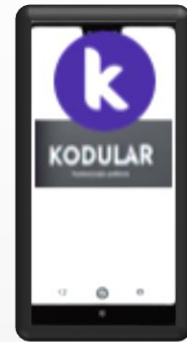# KODULAR CREATOR
FOR BEGINNER

WRITTEN BY:

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KODULAR CREATOR FOR BEGINNER

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Preface

Thanks be to Allah S.WT because with his abundant grace this book was able to be completed within the set time period. This book is an introduction to mobile-based development applications. This book helps non-IT individuals to build simple applications.

Kodular is a user-friendly drag-and-drop mobile app development platform designed for creating Android applications without the need for coding. It provides an intuitive interface where users can design app layouts by simply dragging and dropping various components.

With its visual programming environment, users can create app functionalities by connecting blocks, eliminating the need for writing code manually.

The authors hopes you enjoy learning block programming. We welcome with an open heart any constructive views and comments on this book.

May God bless you.

Table of
Contents

Table of
Contents

About
Kodular

Introduction

Kodular is a popular drag-and-drop mobile app development platform that allows users to create Android applications without needing to write code. It provides a user-friendly interface where developers, even those without extensive programming knowledge, can design and build fully functional apps.

History

Kodular was founded by Arun Saigal, Sander Jochems, and Mika Niinimäki in 2017. It was initially inspired by MIT App Inventor, an educational tool for creating Android applications. The founders aimed to enhance the functionalities and ease of use of App Inventor, leading to the creation of Kodular.

About
Kodular

Features

▶ Drag-and-Drop Interface

Kodular offers an intuitive drag-and-drop interface, allowing users to design app layouts and functionality by simply dragging components onto the screen.

▶ Wide Range of Components

Kodular provides a variety of components, such as buttons, labels, text boxes, sensors, multimedia, and more, which users can utilize to add functionality to their apps.

About
Kodular

▶ Built-in Blocks Editor

Users can define the behavior of their app by using Kodular's blocks editor, which resembles puzzle pieces. It follows a visual programming paradigm, where users connect blocks to create logical sequences and actions.

▶ Extensions Support

Kodular allows developers to create and use extensions, which are additional components or functionalities not included in the default Kodular setup. This feature enables users to extend the capabilities of their apps further.

About
Kodular

▶ Cloud-based Compilation

Kodular boasts an active and supportive community of developers and users. The platform provides forums where users can ask questions, share their projects, and seek assistance from fellow community members and Kodular staff.

▶ Multi-platform Support

While Kodular primarily focuses on Android app development, it also provides features for creating apps compatible with Android Wear OS and Android TV.

About
Kodular

▶ Community and Support

Kodular offers cloud-based compilation, meaning users can compile their apps directly on Kodular's servers without needing to set up complicated development environments on their local machines.

▶ Monetization

Kodular supports various monetization options for apps, including displaying advertisements through AdMob integration, in-app purchases, and premium subscriptions. This allows developers to generate revenue from their apps.

About
Kodular

▶ Education and Learning

Kodular is often used as an educational tool to introduce students and beginners to app development concepts. Its visual interface and simplified programming approach make it accessible to learners of all ages.

▶ Privacy and Security

Kodular emphasizes privacy and security in app development. It provides features to protect users' data and comply with privacy regulations, such as GDPR (General Data Protection Regulation).

About
Kodular

▶ Open Source

While Kodular itself is not entirely open source, it supports the development and integration of open-source extensions and components.

Summary

Overall, Kodular is a versatile platform that democratizes mobile app development by making it accessible to a broader audience, including beginners, educators, and experienced developers alike. Its user-friendly interface, extensive feature set, and supportive community make it a popular choice for creating Android applications without the need for traditional coding skills.

General Step

Preparing The Screen

1   Sign in or register if you are a new user

2   Create the new project and type the project name

3   Write your application name

4   Write your package name

5   Upload the image by clicking the assets menu

8

General Step

Layout

1 User Interface Design

Block

1 This block will make animation when loginButtonShowHide has been clicked

Create Login Screen With Animation

This is a list of component that you will use

Vertical Scroll Arrangement as Container

Space

Image

Label

Text Box

Button

Animation Utilities

Connectivity Utilities

Web

Tiny DB

CREATIVITY
appetite

Create Login Screen With Animation

Before continue into the tutorial, don't forget to prepare:

01
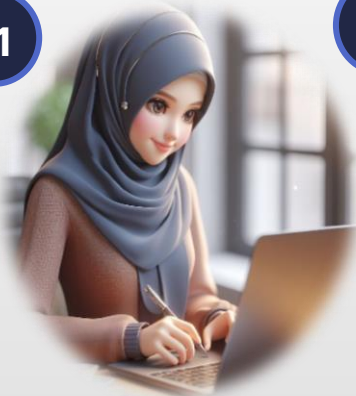
02

03

End of that you must

Preparing The
SCREEN

Preparing The Screen

Open Kodular.io **1**

Convert your ideas into apps with Kodular Creator!

The best online drag-and-drop app creator without coding, and for free!

🚀 GET STARTED   + MORE FEATURES

Create Account **2**

Sign Up
Create your Kodular Account

Enter your name*

Enter your email*

Already have an account?
Sign in instead

Next

Or sign up with

G   O   🐦

Preparing The Screen

Create Project **3**
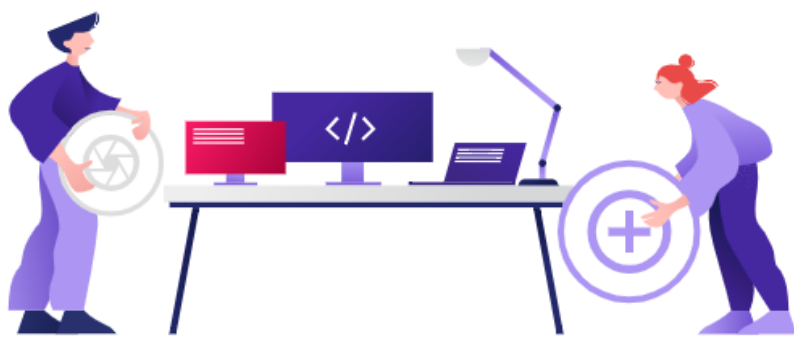
Create project

Project Name **4**

Give Project Name as myFirstKodulor, then click Next.

Create new project

Give your new project a name

myFirstKodulor

Cancel   Next
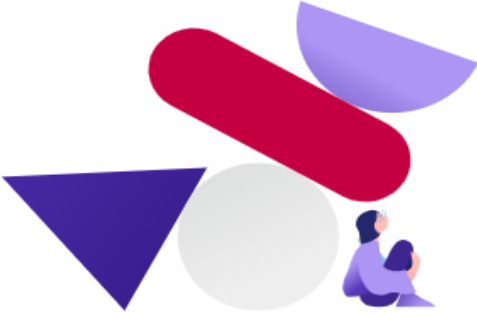
Preparing The Screen

Create Account   5

Give App Name as myFirstKodulor, then click Finish.

Workspace   6

Your workspace appear! Yeay!

15
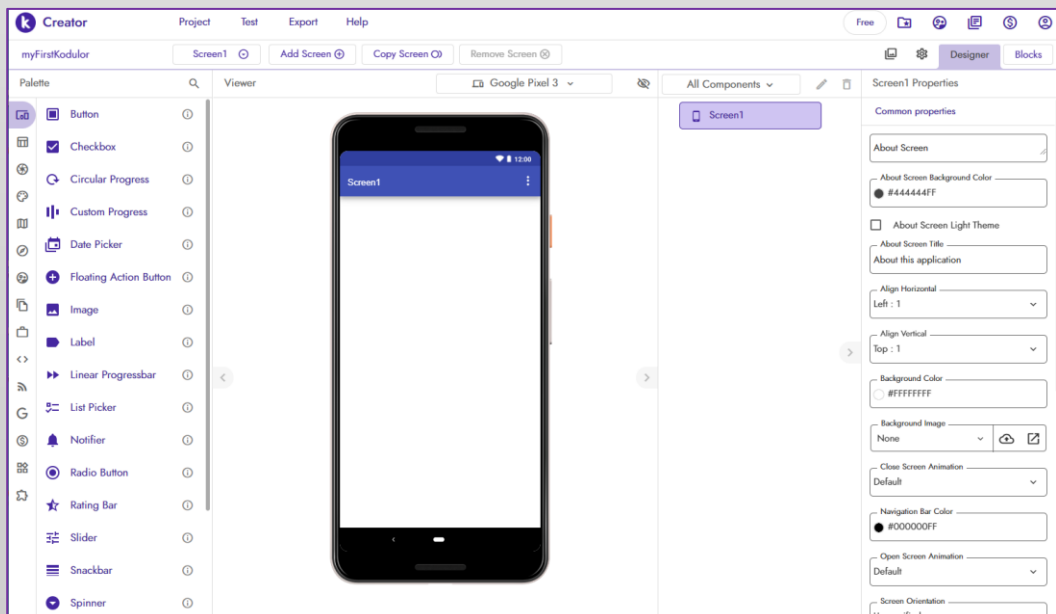
Preparing The Screen

Upload Image **7**   Upload the image to assets

Click here
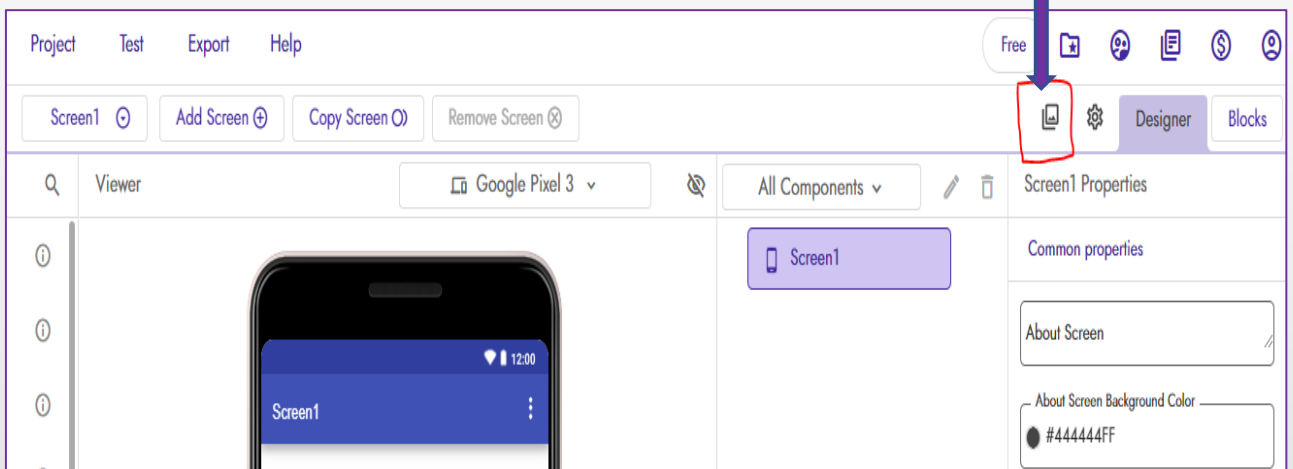
Project Name **8**   8.1 – Click the screen1 find the background image, choose the image.

16
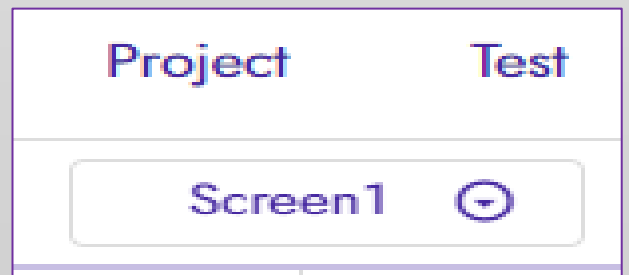
Preparing The Screen

Project Name   8

8.2 – Click the screen1 find the background image, choose the image.

8.3 – Click the screen1 find the background

18

Preparing The
LAYOUT

Preparing The Layout

Remove The Title Bar And Status Bar From Screen

Option Menu **1**

In Screen1 Properties, uncheck the show options menu, show status bar and title visible. This make a full screen application

Screen1 Properties

☐ Scrollable

☐ Show Options Menu

☐ Show Status Bar

Title

Screen1

Title Bar Font Typeface

Default

Title Bar Subtitle

☐ Title Visible

Preparing The Layout

Choose layout palette from the left side, then choose General and drag Vertical Scroll Arrangement component into the screen.

2.1
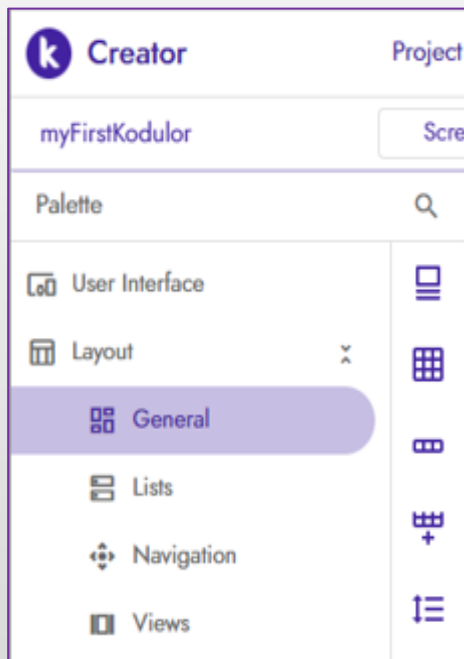
2.2
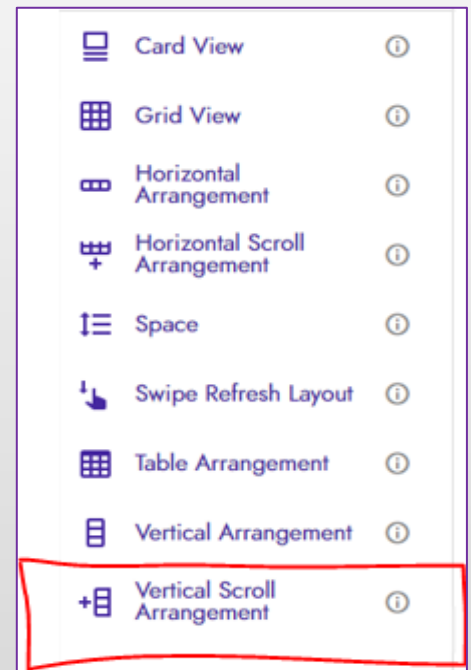
Rename the component into " *logoContainer* ".

