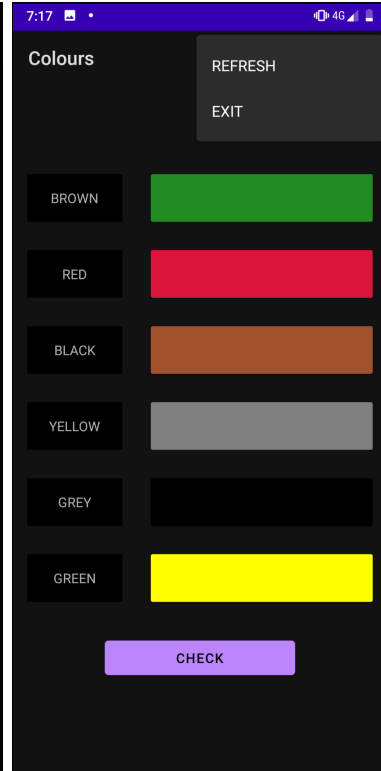(i) Initial   (ii) Colors Matched   (iii) Correct Response
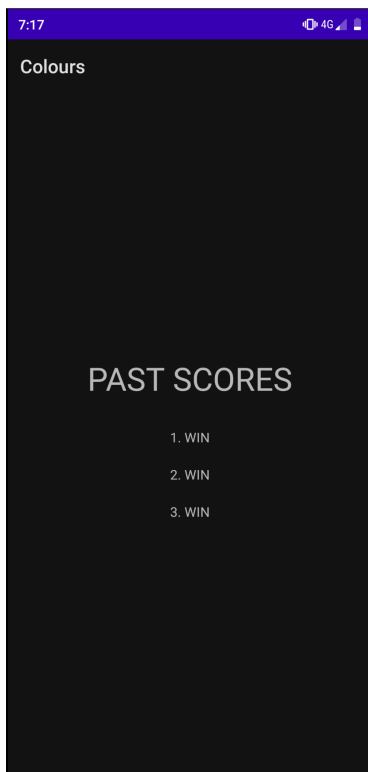
(iv) Incorrect Response

(v) Notification

(iii) Menu

(vii) Past Scores

Outcomes:

An android application was developed that implements a simple colour game using Drag, Drop and Notifications. Various concepts in Android App Development were explored including:

- Creating and inflating Menus.
- Adding Drag and Drop feature to elements
- Creating notifications
- Customizing actions on a notification click.
- Changing the appearance of views based on drag events.