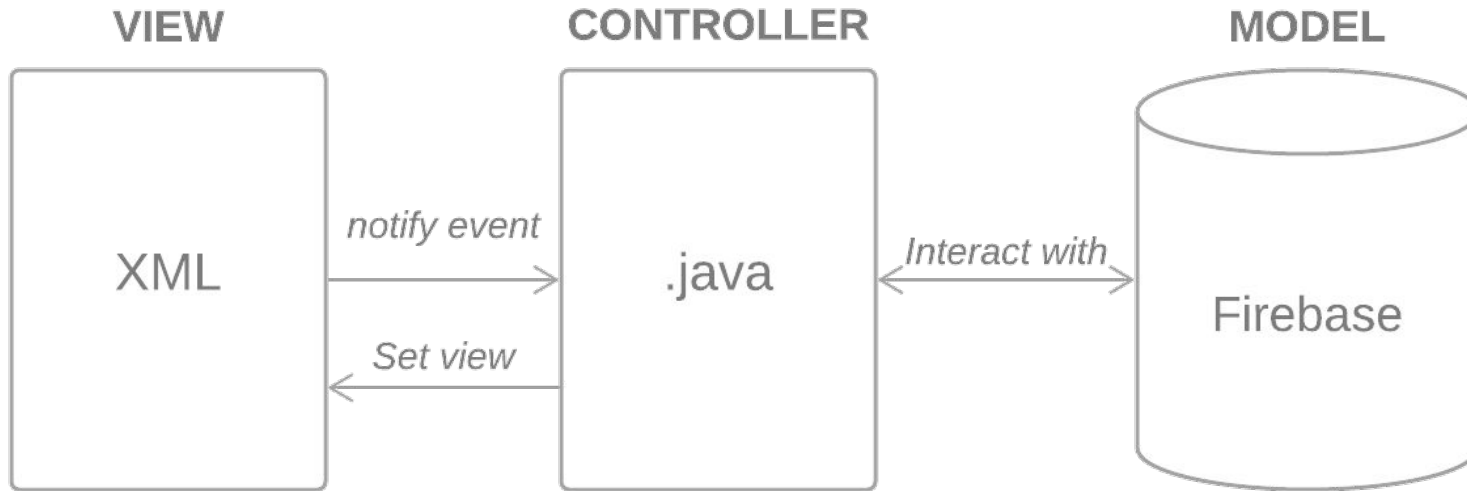


# High level architecture





# Database architecture

- Firebase - Document based NoSQL DB
- Firebase Authentication - Email - Password
- Collections
  - Toys
  - Trades
  - Users
  - Toy-Frauds

🏠 > trades > CmUzoY0CmaP...

toytrader-18f32

+ Start collection

toyFrauds

toys

trades >

users

trades

+ Add document

CmUzoY0CmaPf6hW3Ifyc >

Q1jtMGZdTxxWr5gGxeAE

vnYxTJW3fBYpRGoJUxNB

CmUzoY0CmaPf6hW3Ifyc

+ Start collection

+ Add field

cost: 90

end\_date: "Wed Nov 18 18:57:28 PST 2020"

ownerid: "DoJ30NB8KeOLEoanMxAzSOhQ1X83"

start\_date: "Wed Nov 18 18:57:23 PST 2020"

toyid: "S6Eeydb3mqPPc353og4P"

toyname: "Toy r us"

type\_of\_sale: "Buy"

userid: "DoywtU1ijHXCLcn83QoXr0TruKb2"