2.3

Preparing The Layout

2.4 Click **"logoContainer"**.

All Components ⌄   ✏️   🗑️

⊖   📱   Screen1

       +🗐   logoContainer

2.5 Change Width to Fill parent.

logoContainer Properties

Common properties

Align Horizontal
Left : 1   ⌄

Align Vertical
Top : 1   ⌄

Background Color
⚪ #00000000

☐ Clickable

Height
Automatic   🔳   ⛶

Width
Fill parent   🔳   ⛶

Image
None   ⌄   ☁️   🔗

☑️ Scrollbar

☐ Use Round Card

☑️ Visible

☐ Is Card
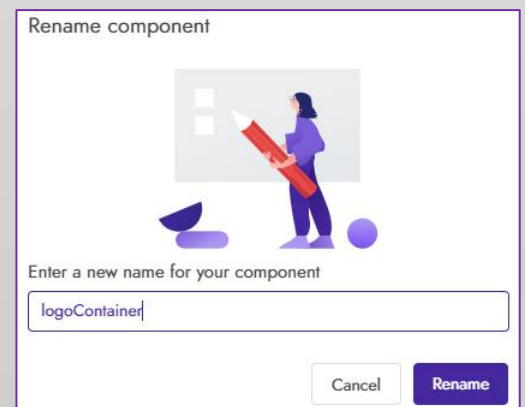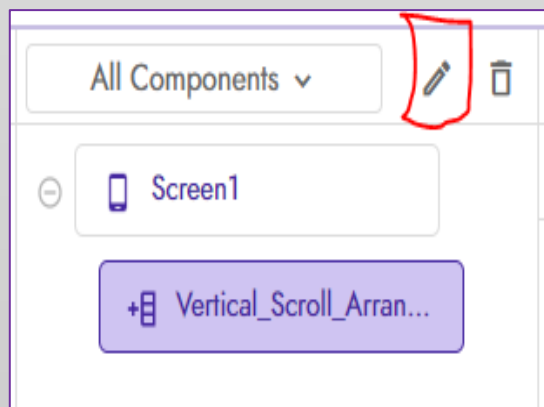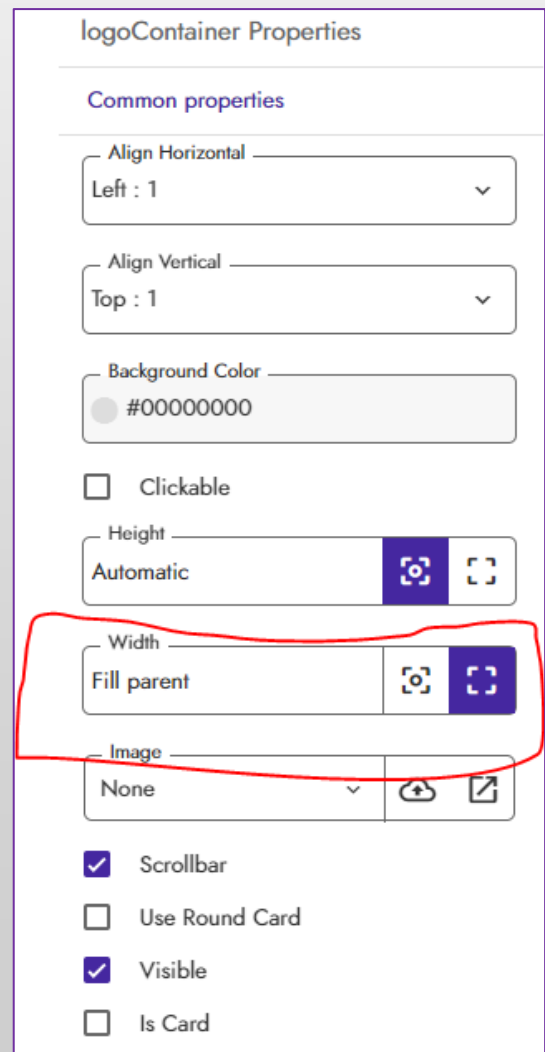
Preparing The Layout

Choose Layout 2

2.6 Drag space to logoContainer
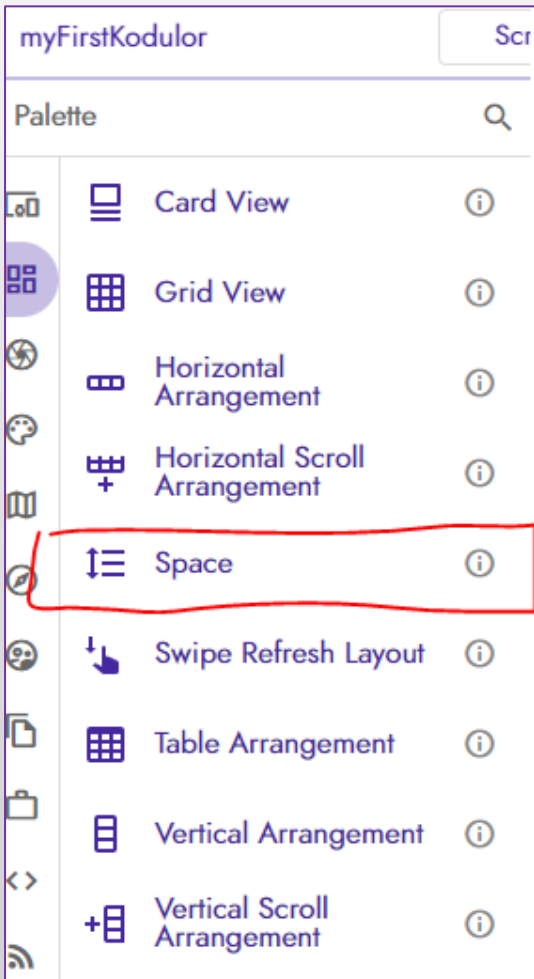
2.7 Click "**Space1** ".
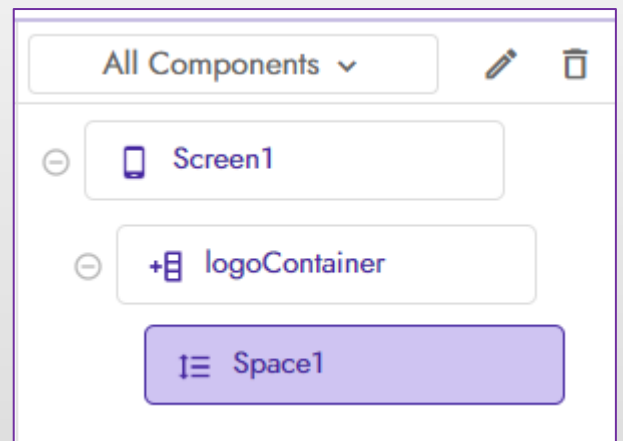
Preparing The Layout

2.8 Change Height to 10% and width to Fill parent ".

Space1 Properties

Common properties

Height
10%

Width
Fill parent

☑ Visible

2.9 Click "User Interface ".

myFirstKodulor

Palette
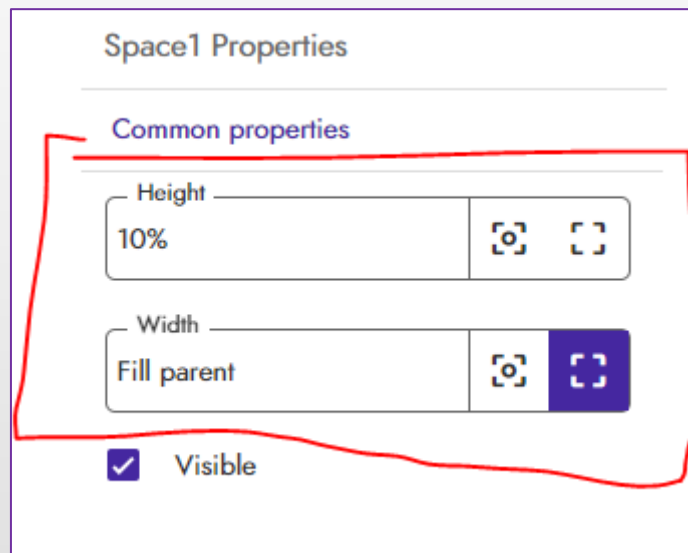
User Interface
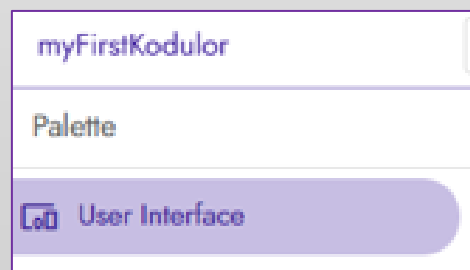
Preparing The Layout

Drag Image 3

3.1 Drag "**Image**" to logoContainer put it below the "Space1".

	■	Button	ⓘ
⊞	☑	Checkbox	ⓘ
	↻	Circular Progress	ⓘ
		Custom Progress	ⓘ
	📅	Date Picker	ⓘ
	⊕	Floating Action Button	ⓘ
	▲	Image	ⓘ
		Label	ⓘ
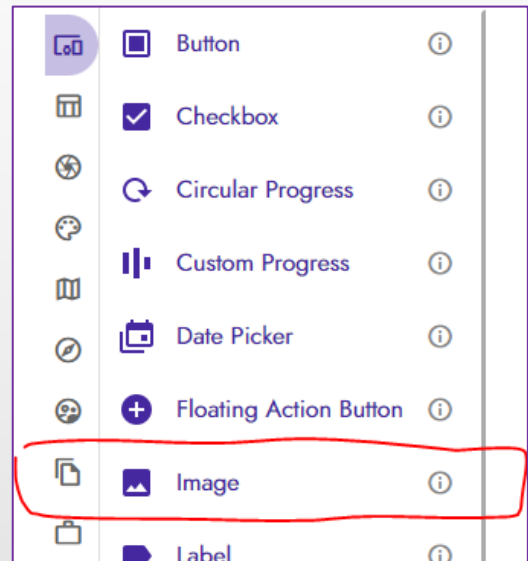
3.2 Click "Image " component then rename to logoImage.

All Components ∨

- 📱 Screen1
  - +⊟ logoContainer
    - ≣ Space1
    - 🖼 Image1

Rename component

Enter a new name for your component

logoImage

Cancel   Rename

25
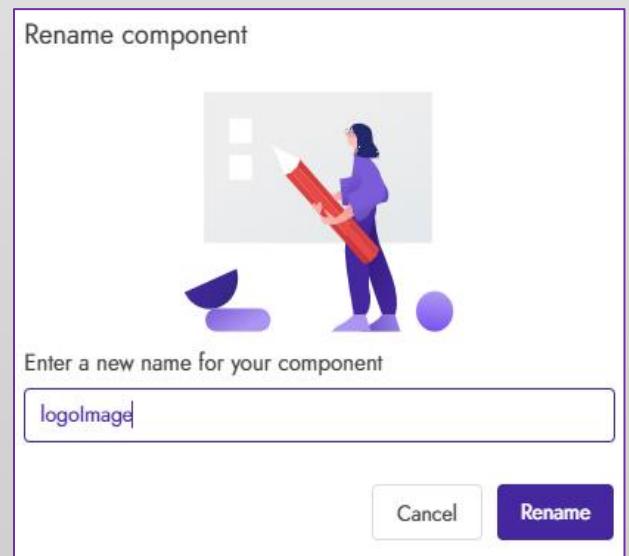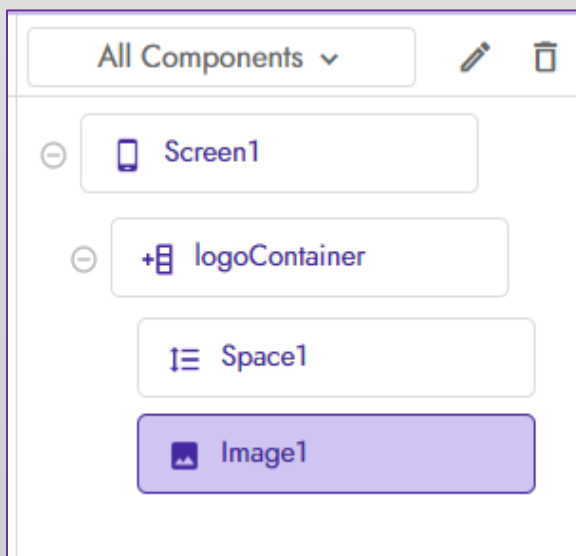
Preparing The Layout

Drag Image **3**

3.3 Click "logoImage ".

All Components ∨	✏ 🗑

⊖ 📱 Screen1

⊖ +🗄 logoContainer

↕≡ Space1

🖼 logoImage

---

logoImage Properties

Common properties

☐ Clickable

Height
20% ⊙ ⟦ ⟧

Width
Fill parent ⊙ ⟦ ⟧

Picture
logo.png ∨ ☁ ↗

Rotation Angle
0.0

☐ Scale Picture To Fit

☑ Visible
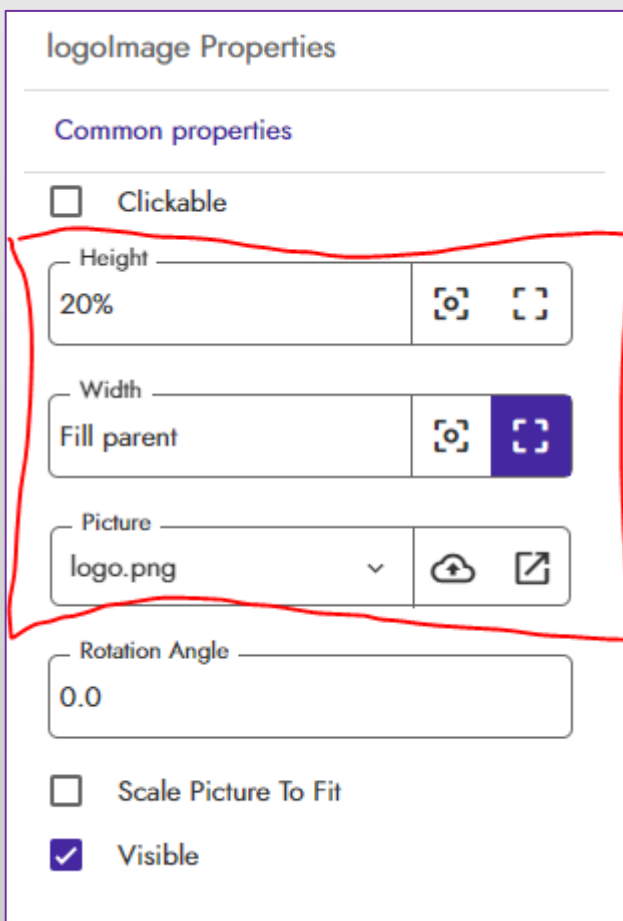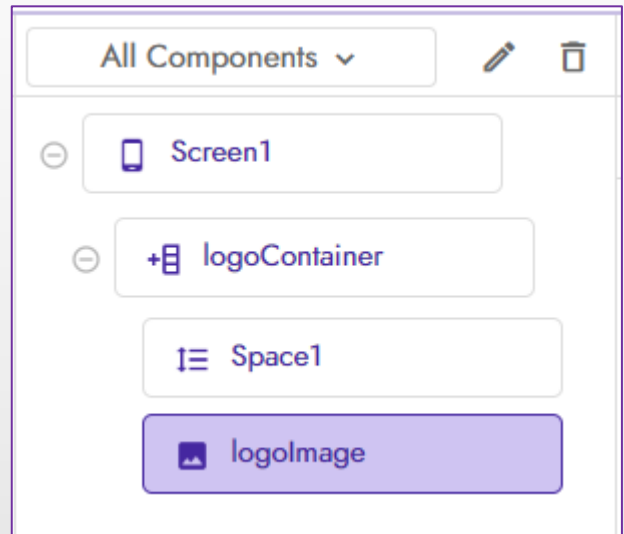
3.4 Change Height to 20%, Width to Fill parent and Choose Picture logo.png in drop down list

Preparing The Layout

3.5 Drag a new vertical Scroll Arrangement, and put below the **logoContainer,** rename the component to "**HideShowContainer**"
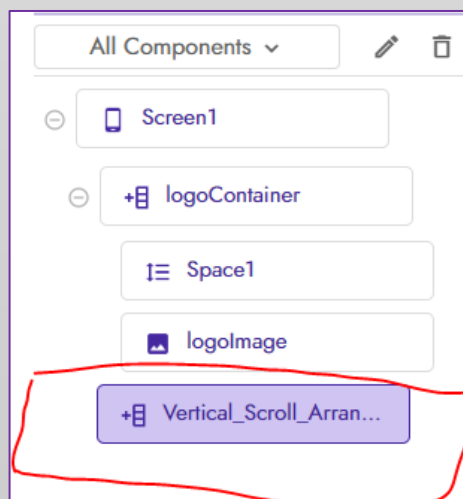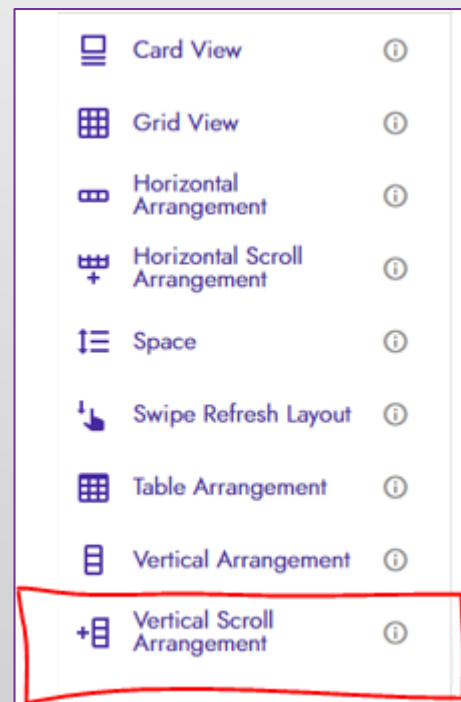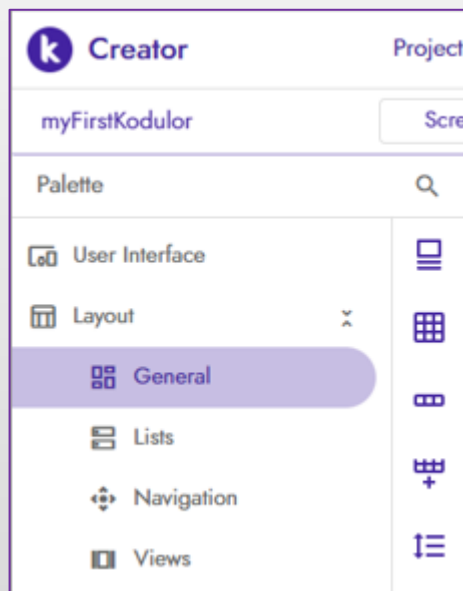
Preparing The Layout

Drag Image **3**

Rename component

Enter a new name for your component

HideShowContainer

Cancel | **Rename**

HideShowContainer ➡️

28

Preparing The Layout

3.6 Set the properties for "**HideShowContainer**"

HideShowContainer Properties

Common properties

Align Horizontal
Left : 1

Align Vertical
Top : 1

Background Color
#00000000

☑ Clickable

Height
10%

Width
Fill parent

Image
None

☑ Scrollbar
☐ Use Round Card
☑ Visible
☐ Is Card

3.7 Choose layout palette from the left side, then choose User Interface component and drag **TWO (2)** buttons to **HideShowContainer**.

