

Contribution report & Continuous Integration TechshopJU

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1 Overview

TechshopJU is an e-commerce application inspired from TechshopBD <http://www.techshopbd.com/>. The purpose of this application is to provide all electronic component for developmental purpose. We create a mobile version of this app in android framework. The features of this product are

1. Sign in
2. Sign up
3. CRUD product (Admin)
4. Read product (User)
5. Product Details
6. Order + Payment
7. Category search
8. Shopping Cart
9. Wish list
10. Product availability Remainder
11. Order PCB

There will be two sprint running for this project. Sprint-1 backlog will have 1, 2, 3, 4, 5 ,6 features. Sprint-1 Deadline: 9-Jan-2022.

2 My Contribution

In sprint-1 I am working with Admin CRUD features. This features will only be accessible by Admin. Admin can create a product, read detail list of product, Update properties of product, and delete the product. If the authentication is admin , (admin@gmail.com), the can access this features.



Figure 1: Add Product View

2.1 Add Product

At the beginning the add product form will be displayed. The view contains 3 edit text, two buttons, an imageView and a progressbar. Admin inputs the product Name, Price, Description in the EditText. Then Admin clicks the Choose Button to select Image from storage. This button activates an Intent with ACTION_GET_CONTENT type that invokes to open storage. After choosing product's image, onActivity method confirms image received and stores the image URI.

After getting all the product information, it will be stored in an object of Product class. Finally the object is uploaded into Firebase cloud storage and real-time database. A progressbar will show the uploading progress. There is a menu at the top-right corner used to view product catalogue.

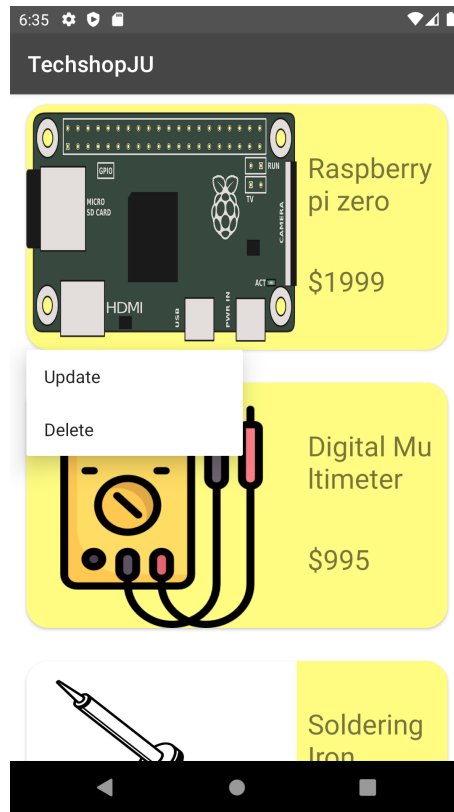


Figure 2: Product Catalogue

2.2 Product Catalogue

After clicking menu item in the add product view, it will redirect to catalogue view. All products that are stored into database are displayed here.

The view contain a recylcar view that show all the products in each of its item. Initially the list of product is fetched from firebase realtime database then stored into a list of product. Then the list is mapped with the recylcarView with recylcar adaptar class. The Recyclar adaptar class use a ViewHolder class to fit each product to a particular view item.

- By clicking a recylcar item it will redirected to Product Detail page which will be performed by other member in this project.
- By long click a recylcar item a popup menu will shown containing 2 menu item. Update and Delete.
- Clicking delete menu_item will remove the product from database then refresh the activty through IRefresh interface.

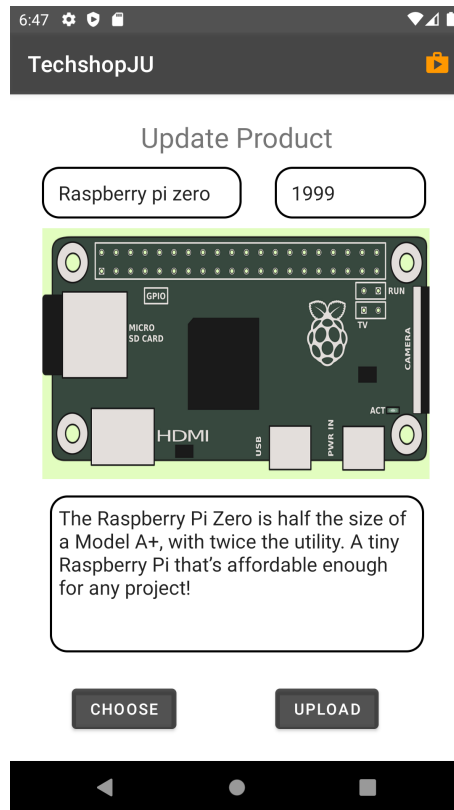


Figure 3: Update Product

- Clicking Update menu.item will Send the selected product data through an intent to UpdateActivity.