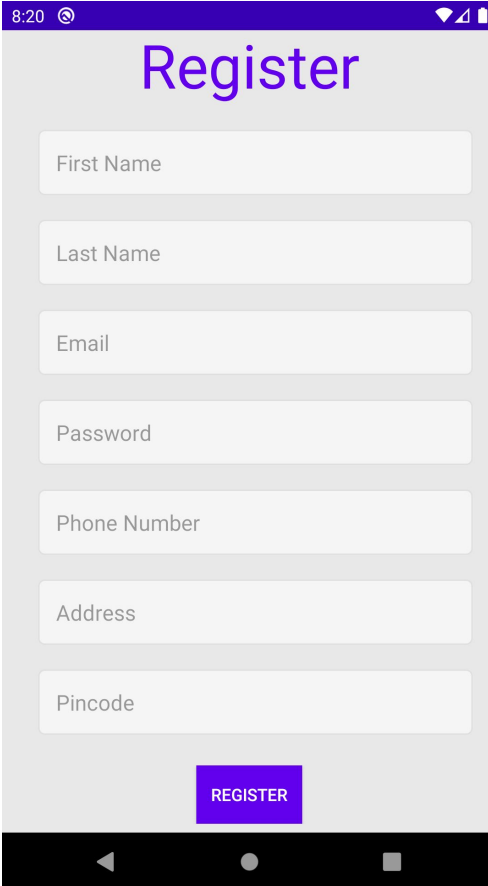
# Functional Requirements

- User can Register
- User can Login
- User can change personal data
- User can view Categories
- User can view Toys
- User can Buy/Rent toys
- User can report Frauds
- User can return a rented toy
- Admin can view users
- Admin can view toys and issues with them



# Register

- Enter All user details
- Details uploaded to Firebase
- User registered using Firebase Authentication



8:20

## Register

First Name

Last Name

Email

Password

Phone Number

Address

Pincode

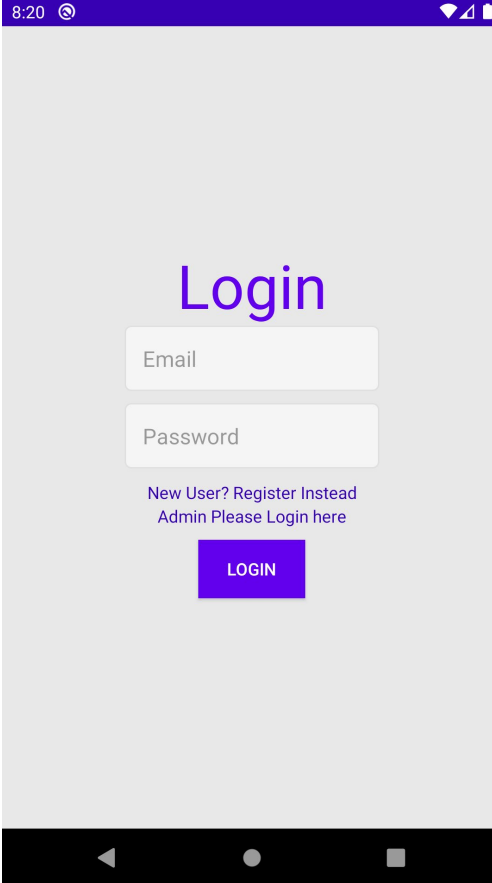
REGISTER

The image shows a mobile application interface for a registration form. At the top, there is a status bar with the time 8:20 and signal icons. Below this is a purple header with the word 'Register' in white. The form consists of seven white input fields with rounded corners, each containing a placeholder label: 'First Name', 'Last Name', 'Email', 'Password', 'Phone Number', 'Address', and 'Pincode'. At the bottom of the form is a purple button with the word 'REGISTER' in white. The entire form is set against a light gray background. At the very bottom of the screen is a black navigation bar with three white icons: a back arrow, a circle, and a square.



# Login

- Enter email and password
- User Authenticated with Firebase Auth
- Securely log into the Application