Palette

User Interface
Layout
Media
Drawing and Animation

Button
☑ Checkbox
Circular Progress
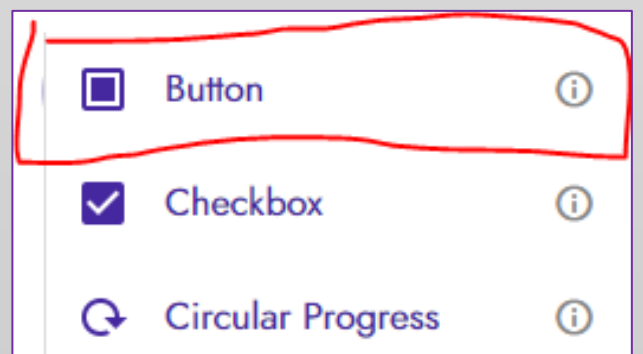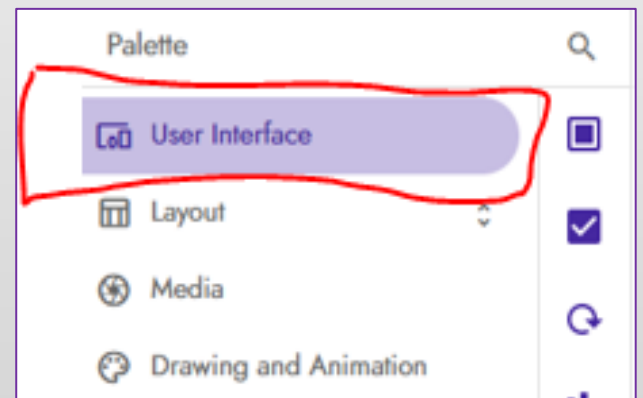
Preparing The Layout

Drag Image 3

3.8 Drag both
buttons to
HideShowContainer

Text for Button1
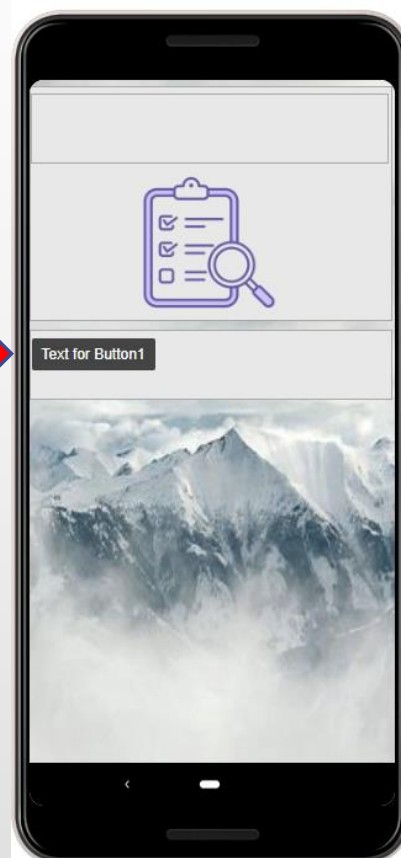
3.9 Rename for both buttons to
"**HideShowButtonLogin**" and
"**HideShowButtonRegister**"

Rename component

Enter a new name for your component

HideShowButton

Cancel   **Rename**
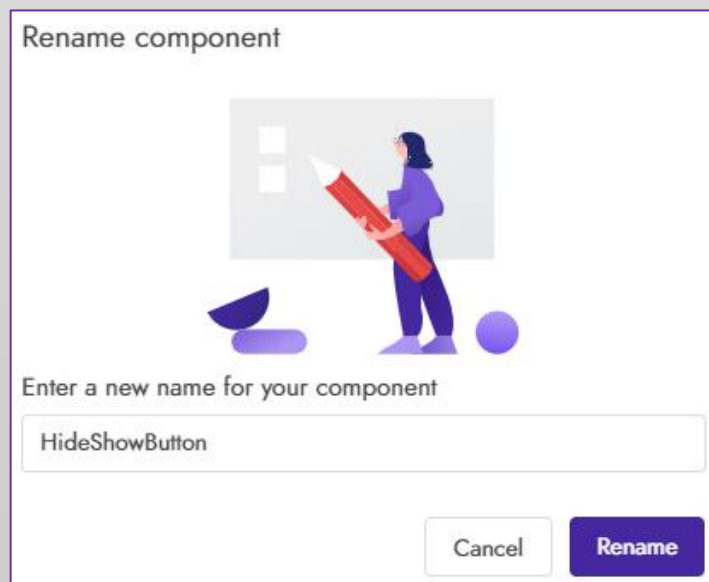
Preparing The Layout

4.1 Set the properties for "**HideShowButtonLogin**" and "**HideShowButtonRegister**" as in picture 4.1a and 4.1b

4.1a

4.1b

HideShowButton Properties

Common properties

Background Color
● #673AB7FF

☑ Enabled
☑ Font Bold
☐ Font Italic

Font Size
18.0

Font Typeface
Font Awesome 5 (Brands)

Height
Fill parent

Width
Fill parent

Image
None

Shape
Rounded

Text
Login

Text Alignment
Center : 1

Text Color
○ #FFFFFFFF

☑ Visible

Preparing The Layout
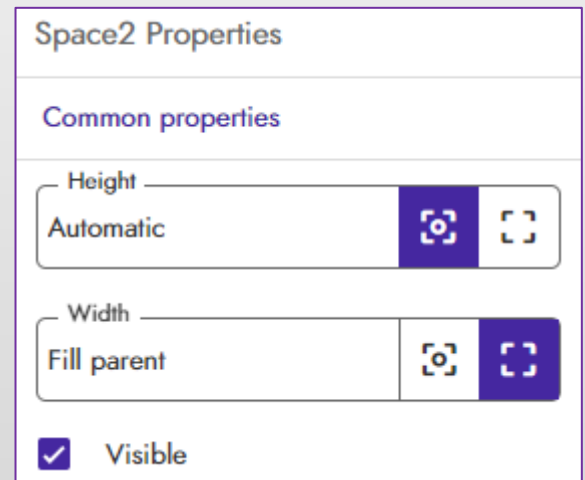
Space | 5

5.1a Drag space below the logoContainer
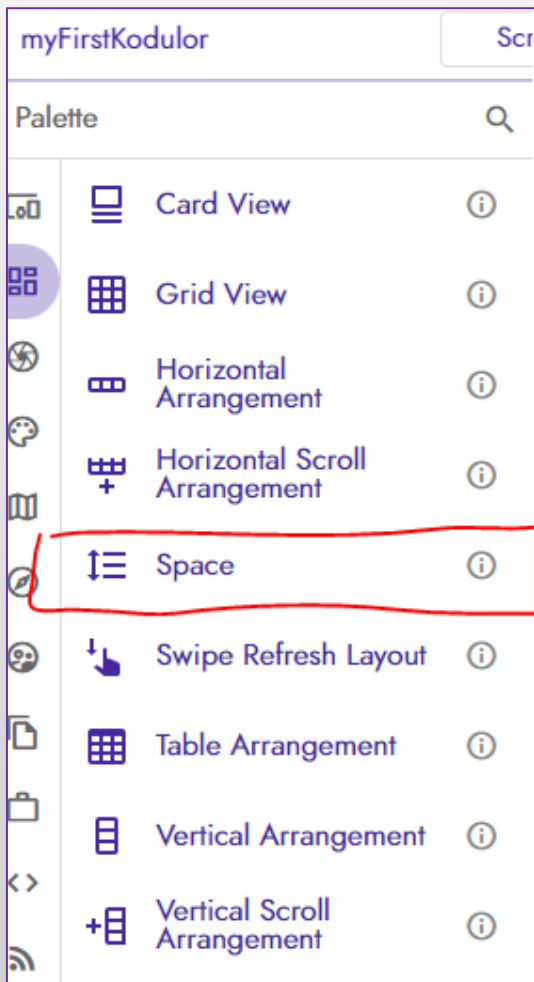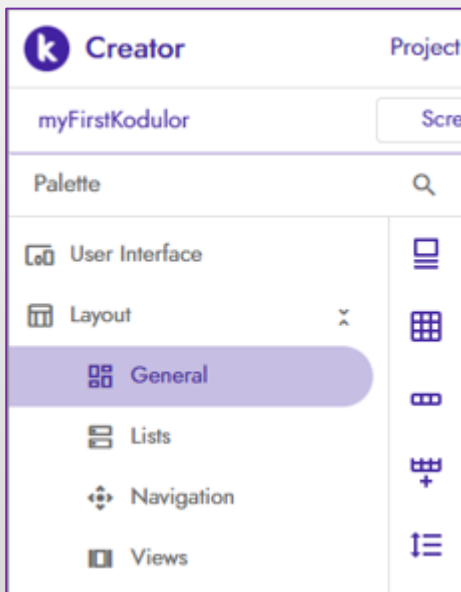

5.1b Set Space Propertise.

Preparing The Layout
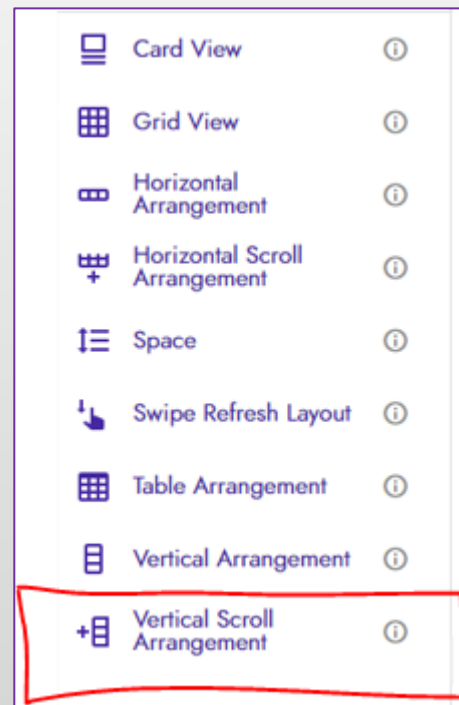
Layout Palette **6**

Choose layout palette from the left side, then choose Vertical Scroll Arrangement component and drag into the screen below "Space2".
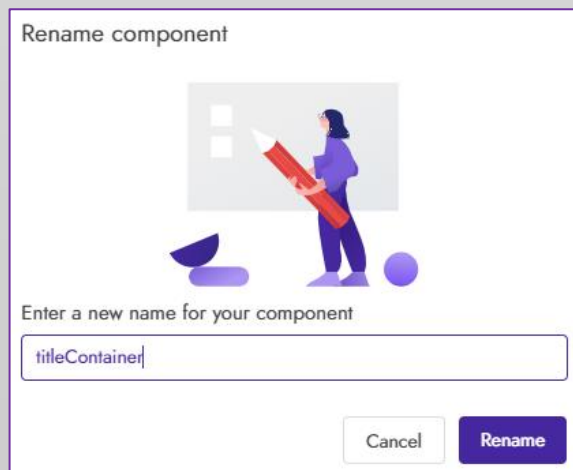
6.1

6.2

6.3

Rename as titleContainer

Preparing The Layout

Layout Palette 6

6.4 Set properties for **titleContainer**

titleContainer Properties

Common properties

Align Horizontal
Left : 1

Align Vertical
Top : 1

Background Color
#00000000

☐ Clickable

Height
20%

Width
Fill parent

Image
None

☑ Scrollbar
☐ Use Round Card
☑ Visible
☐ Is Card

6.5 Drag Label into **titleContainer**

Palette 🔍

☐ Button ⓘ

☑ Checkbox ⓘ

↻ Circular Progress ⓘ

|ι| Custom Progress ⓘ

📅 Date Picker ⓘ

➕ Floating Action Button ⓘ

🖼 Image ⓘ

▶ Label ⓘ

Preparing The Layout

6.6 Rename as **titleContainer**

All Components ⌄ ✏ 🗑

⊖ 📱 Screen1

  ⊖ +⊟ logoContainer

    ↑≡ Space1

    🖼 logoImage

  ↑≡ Space2

  ⊖ +⊟ titleContainer

    ▶ titleLabel

    ↑≡ Space3

  ⊖ +⊟ HideShowContainer

    ⬛ HideShowButton
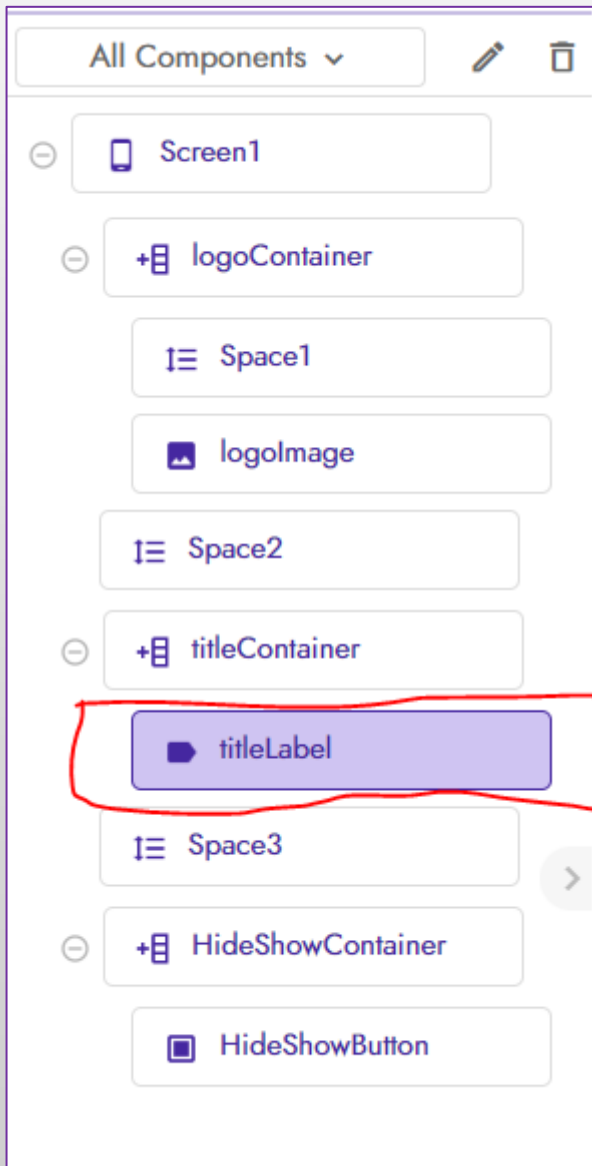
6.7 Set properties for "titleLabel"