2.3 Update Activity

Update Activity hold the same functionality of main activity.

Admin can re-inter updated information of the product, as

- Change name of the product
- Offer a Discount price of product of any occasion.
- Change the image of the product or keep the existing one
- Edit product description

After clicking the Upload button, all the information is stored in Product class and stored in the database in the same id the product was. A progress_bar

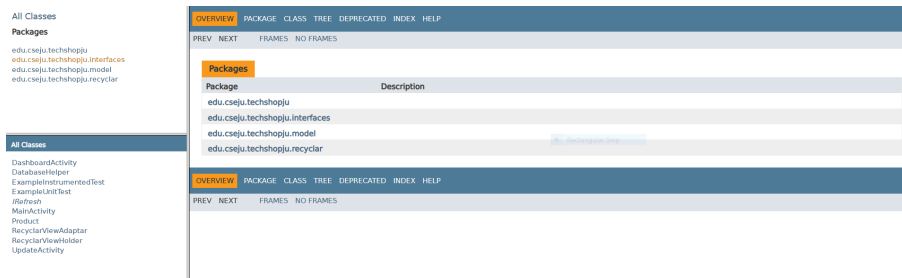


Figure 4: Documentation

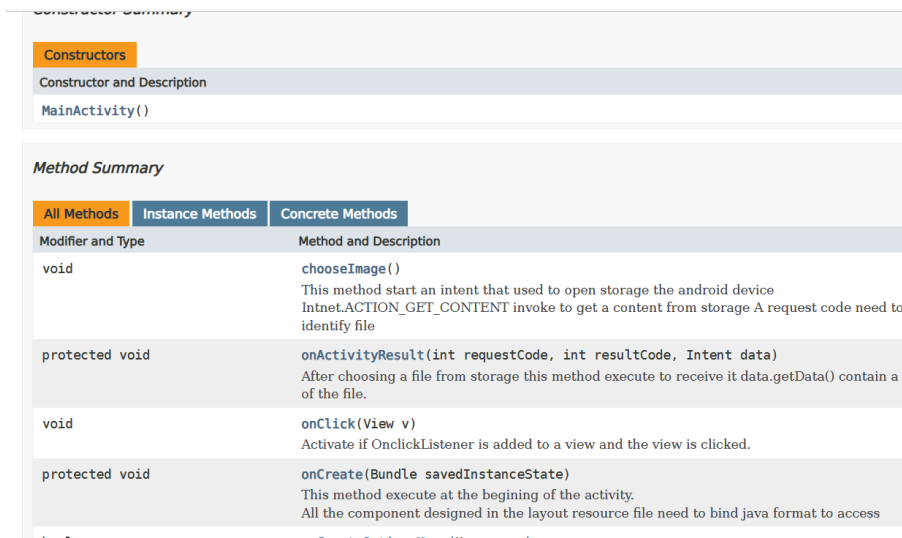


Figure 5: Documentation

show the uploading progress and a toast is shown the result of the operation (success/ failure).

This activity also contain a menu that help user to redirect to product catalogue page.

3 Documentation

This features is properly documented using JavaDoc. Through there were problem generating javaDoc in Android studio. The project was opened with IntelliJ platform the perform documentation. The Documentation file is uploaded in github repository <https://github.com/abdulmukit98/techshopJU/tree/admin>

v - return the view which is clicked

chooseImage

```
public void chooseImage()
```

This method start an intent that used to open storage the android device

Intnet.ACTION_GET_CONTENT invoke to get a content from storage A request code need to attach to un

onActivityResult

```
protected void onActivityResult(int requestCode,
                                int resultCode,
                                @Nullable
                                Intent data)
```

After choosing a file from storage this method execute to receive it data.getData() contain a URI that is tl

Overrides:

onActivityResult in class androidx.fragment.app.FragmentActivity

Parameters:

requestCode - Uniquely identify the file

resultCode - Check if full content received or not

data - hold the content of the file

Figure 6: Documentation

4 Coding Standards

Coding standards of used in this project is listed in following site

<https://github.com/abdulmukit98/techshopJU/wiki/Coding-Standards>