8:20

8:20

## Login

Email

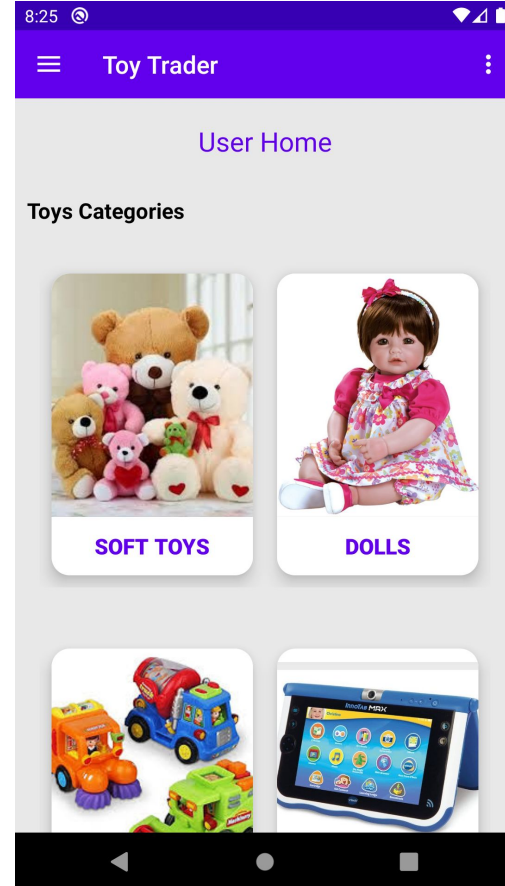
Password

New User? Register Instead  
Admin Please Login here

LOGIN

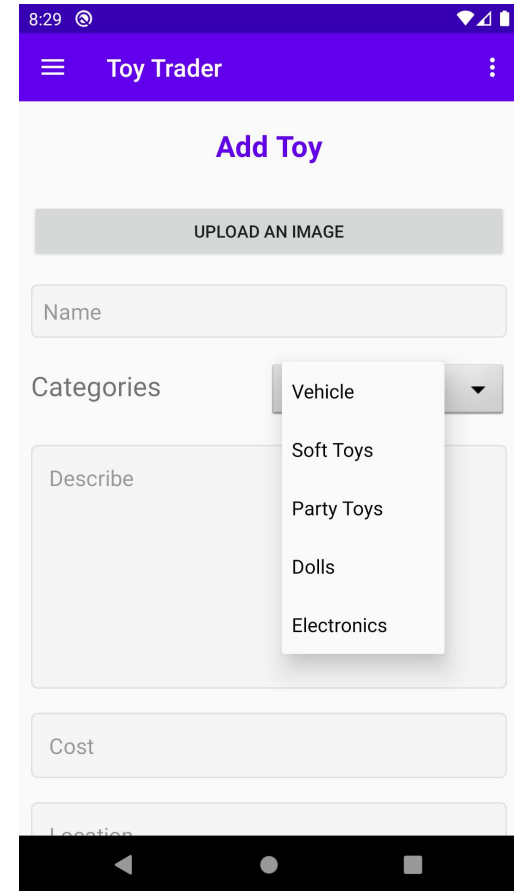
# Home Screen

- Home screen for the application
- Select from multiple categories



# Upload toy

- User can opt to upload their own toys
- Add a few details with the image and you're good to go



The screenshot shows the 'Add Toy' screen of the 'Toy Trader' app. The app's header is purple with a hamburger menu icon on the left, the text 'Toy Trader' in the center, and a vertical ellipsis icon on the right. The status bar at the top shows the time as 8:29 and various system icons. The main content area is white and contains the following elements: a purple 'Add Toy' title, a grey button labeled 'UPLOAD AN IMAGE', a text input field for 'Name', a 'Categories' dropdown menu with a list of options (Vehicle, Soft Toys, Party Toys, Dolls, Electronics) displayed, a large text area for 'Describe', a text input field for 'Cost', and a partially visible text input field for 'Location'. The bottom of the screen shows the Android navigation bar.