titleLabel Properties

Common properties

Background Color
⬤ #673AB7FF

☐ Clickable

☑ Font Bold

☐ Font Italic

Font Size
24.0

Font Typeface
Font Awesome 5 (Brands) ⌄

Height
Automatic ⌖ ⤢

Width
Fill parent ⌖ ⤢

Text
Training Evaluation Management System

Text Alignment
Center : 1 ⌄

Text Color
○ #FFFFFFFF

☑ Visible

35
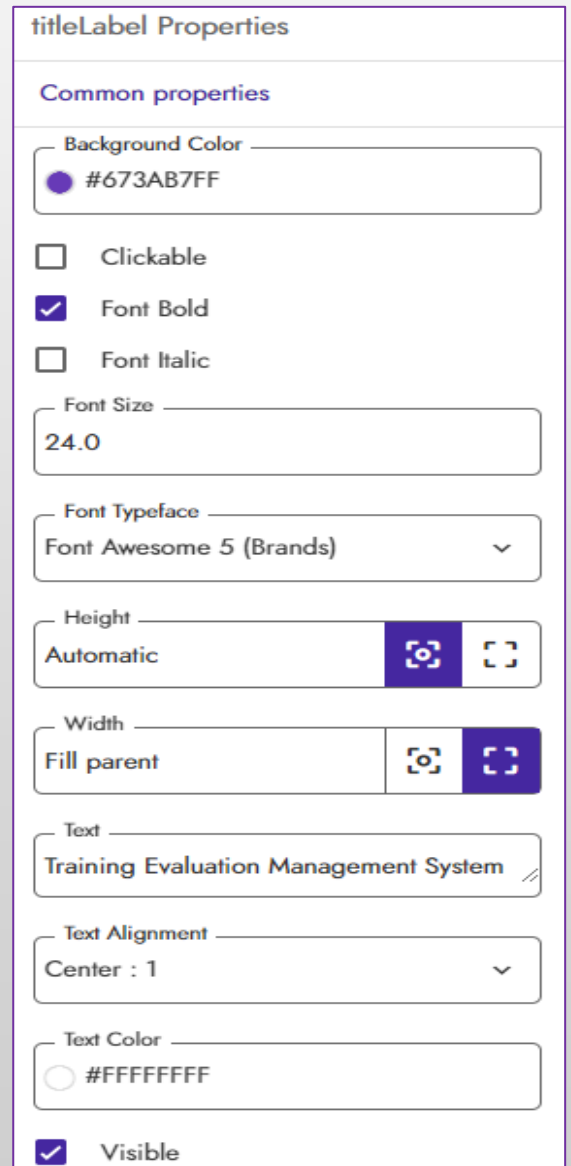
Preparing The Layout

Drag Space   **7**

7.1 Drag space below the titleContainer
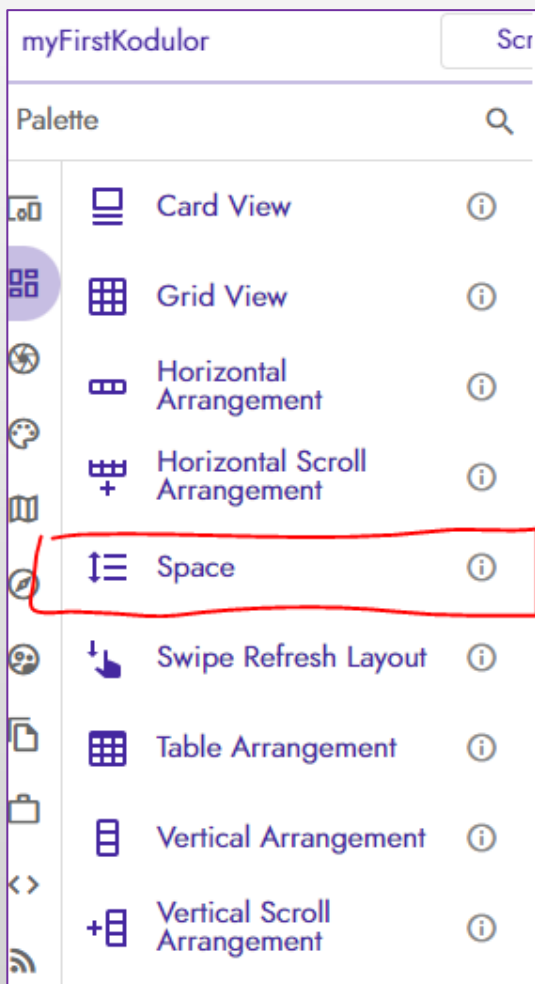
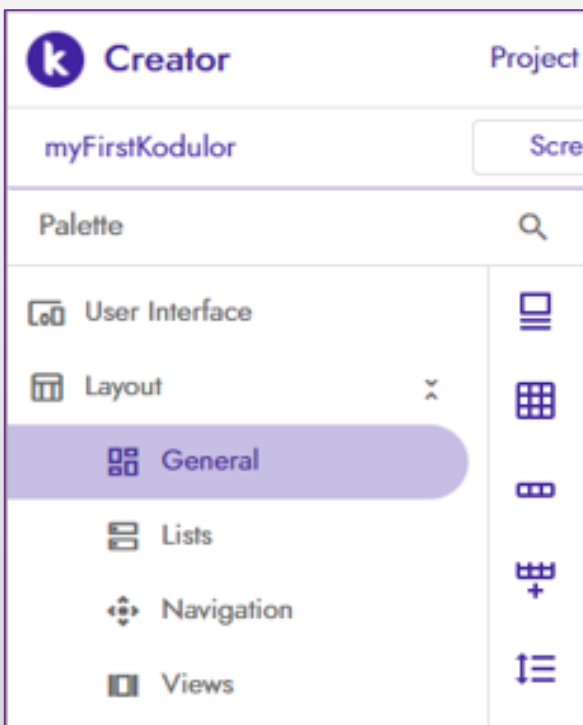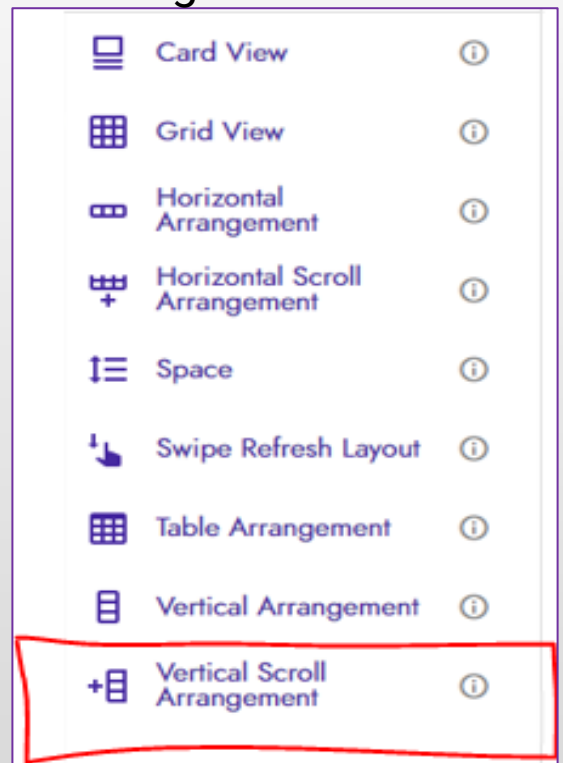## 7.2 Set Space Propertise.
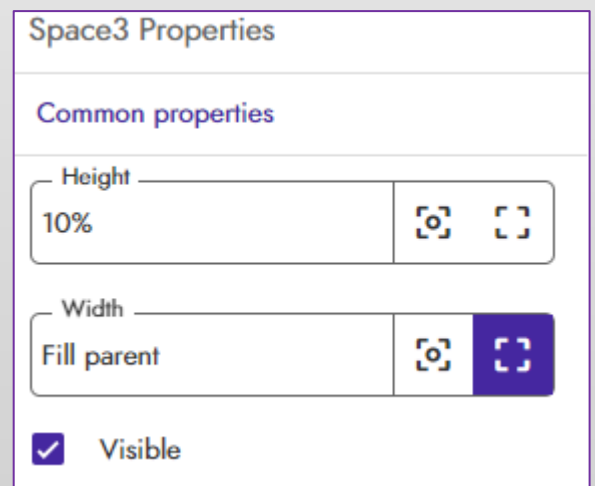
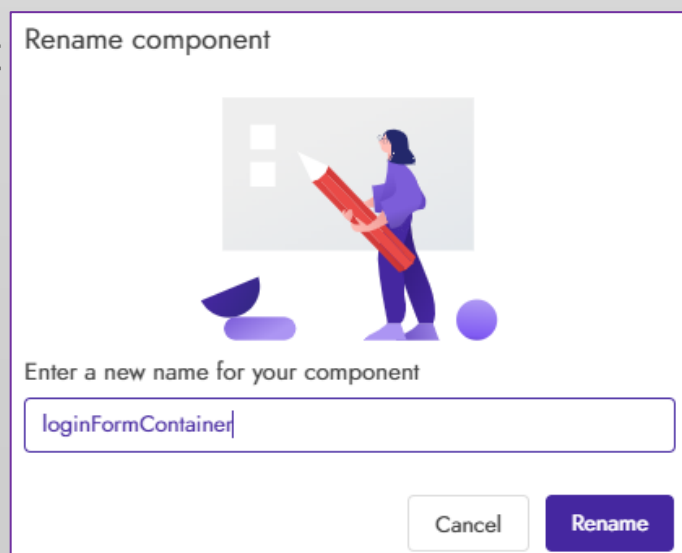# Preparing Login Form

8.1 Choose layout palette from the left side, choose General.

8.2 Choose Vertical Scroll Arrangement component and drag into the screen.

8.3 Rename Vertical Scroll Arrangment component to "**loginFormContainer**"

Preparing Login Form

Login   8

8.3 Set properties "**loginFormContainer**"

loginFormContainer Properties

Common properties

Align Horizontal
Center : 3   ⌄

Align Vertical
Top : 1   ⌄

Background Color
● #673AB7FF

☐ Clickable

Height
Fill parent   [◌] [⌐⌐]

Width
Fill parent   [◌] [⌐⌐]

Image
None   ⌄   ⌂   ⌇

☑ Scrollbar

☐ Use Round Card

☑ Visible

☐ Is Card

8.4 Drag space into the loginFormContainer

myFirstKodulor   Scr

Palette   🔍

[📷]   🖥 Card View   ⓘ

[⊞]   ⊞ Grid View   ⓘ

[⬡]   Horizontal   ⓘ
           Arrangement

[◉]   ▦ Horizontal Scroll   ⓘ
           Arrangement

[📖]

[⊘]   ↕≡ Space   ⓘ

[⊙]   ↳ Swipe Refresh Layout   ⓘ

[⎘]   ⊞ Table Arrangement   ⓘ

[▯]   ⊟ Vertical Arrangement   ⓘ

< >
       +⊟ Vertical Scroll   ⓘ
           Arrangement
[📶]

38

Preparing Login Form

Login   8

8.5 Set Space4 Properties.

Space4 Properties

Common properties

Height
10%

Width
Automatic

☑ Visible

8.6 Drag Label below the Space4, then Set Label1 properties.

Label1 Properties

Common properties

Background Color
● #673AB7FF

☐ Clickable

☑ Font Bold

☐ Font Italic

Font Size
20.0

Font Typeface
Default

Height
Automatic

Width
Fill parent

Text
Login User Account

Text Alignment
Center : 1

Text Color
○ #FFFFFFFF

☑ Visible

8.7 Drag Space below the Label1, then Set Space8 properties.

Space8 Properties

Common properties

Height
2%

Width
Automatic

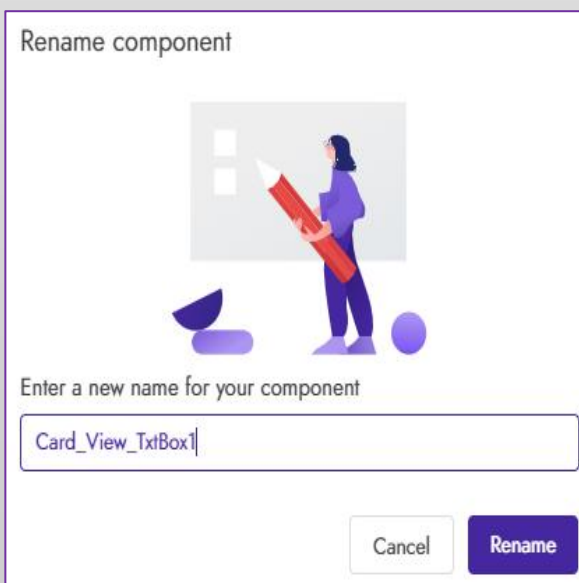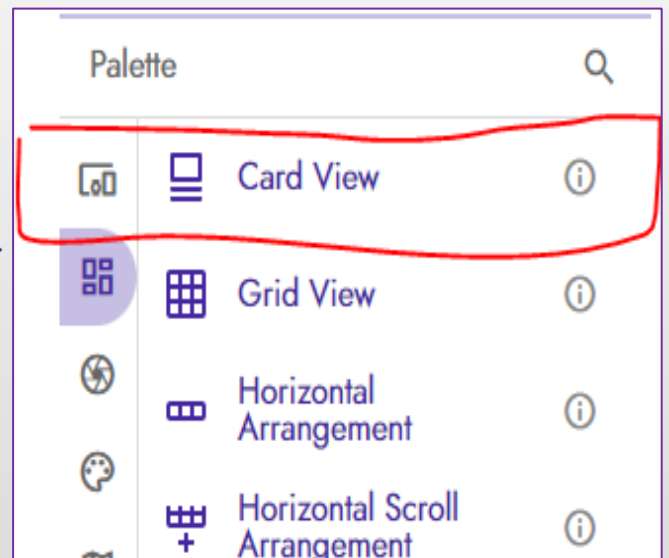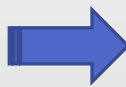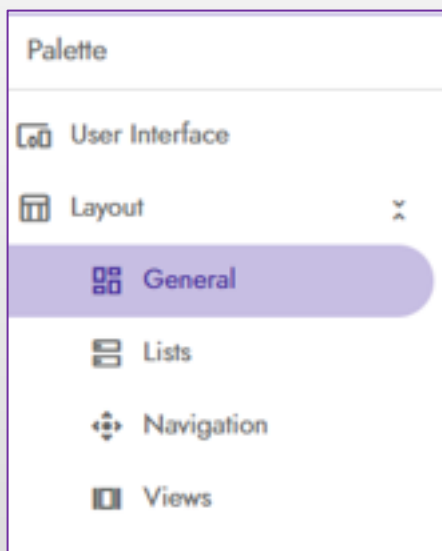☑ Visible

Preparing The Layout

9.1 Choose layout palette from the left side, then choose Card View component and drag into loginFormContainer below "Space4".

9.2 Rename Card View component
as **Card_View_TxTBox1**

# Preparing The Layout

Layout Palette 9

9.3 Set properties to
Card_View_TxTBox1
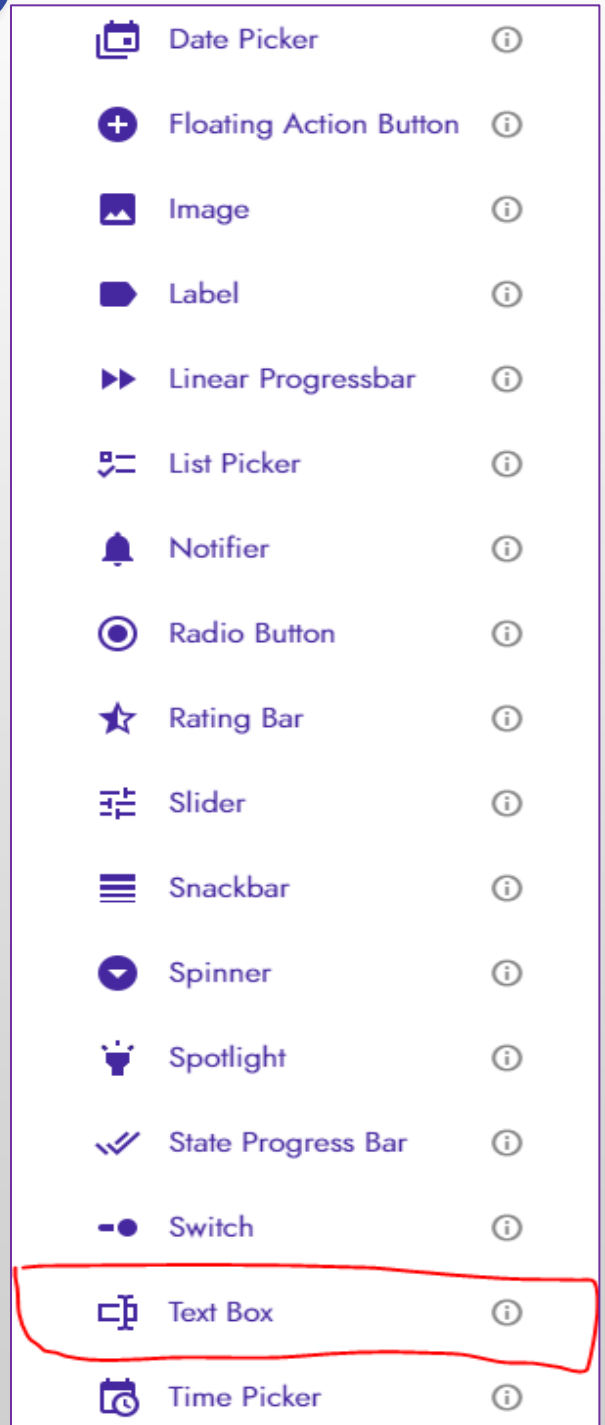
Card_View_TxtBox1 Properties

Common properties

Align Horizontal
Center : 3

Align Vertical
Center : 2

Background Color
#FFFFFFFF

Content Padding Bottom
0

Content Padding Left
15

Content Padding Right
0

Content Padding Top
0

Corner Radius
10

Elevation
0

☐ Full Clickable

Height
8%

Width
300px

Preparing The Layout

10.1 Choose layout palette from the left side,
then choose User Interface component and drag TextBox into
Card_View_TxtBox1.

