

LKSN 2022

Modul: Mobile (Android)

Software Requirement

IDE : Android Studio

Bahasa Programming : Java or Kotlin

Target Android : SDK API 27



Esemka Restaurant wants to build apps to help their operational. Esemka Restaurant asks you to develop a mobile application (android). Application helps customer to buy through apps. Esemka Restaurant already have Backend API, so you must connect the mobile application with Backend API. All endpoint on Backend API must using authentication except Login endpoint. Backend API using bearer token as authentication. You can access backend API with run the "EsemkaRestaurant.exe", after that you can read the backend API documentation with browser with URL is "<http://localhost:5000/swagger>". The backend API documentation has already grouped by the screen.

Color Palette:

#D8D9CF

#FF8787

#E26868

1. Home

On Home screen have Logo, Table Code Textfield, Submit button, and Login as staff button. When user tap Submit button, the application will validate based on Backend API. If table code is valid, then the application will show Menu Screen. If invalid, then application will show error message.

When user tap on Login as Staff, the application will show the login screen.



Esemka Restaurant

Input Table Code

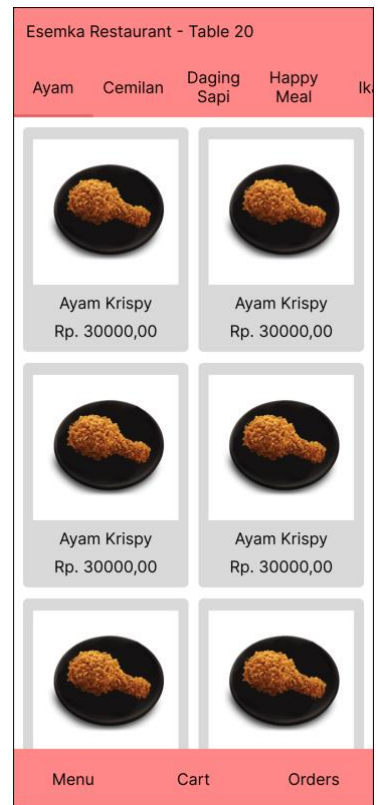
Submit

Login as Staff

2. Menu

On Menu screen, the application will show all menu based by selected tabs. The tabs must be “Ayam”, “Cemilan”, “Daging Sapi”, “Happy Meal”, “Ikan”, “Makanan Penutun”, “Minuman”, “Paket Family”, and “Sarapan Pagi”.

The menu must be show in GridView Layout. Each menu item show image, name, and price. When user taps on item in GridView, the application will show the menu detail screen based by selected Item.



3. Menu Detail

On Menu Detail screen, will show Image, Name, Price, and Description. When the user taps on “-” button, then the quantity will be reduced by 1. When the user taps on “+” button, then the quantity will be added by 1. When the user taps on Add to Cart button, the menu will be added to **SharedPreference**.

When the Home menu tapped, the application will show home screen.

When the Cart menu tapped, the application will show Cart screen.

When the Orders menu tapped, the application will show Orders screen.



4. Cart

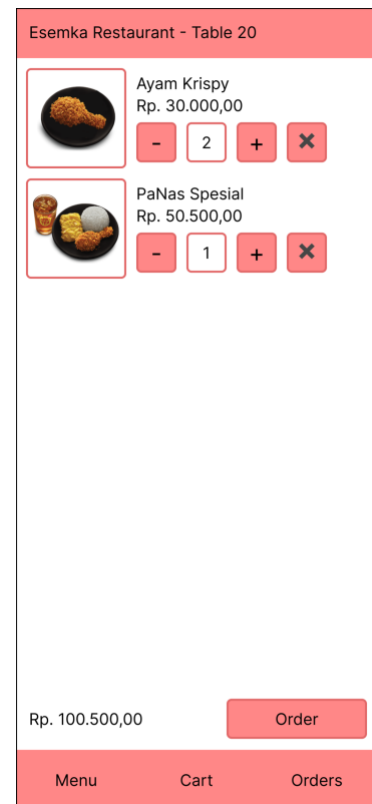
On Cart screen, will show menu Picture, Name, Price, Quantity, Total and Order Button. When the user taps on “-” button, then the quantity will be reduced by 1. When the user taps on “+” button, then the quantity will be added by 1. When the user taps on “x” button, the menu will be removed to **SharedPreference**.

When user tapped on Order button, the application will add all cart to orders and show the orders screen.

When the Home menu tapped, the application will show home screen.

When the Cart menu tapped, the application will show Cart screen.

When the Orders menu tapped, the application will show Orders screen.