8:29

Toy Trader

Add Toy

UPLOAD AN IMAGE

Name

Categories

- Vehicle
- Soft Toys
- Party Toys
- Dolls
- Electronics

Describe

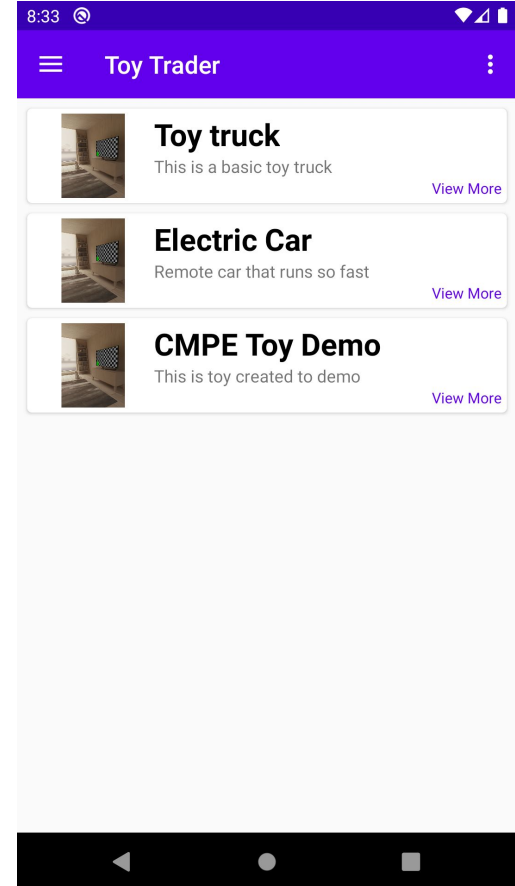
Cost

Location



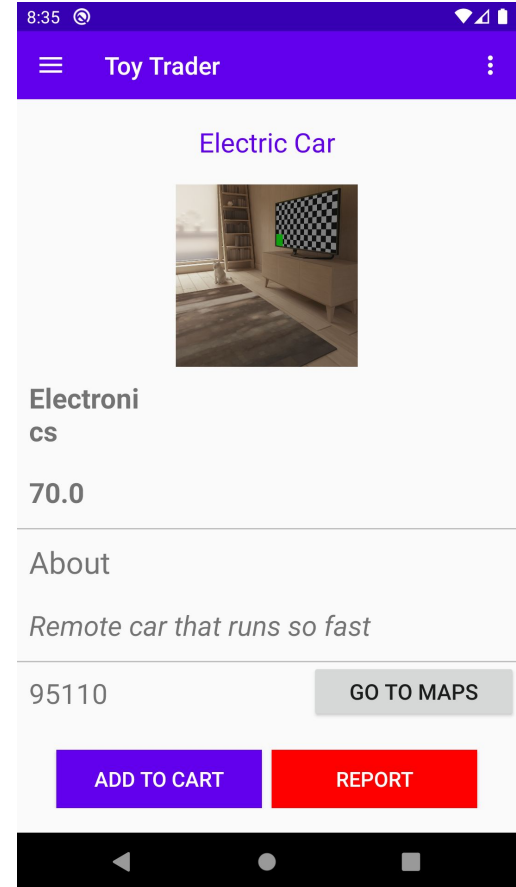
# Categories

- User can select any category
- Toys related to that category will be shown here
- Images are downloaded from firebase storage



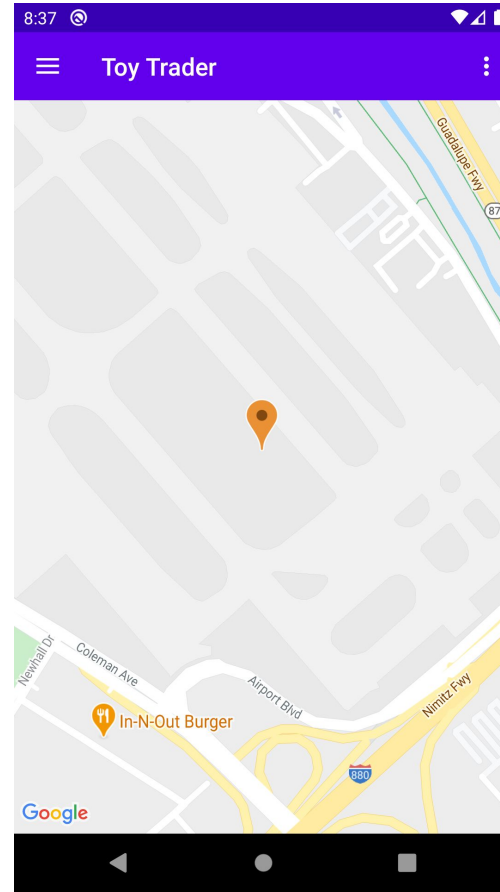
# Toy Description

- Selecting any toy opens up detail view
- All the details related to that Toy are shown here
- User can
  - Add the toy to cart
  - Report the toy
  - View Toy location on Map