myFirstKodulor

Palette

User Interface

	Date Picker	ⓘ
➕	Floating Action Button	ⓘ
🖼	Image	ⓘ
	Label	ⓘ
▶▶	Linear Progressbar	ⓘ
	List Picker	ⓘ
🔔	Notifier	ⓘ
⦿	Radio Button	ⓘ
★	Rating Bar	ⓘ
	Slider	ⓘ
≡	Snackbar	ⓘ
	Spinner	ⓘ
	Spotlight	ⓘ
✅	State Progress Bar	ⓘ
⊸●	Switch	ⓘ
	Text Box	ⓘ
	Time Picker	ⓘ

Preparing The Layout

10.2 Rename TextBox to **txtUsername**
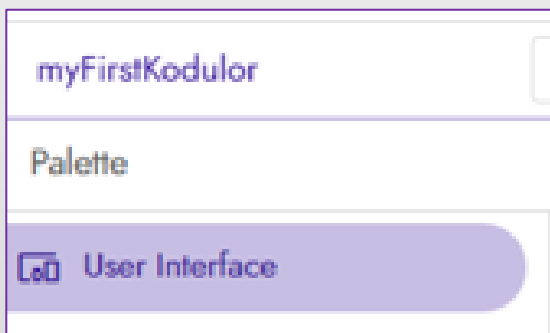
Preparing The Layout

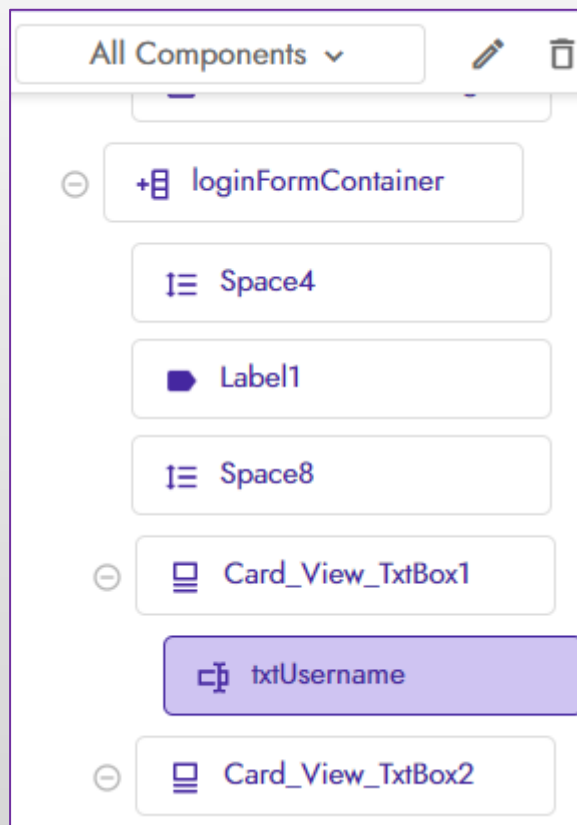**Layout Palette** 10

10.3 Setting the properties of txtUsername

txtUsername Properties

Common properties

Background Color
#FFFFFFFF

☑ Enabled

Error Text

☐ Font Bold
☐ Font Italic

Font Size
18.0

Font Typeface
Default

Height
Automatic

Width
Fill parent

Hint
Fill Username

Hint Color
#000000FF

Input Type
Normal: 1

☐ Multiline
☐ Read Only

Text

Text Alignment
Center : 1

Text Color
#000000FF

☑ Visible

Advanced properties ⌄

Cursor Color
#000000FF

☑ Cursor Visible

Font Typeface Import
None

Highlight Color
#00000000

Max Lines
2147483647

Rotation Angle
0.0

Preparing The Layout

Layout Palette **11**

11a. Drag space below the Card_View_TxtBox1
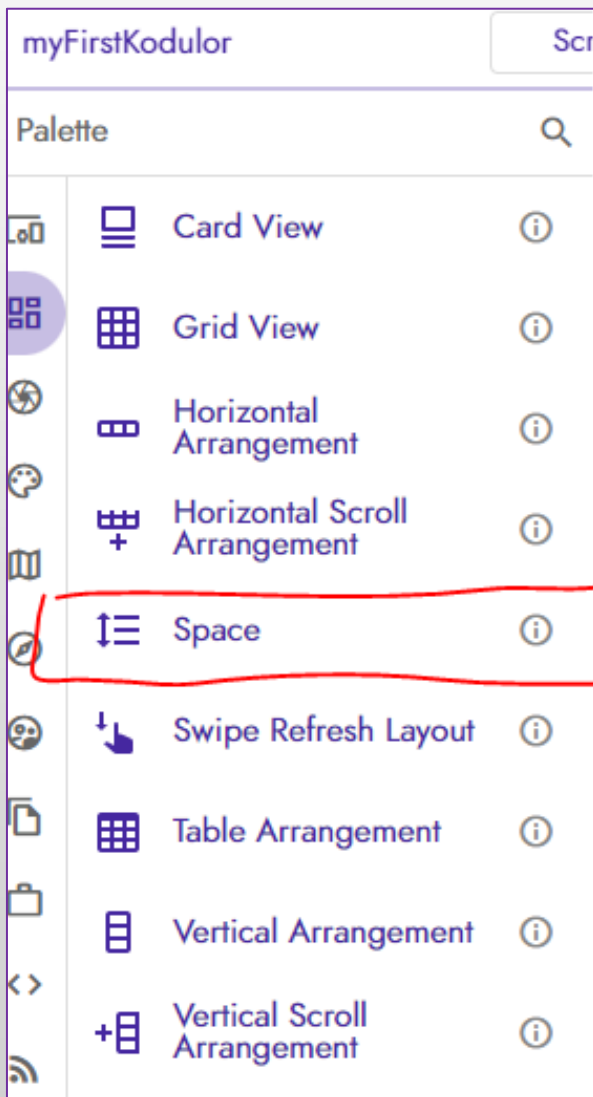
11b. Set Space Properties.
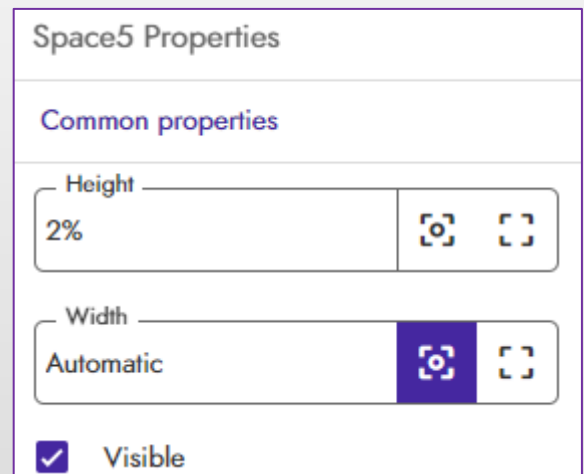
Repeat steps in slide 44 until 48. Give the Card View name as "**Card_View_TxtBox2**" and TextBox as "**txtPassword**".

Preparing The Layout

12.1 Choose layout palette from the left side, then choose User Interface component and drag TWO(2) buttons to **loginFormContainer**.
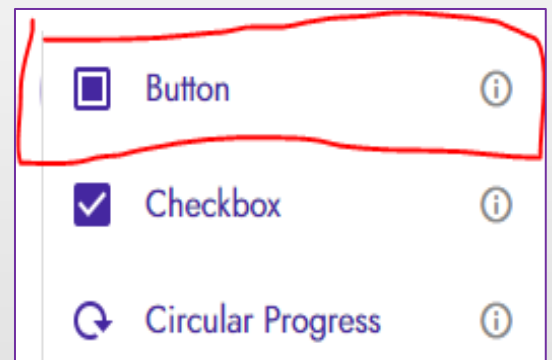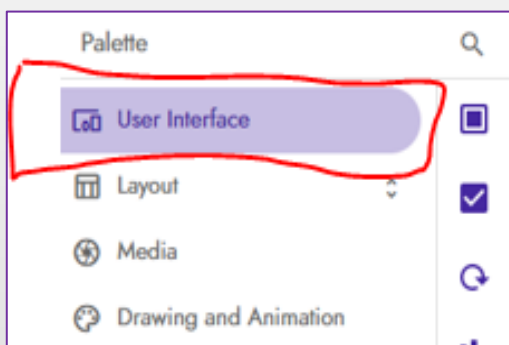
12.2 Drag both buttons to loginFormContainer

Preparing The Layout

12.4 Set properties for both buttons.

loginButton Properties

Common properties

Background Color
● #9C27B0FF

☑ Enabled

☑ Font Bold

☐ Font Italic

Font Size
18.0

Font Typeface
Default

Height
8%

Width
50%

Image
None

Shape
Rounded

Text
Login

Text Alignment
Center : 1

Text Color
○ #FFFFFFFF
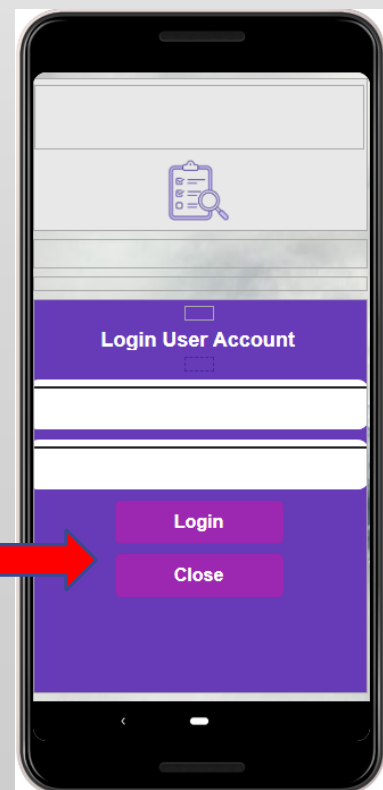
12.3 Rename both buttons to "**loginButton**" and "**closeLoginButton**"

Rename component

Enter a new name for your component

loginButton

Cancel   **Rename**

Preparing The Layout

12.5 In loginFormContainer properties, uncheck Visible to hide the loginFormContainer at the start of the application being executed.

loginFormContainer Properties
Common properties

Align Horizontal
Center : 3

Align Vertical
Top : 1

Background Color
● #673AB7FF

☐ Clickable

Height
Fill parent

Width
Fill parent

Image
None

☑ Scrollbar

☐ Use Round Card

☐ Visible

☐ Is Card

48

Final User Interface Design
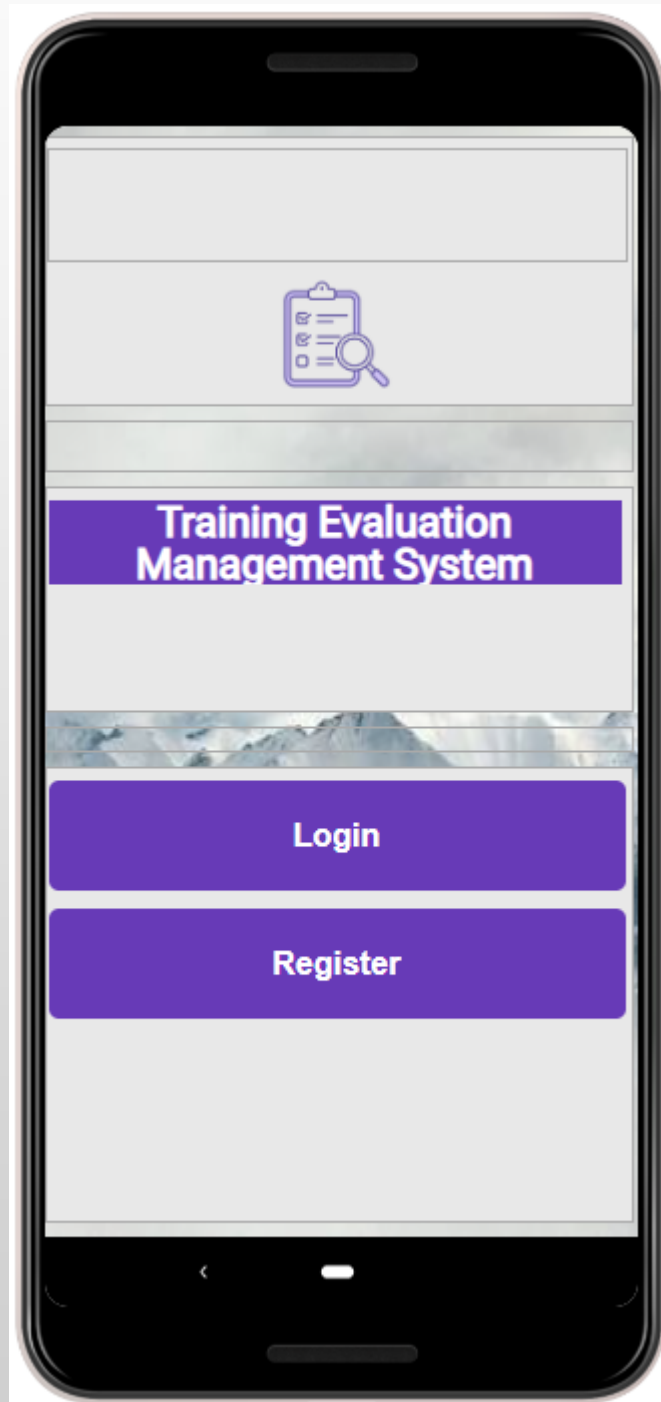
Preparing The
BLOCK

Preparing The Block

Palette Utilities **1**

1.1 Choose from Pallete Utilities
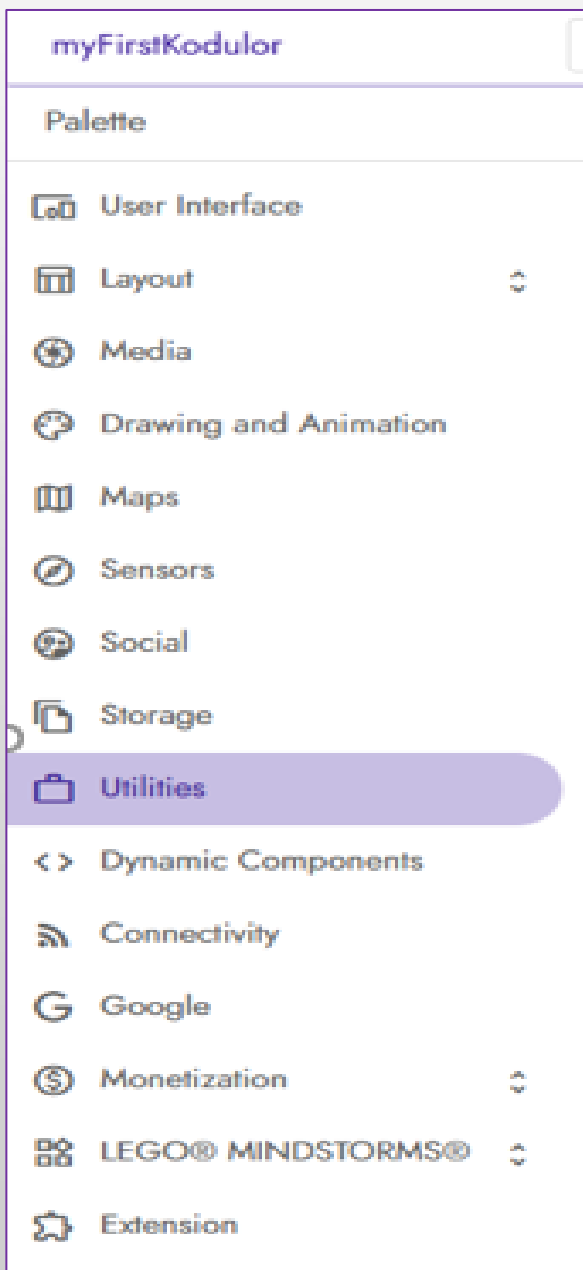
1.2 Drag the animation utilities component into application