5. Orders

On Orders screen, will show the orders (Date, Status) based selected table code.

When the Home menu tapped, the application will show home screen.

When the Cart menu tapped, the application will show Cart screen.

When the Orders menu tapped, the application will show Orders screen.


Esemka Restaurant - Table 20	
Order 1 - 22 Oct 07 15:20:17	
Done	
2 Ayam Krispy	Rp. 60.000,00
1 PaNas Spesial	Rp. 50.500,00
Order 2 - 22 Oct 07 15:25:50	
On Cooking	
1 Ayam Krispy	Rp. 30.000,00
1 PaNas Spesial	Rp. 50.500,00
Rp 191.000,00	
Menu	Cart Orders

6. Login

On Login screen have Logo, Email Textfield, Password Textfield, Login button, login as Customer button. When user tap Login button, the application will validate based on Backend API. If Email and Password is valid, then the application will show Home Screen. If invalid, then application will show error message "Email or Password is invalid".

The authentication using Bearer token with token lifetime is 10 minutes. After token expired, the application will request new token.

Email	Password
iclarricoates3@clickbank.net	fTa9al71rEm
rlochran4@hatena.ne.jp	YLhGt2JDH01N
ebruniges5@devhub.com	5lQ233NlzLc
ttolotti6@dropbox.com	QHTXNz
tbrockie7@google.ruu	idBLZ9



Input Email

Input Password

Login

Login as Customer

7. List Table

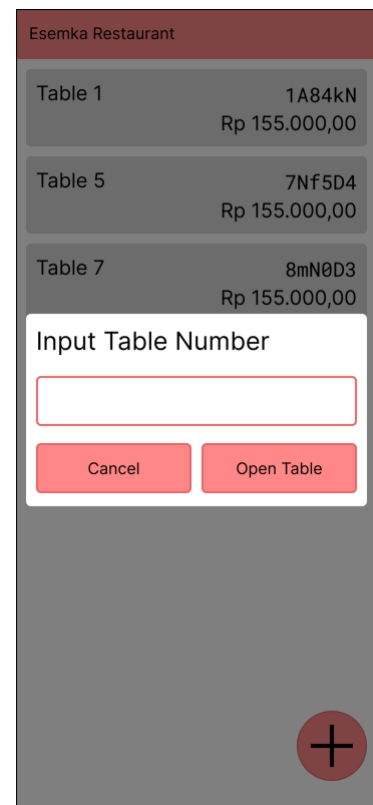
On List Table Screen, will show all list of tables (number, code, and Total Price). When the user taps on add button, then the application will show add table dialog. When the user taps on table ListView, then the application will show the orders (admin) screen.

Esemka Restaurant		
Table 1	1A84kN	Rp 155.000,00
Table 5	7Nf5D4	Rp 155.000,00
Table 7	8mN0D3	Rp 155.000,00
Table 20	9H1U51	Rp 155.000,00

8. Add Table Dialog

On Add Table Dialog screen have Label, Number textfield, Cancel button, and Open Table button. When user tap on Cancel Button, the application will close the dialog.

When user tap on Open Table Button, the application will show Table Code. Validate the Table number must between 1 and 50.



9. Orders (Admin)

On Orders (Admin) screen, will show Table number, and Table code and the orders (Date, Status). When the user taps on item of list view, the application will show Change status dialog. When close table button tapped, the update the data and application will show List Table Screen.

Esemka Restaurant	
Table 20	9H1U51
Order 1 - 22 Oct 07 15:20:17	
Done	
2 Ayam Krispy	Rp. 60.000,00
1 PaNas Spesial	Rp. 50.500,00
Order 2 - 22 Oct 07 15:25:50	
On Cooking	
1 Ayam Krispy	Rp. 30.000,00
1 PaNas Spesial	Rp. 50.500,00
Rp 191.000,00	
Close Table	

10. Change Status dialog

On Change Table Dialog screen have Label, Status DropDown, Cancel button, and Open Table button. When user tap on Cancel Button, the application will close the dialog.

When user tap on Submit Button, the application will update the status of order and close the dialog. Validate the status must between Ordered, On Cooking, Cooked, and Done.

Esemka Restaurant

Table 20 9H1U51

Order 1 - 22 Oct 07 15:20:17
Done
2 Ayam Krispy Rp. 60.000,00
1 PaNas Spesial Rp. 50.500,00

Order 2 - 22 Oct 07 15:25:50
On Cooking

Input Status

On Cooking

Cancel Submit

Rp 191.000,00 Close Table