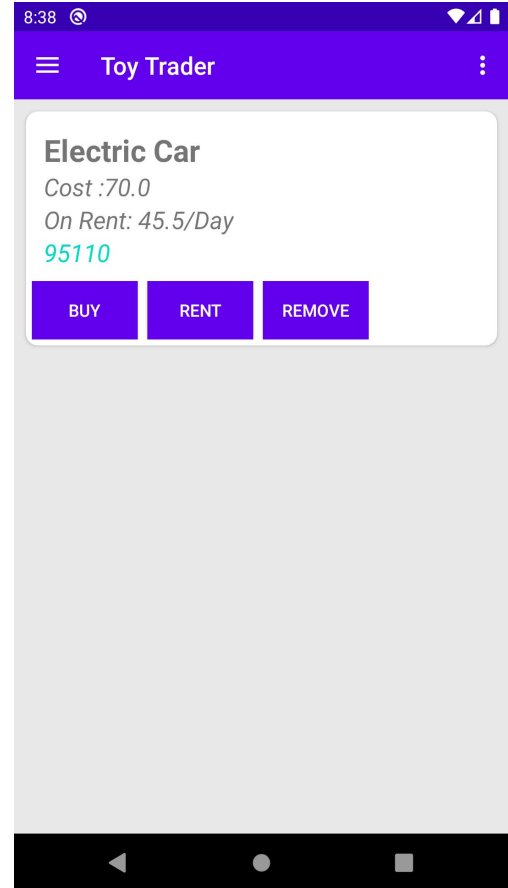
# Map

- Map view to show the location on the map



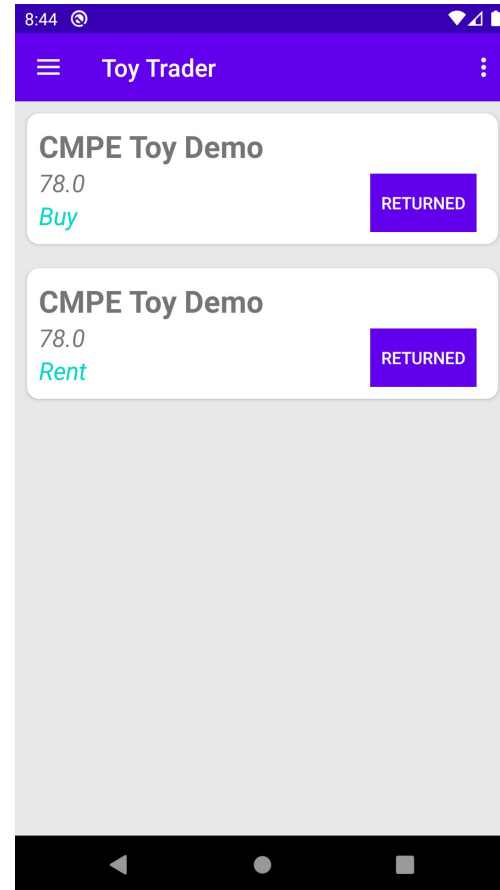
# Cart

- After the Item is added to cart user can
  - Buy the item
  - Rent the item
  - Remove the item



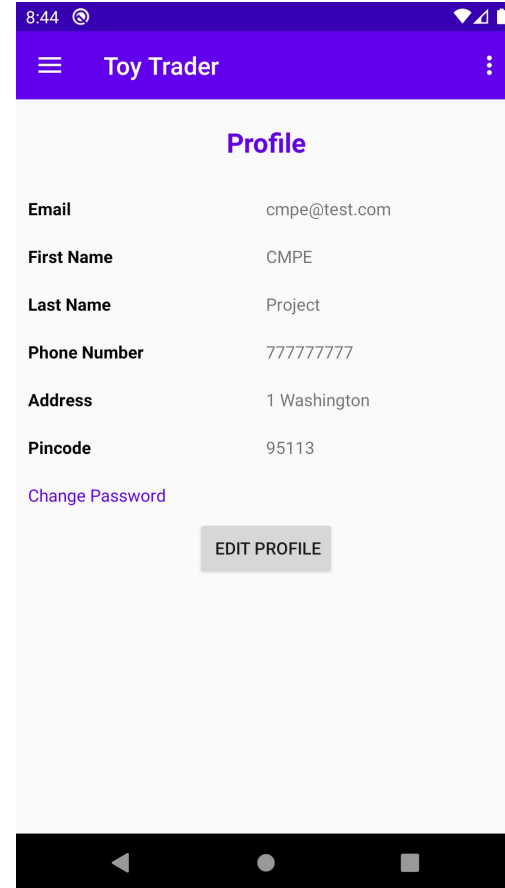
# Orders

- Orders page to provide user history
- User can view all the items that he has rented or bought