Preparing The Block

1.3 It will appear in All Components panel
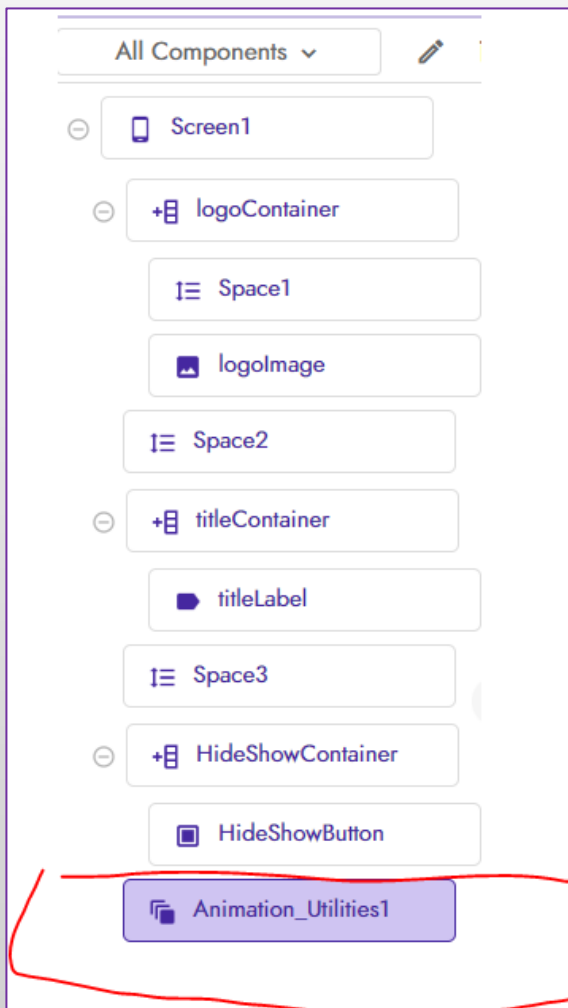
1.4 Choose Block from the right panel

52

Preparing The Block

1.5 Viewer for writing the codes appear
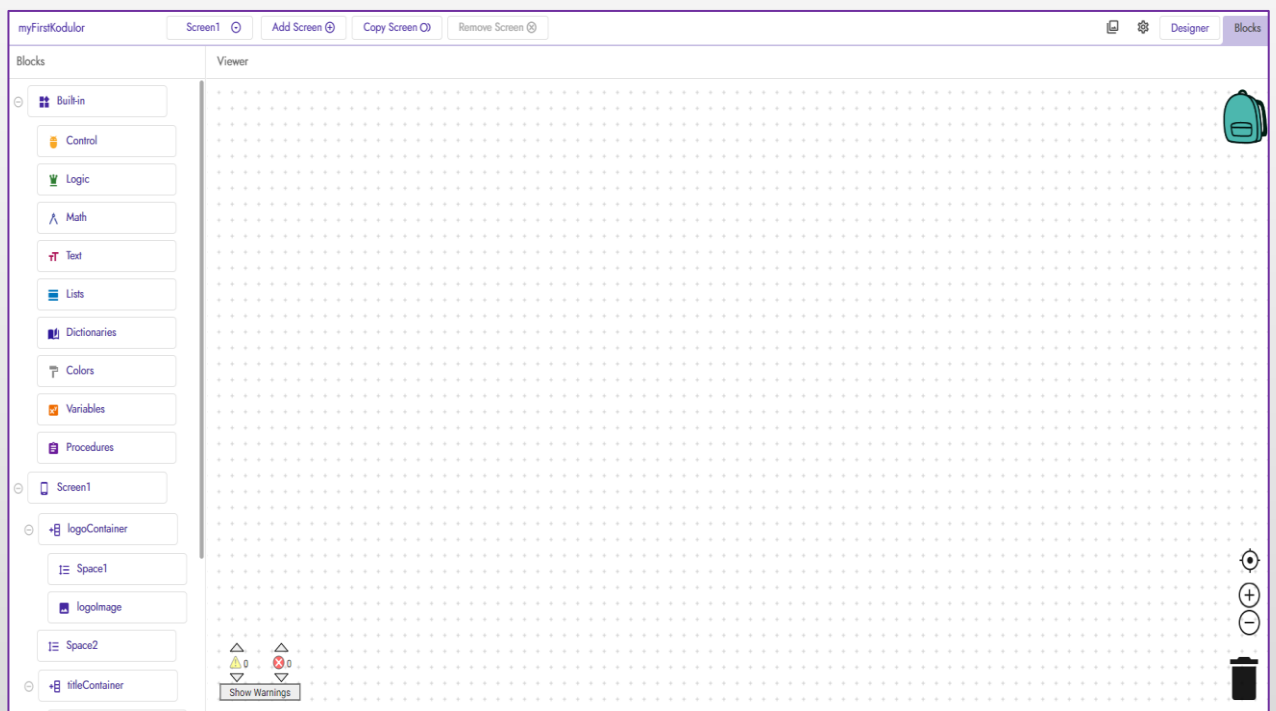
Preparing The Block

1.6 Choose HideShowButtonLogin from left Blocks panel
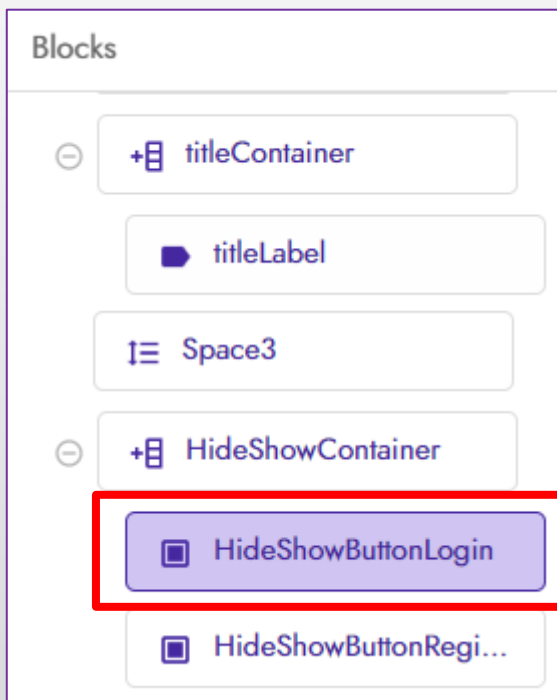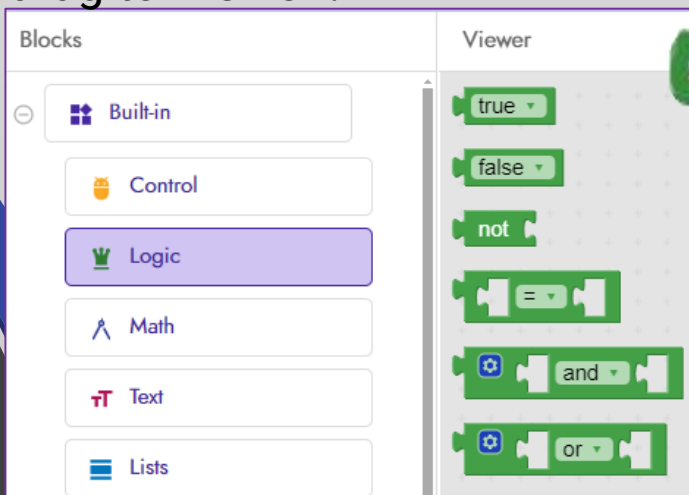
1.7 Choose following block from HideShowButtonLogin blocks then drag to Viewer.
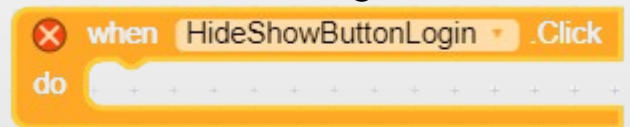
1.8 Choose following block from HideShowContainer blocks then drag to Viewer.

1.9a Choose block **false** from Logic blocks then drag to Viewer .

1.9b Set block **false** to block set HideShowContainer

54
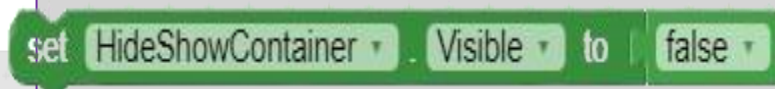
Preparing The Block

1.9c Choose following block from loginFormContainer blocks then drag to Viewer.

1.9d Choose block **true** from Logic blocks then drag to Viewer .
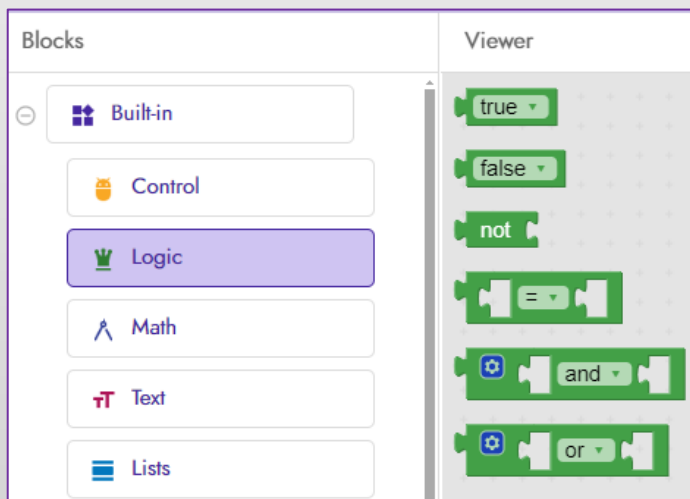
1.9e Set block **true** to block set loginFormContainer

Preparing The Block

1.9f Choose following block from registerFormContainer blocks then drag to Viewer.

1.9g Choose block **false** from Logic blocks then drag to Viewer .
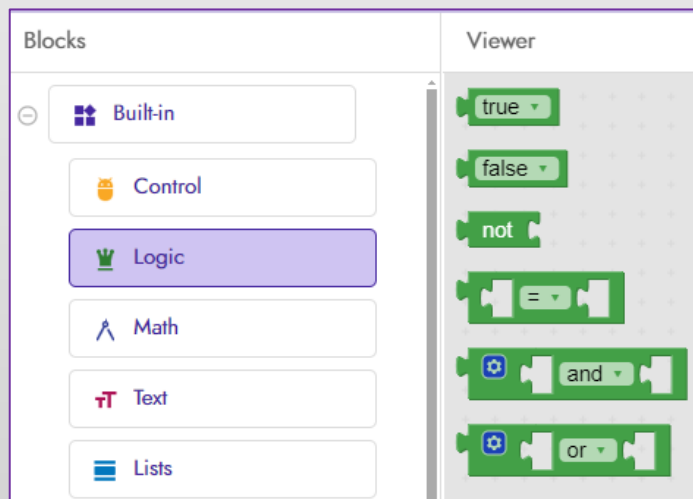
1.9h Set block **false** to block set registerFormContainer
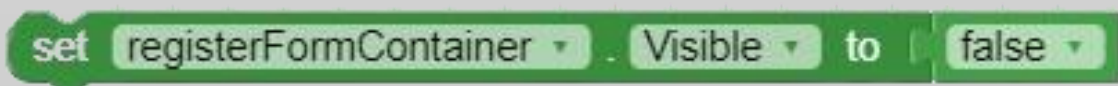
Preparing The Block

2.1a Choose following block from Animation_Utilities1 blocks then drag to Viewer.

```
call  Animation_Utilities1 ▾ .Bounce Vertical
                                    component
                                start Position
                                  end Position
                                      duration
```

2.1b Choose following block from loginFormContainer blocks then drag to Viewer.

```
loginFormContainer ▾
```

2.1c Choose **THREE (3)** following blocks from Math blocks then drag to Viewer then set the values.

```
1000
```

```
0
```

```
1500
```

57

Preparing The Block

2.2 Then put all the blocks from 1.7 until 2.1c to complete the Code to hide and show loginFormContainer when button HideShowButtonLogin is clicked.

Preparing The Block

2.3 Code to hide and show registerFormContainer when button HideShowButtonRegister is clicked.

Repeat steps in slide 58 until 62 for code to hide and show registerFormContainer when button HideShowButtonRegister is clicked.

Preparing The Block

2.4 Code to close loginFormContainer when button closeLoginButton is clicked.

Repeat steps in slide 58 until 62 for code to close loginFormContainer when button closeLoginButton is clicked.

Preparing The Block

2.5 Code to close registerFormContainer when button closeRegisterButton is clicked.

Repeat steps in slide 58 until 62 for code to close registerFormContainer when button closeRegisterButton is clicked.

Preparing The
DATABASE

Preparing The Database
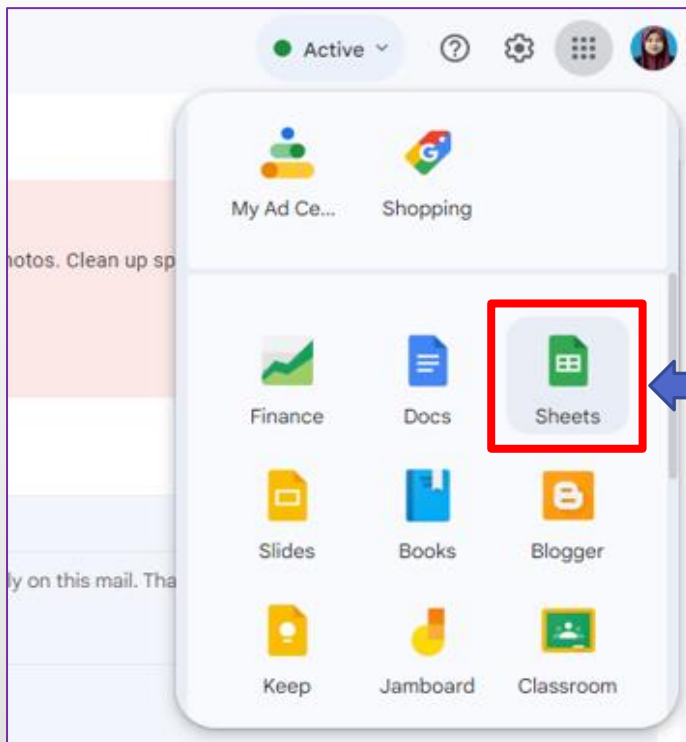
1. Create Sheets Excel in your google account.

	A	B
1	txtUsername	txtPassword
2	madihah	madihah@123
3	ainul	ainul@123
4		
5		
6		

2a. Create TWO (2) columns which is first column, named as txtUsername and second column, named as txtPassword.

2b. Insert TWO (2) dummy data for both columns.