# Profile

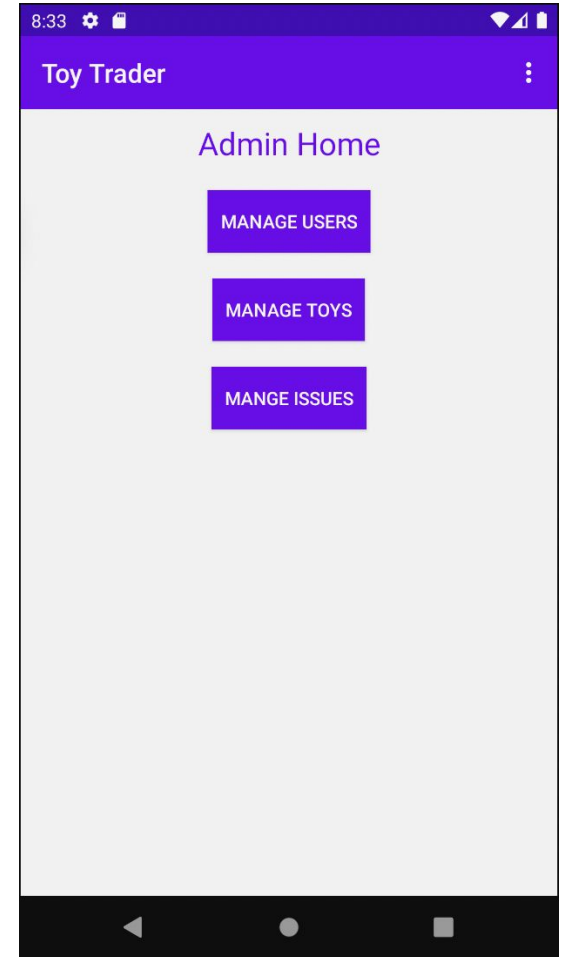
- Profile page for the logged in user
- View all user details
- Can edit details
- Can change Password





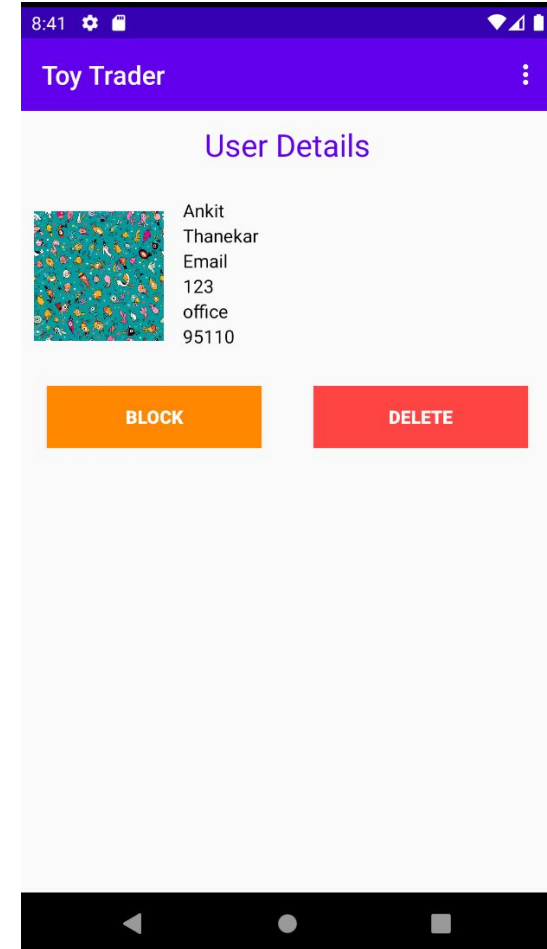
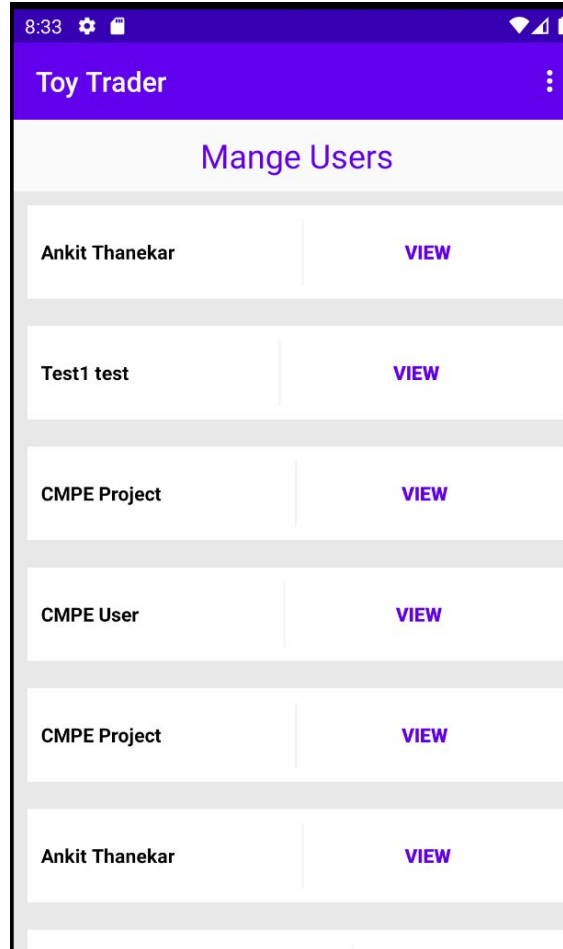
# Admin

- Admin portal is used to manage
  - Toys
  - Users
  - Issues reported by Users



# Admin - Manage Users

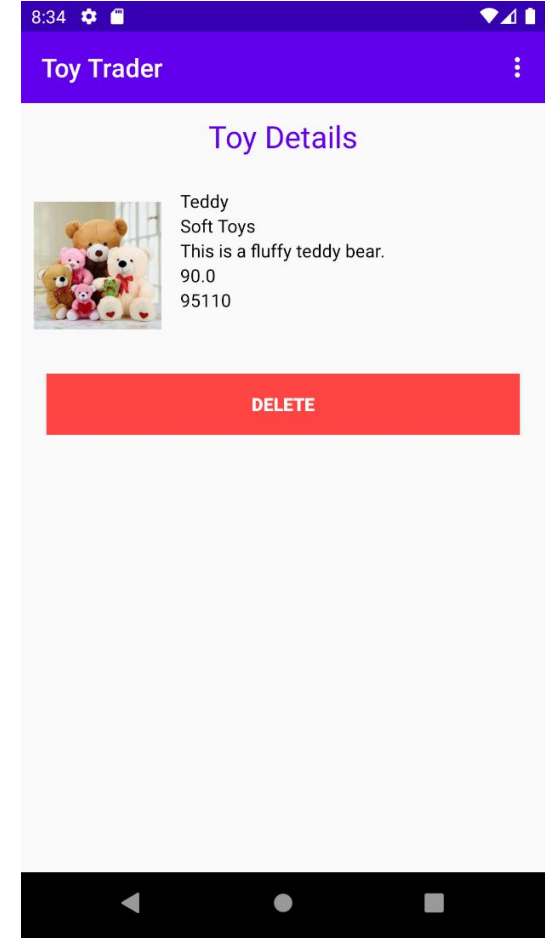
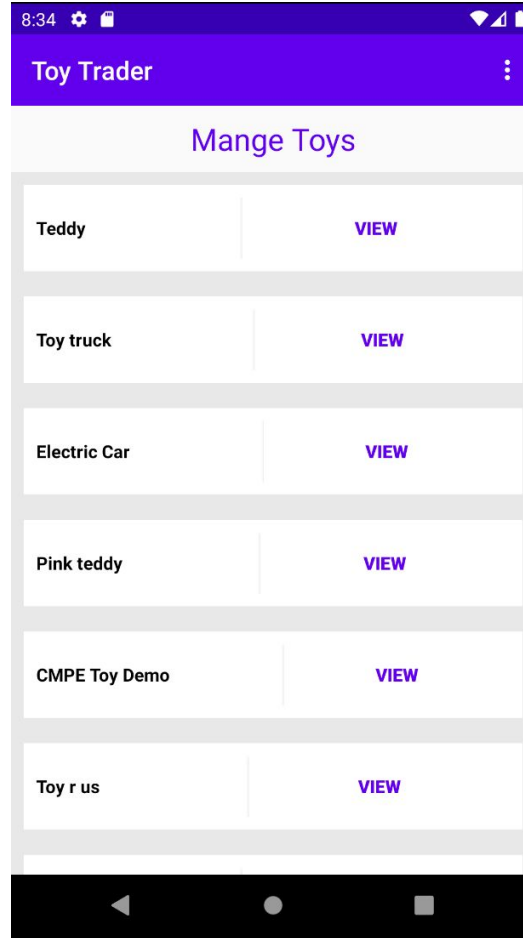
- Admin Can Block the user
- Admin can Delete the user





# Admin - Manage Toys

- Admin can view list of toys
- Admin can delete the toy



# Admin - Manage Issues

- Admin can view the reported issues