63

Preparing The Database

3. Share link Sheets Excel by clicking Share button on the top right of your google account.
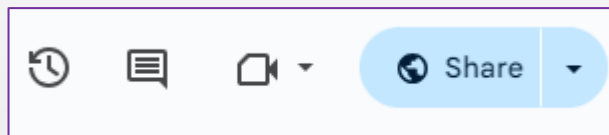
4. Share link Sheets Excel, by choosing General access Anyone with the link, then click Copy link button and click Done button.
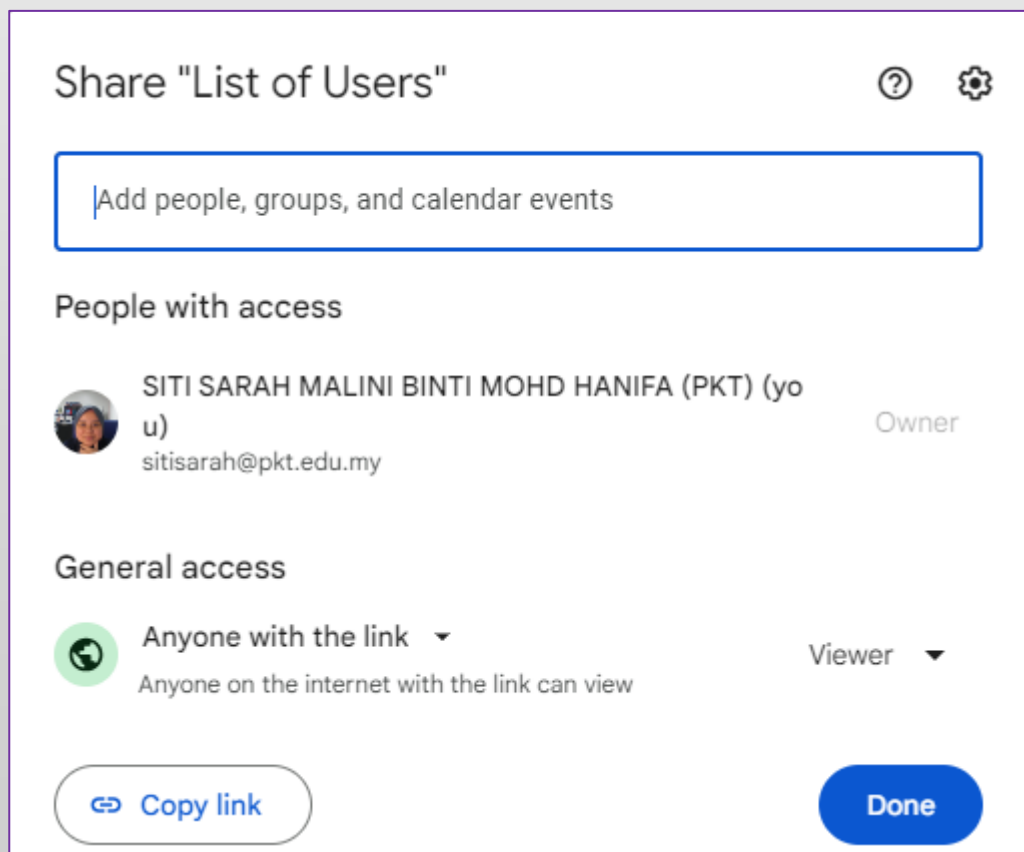
Preparing The
SETTING LOGIN UTILITIES

Preparing The Setting Login Utilities

1. Choose layout Palette from the left side, then choose Connectivity component and drag Web into Screen1.
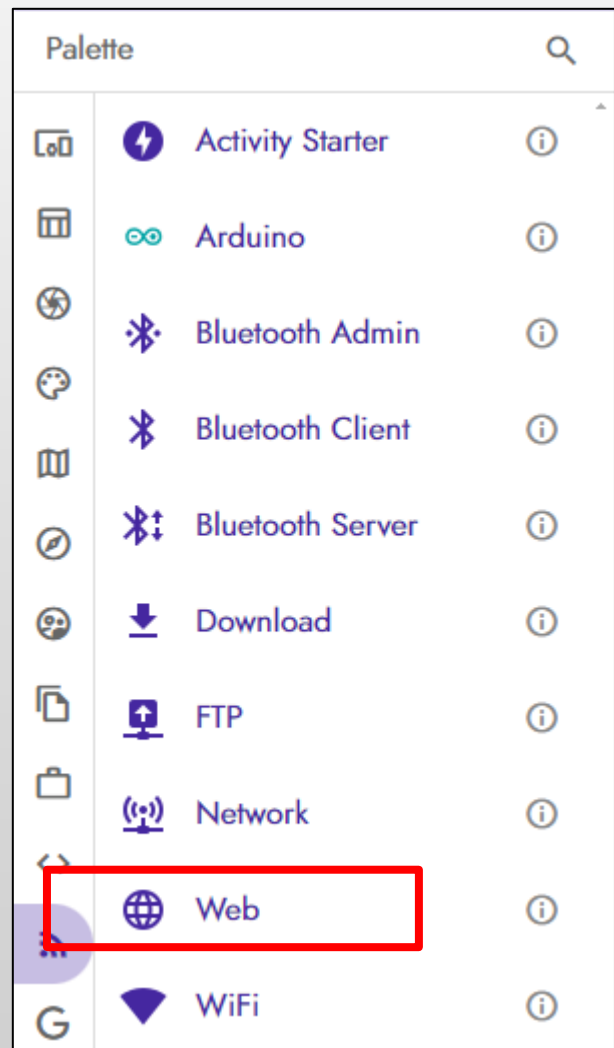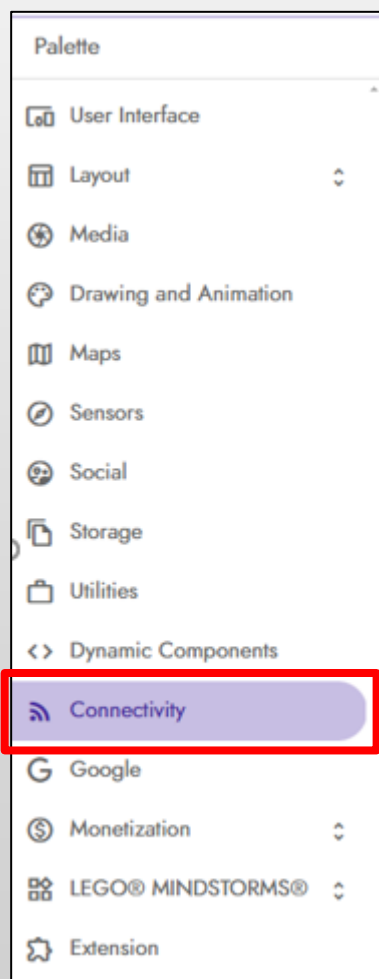
Preparing The Setting Login Utilities

2. Choose layout Palette from the left side, then choose Storage component and drag Tiny DB into Screen1
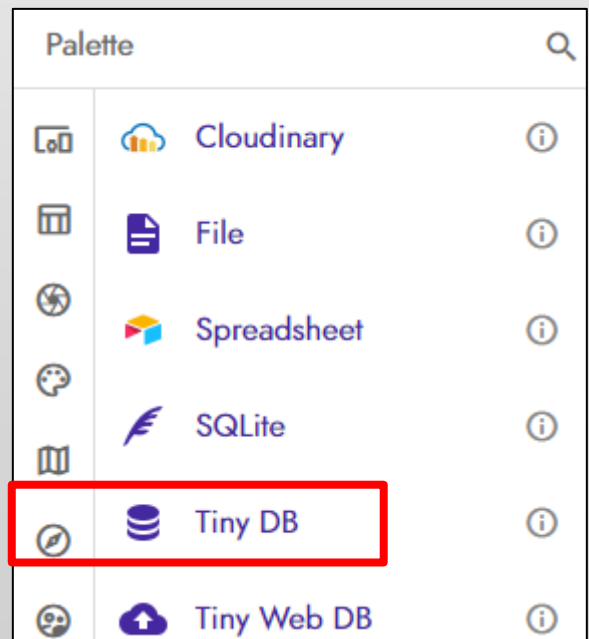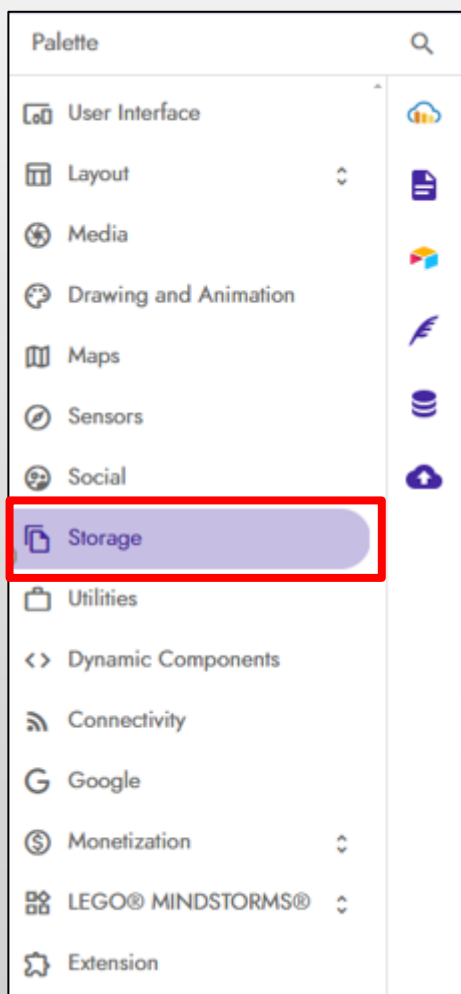
Preparing The Second Screen

3a. Create second screen.

Project	Test	Export	Help

| Screen1 ⊙ | Add Screen ⊕ | Copy Screen ⊙) | Remove Screen ⊗ |
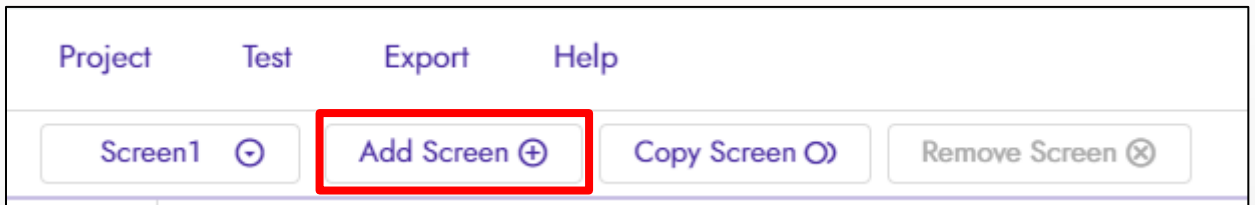
3b. Create second screen named as WelcomePage.

Add screen

Give your new screen a name

WelcomePage

Cancel   Create
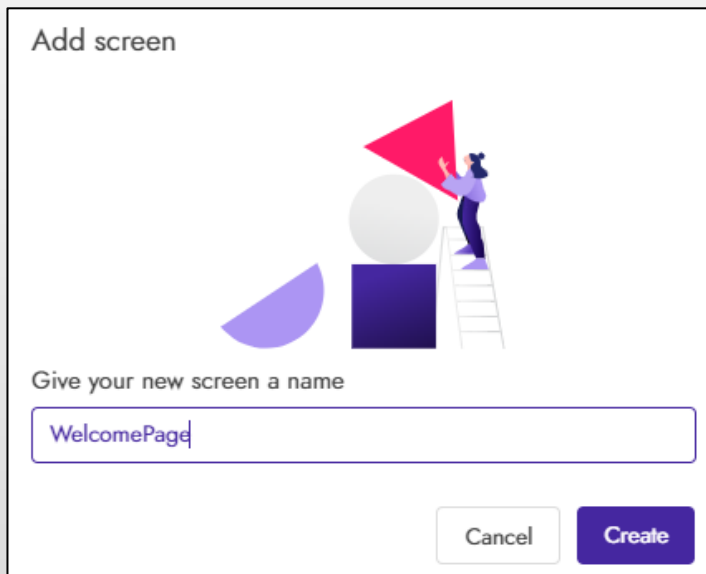
3c. Click the WelcomePage screen find the background image, then choose image.

Project	Test

Welcome... ⊙

☐ Scrollable
☐ Show Options Menu
☐ Show Status Bar

Title
Welcome Page

Title Bar Font Typeface
Font Awesome 5 (Solid) ⌄

Title Bar Subtitle

☑ Title Visible

Advanced properties ⌃

☐ High Quality Images
☐ Keep Screen On

Title Bar Typeface Import
None ⌄ ⌾ ⌾
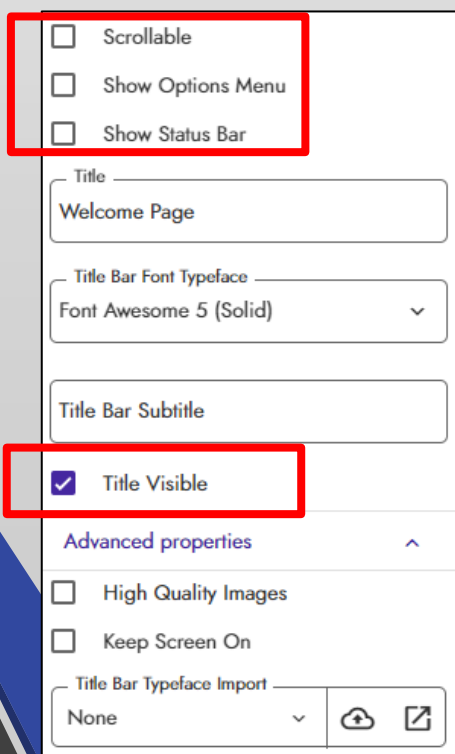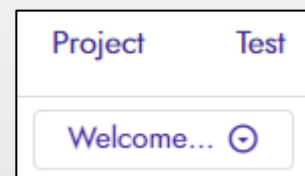
3d. In WelcomePage screen Properties, uncheck the Scrollable, Show Options Menu and Show Status Bar, the check Title Visible.

Preparing The Second Screen

4. Choose layout palette from the left side, then choose Vertical Scroll Arrangement component and drag into the WelcomePage screen.
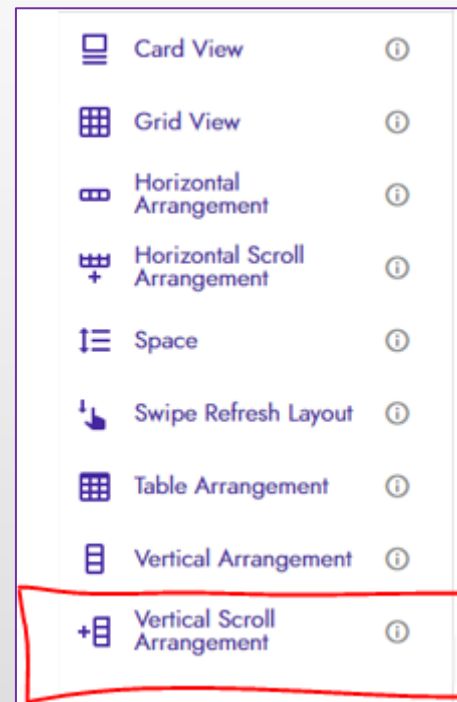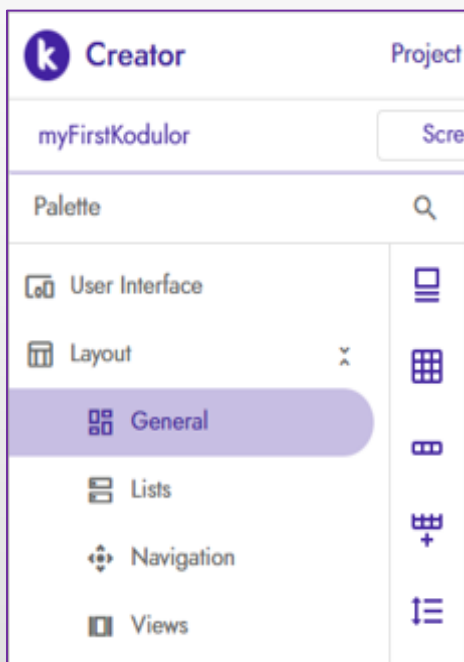
5. Rename the component into "**infoContainer**".
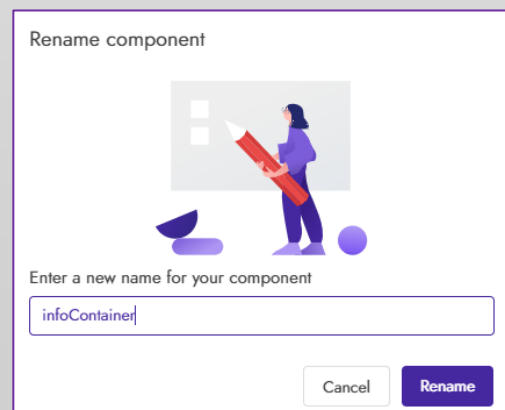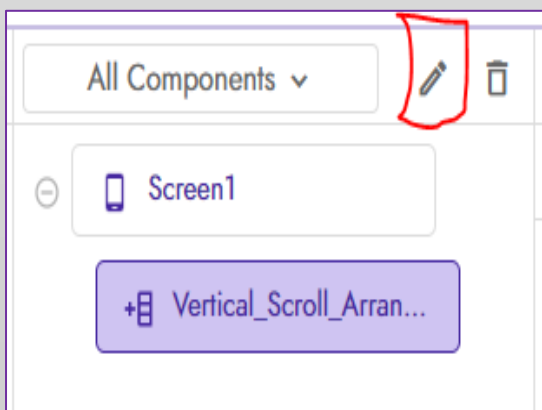
Preparing The Second Screen

6. Setting the infoContainer properties.

infoContainer Properties

Common properties

Align Horizontal
Center : 3

Align Vertical
Top : 1

Background Color
#00000000

☐ Clickable

Height
Automatic

Width
Fill parent

Image
None

☑ Scrollbar

☐ Use Round Card

☑ Visible

☐ Is Card

70

Preparing The Second Screen

7. Choose layout palette from the left side, then choose User Interface and drag Label component into the infoContainer in WelcomePage screen. Then, rename the Label component to haiLabel and setting the haiLabel properties.

Repeat step 7, for next Label component, rename it as userNameLabel.

All Components ⌄

⊖ ☐ WelcomePage

⊖ +☰ infoContainer

▶ haiLabel

▶ userNameLabel

⊖ +☰ logoutContainer

☐ logoutButton

haiLabel Properties

Common properties

Background Color
#FFFFFF00

☐ Clickable
☑ Font Bold
☐ Font Italic

Font Size
18.0

Font Typeface
Font Awesome 5 (Brands) ⌄

Height
Fill parent

Width
Fill parent

Text
Selamat Datang,

Text Alignment
Center : 1 ⌄

Text Color
● #000000FF

☑ Visible

Preparing The Second Screen

8. Choose layout palette from the left side, then choose Vertical Scroll Arrangement component and drag into the WelcomePage screen.

9. Rename the component into "**logoutContainer**".
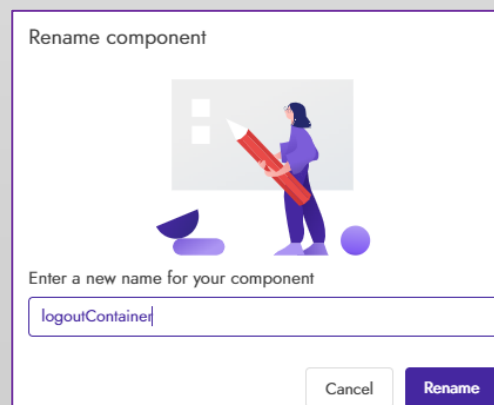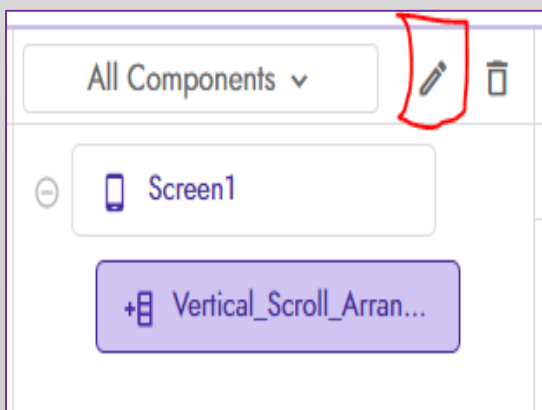
Preparing The Second Screen

10. Setting the logoutContainer properties.

logoutContainer Properties

Common properties

Align Horizontal
Center : 3

Align Vertical
Top : 1

Background Color
⬤ #00000000

☐ Clickable

Height
Automatic

Width
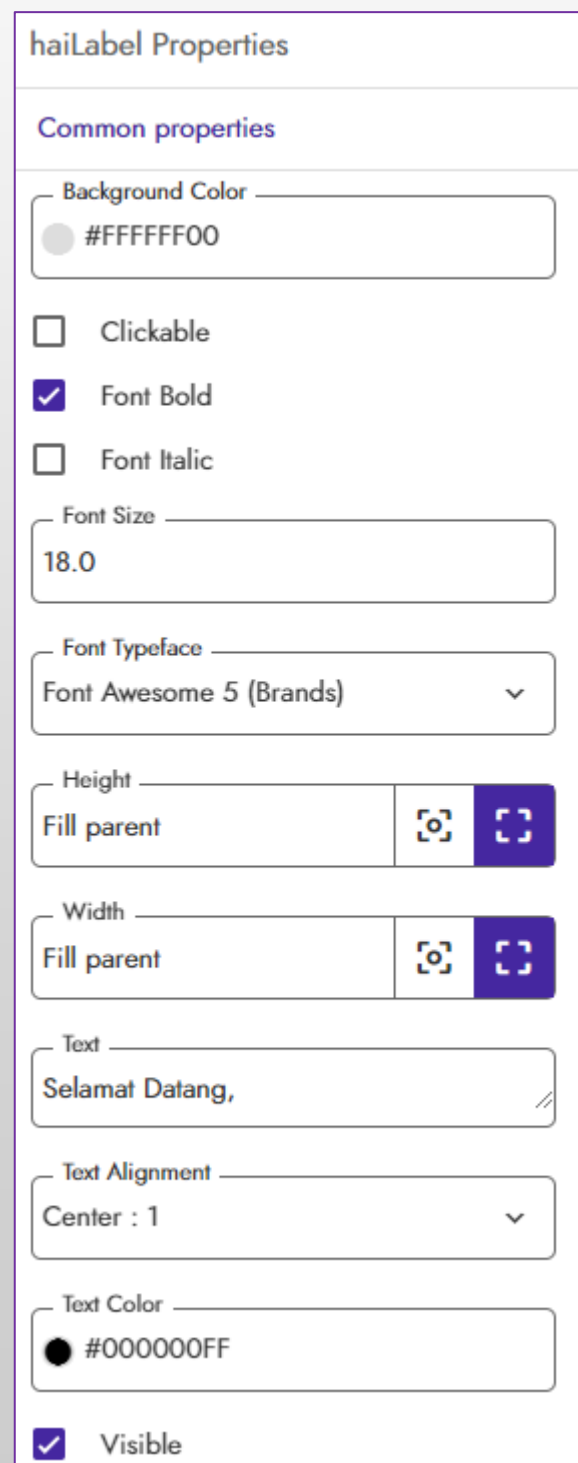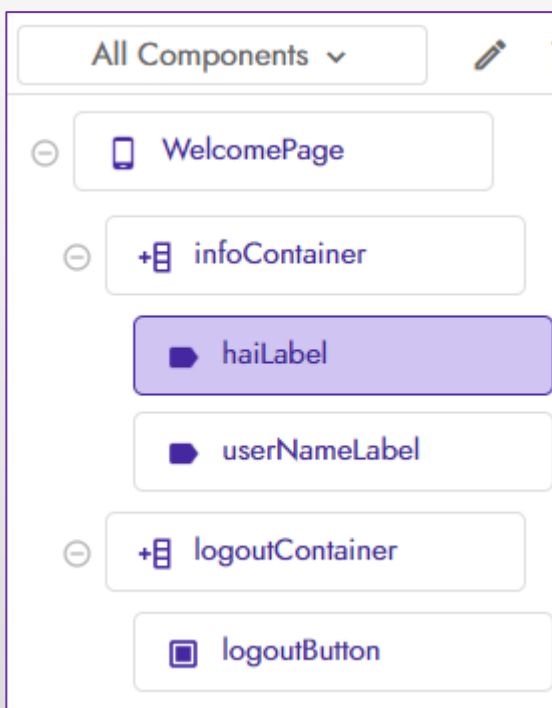Fill parent

Image
None

☑ Scrollbar

☐ Use Round Card

☑ Visible

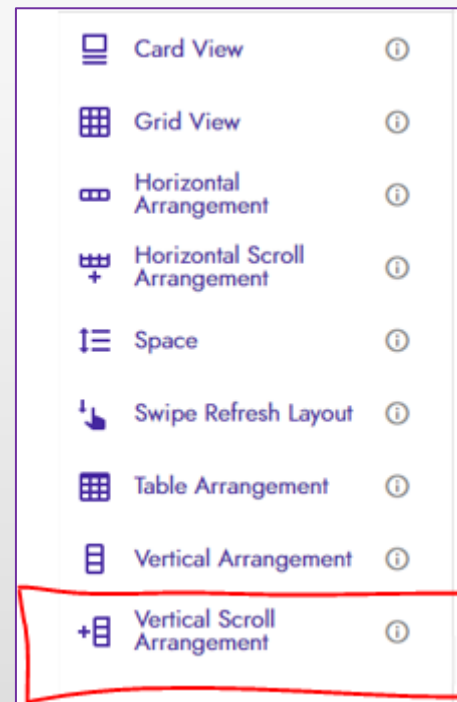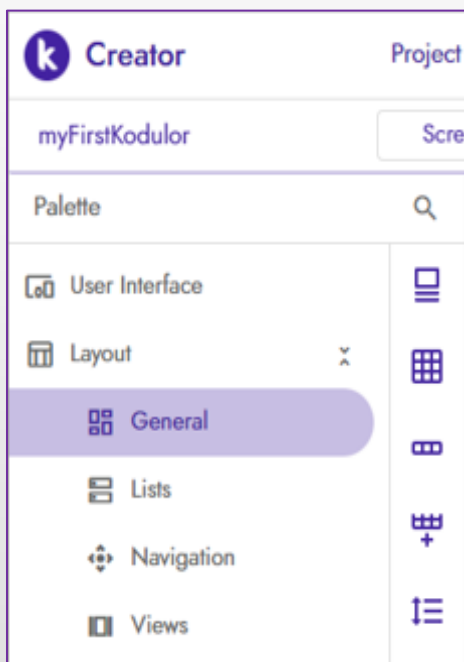☐ Is Card

Preparing The Second Screen

11. Choose layout palette from the left side, then choose User Interface and drag Button component into the logoutContainer in WelcomePage screen. Then, rename the button component to logoutButton and setting the logoutButton properties.

All Components ⌄	✎

- ⊖ 📱 WelcomePage
  - ⊖ +🗄 infoContainer
    - 🏷 haiLabel
    - 🏷 userNameLabel
  - ⊖ +🗄 logoutContainer
    - ▣ logoutButton

logoutButton Properties

Common properties

Background Color
● #9C27B0FF

☑ Enabled
☑ Font Bold
☐ Font Italic

Font Size
18.0

Font Typeface
Font Awesome 5 (Brands) ⌄

Height
7%

Width
50%

Image
None ⌄   ☁   ⬀

Shape
Rounded ⌄

Text
Logout

Text Alignment
Center : 1 ⌄

Text Color
○ #FFFFFFFF

☑ Visible
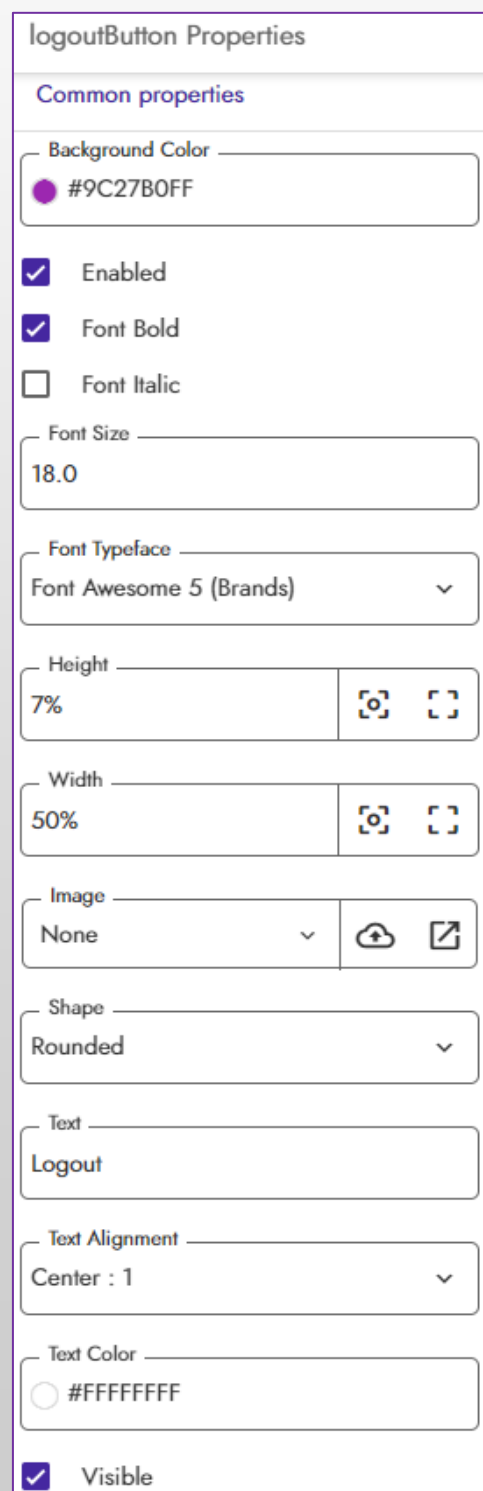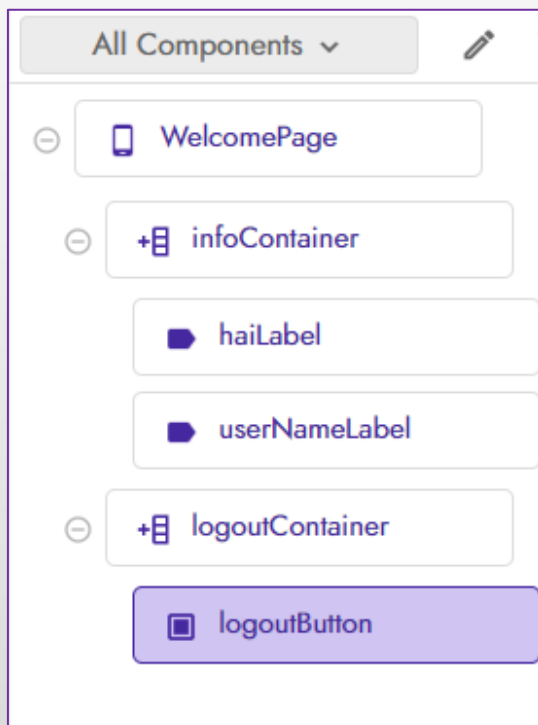
Preparing The Block

1. Coding for Login process will be write in Viewer Block of Screen1.

| Screen1 ⊙ | Add ⊕ | Copy ⊙ | Remove ⊗ | 🖼 | ⚙ | Designer | Blocks |
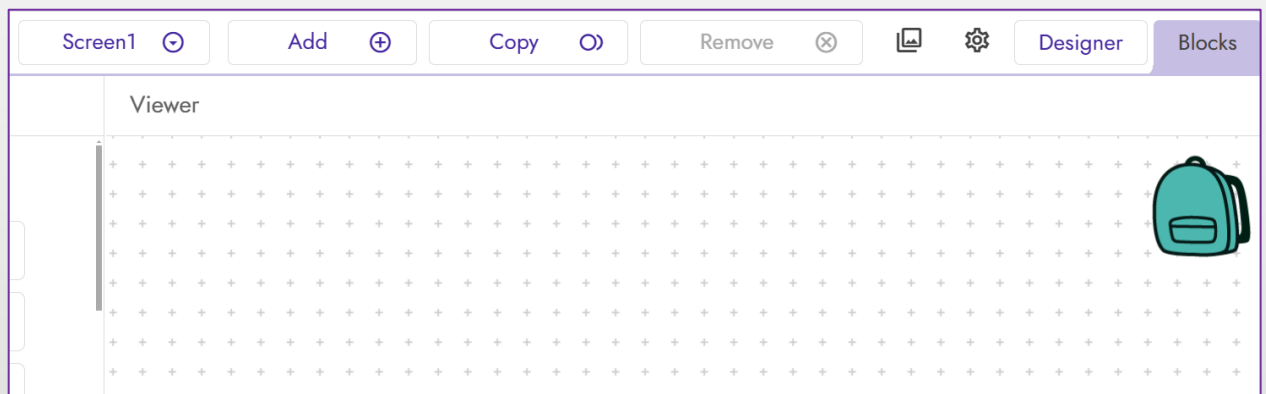
Viewer

2. Choose **THREE (3)** following blocks from Variables blocks, then drag to viewer.

initialize global name to

3. Choose **THREE (3)** following blocks from Lists blocks, then drag to viewer.

create empty list

Preparing The Block
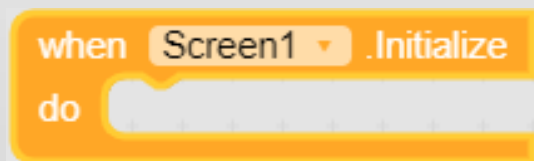
4. Initialize each block with the following values,
   then set each initialized block with following Lists blocks.

5. Choose following blocks from Screen1 blocks, then drag to viewer.

6a. Choose following blocks from Web1 blocks, then drag to viewer.

6b. Choose following blocks from Text blocks, then drag to viewer.

Preparing The Block

6c. Choose **TWO (2)** following blocks from Text blocks, then drag to viewer. Put the link of Sheet Excel in first block and the following syntax in second block.

" https://docs.google.com/spreadsheets/d/1BRbr7sOs... "

" /export?format=csv "
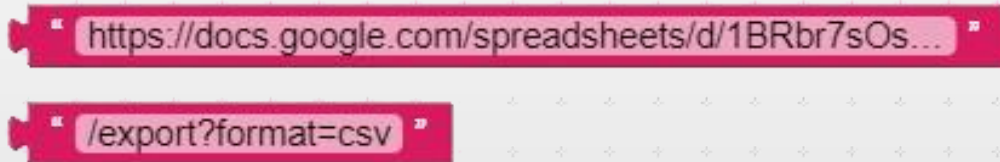
6d. Choose following blocks from Web1 blocks, then drag to viewer.

call Web1 ▾ .Get
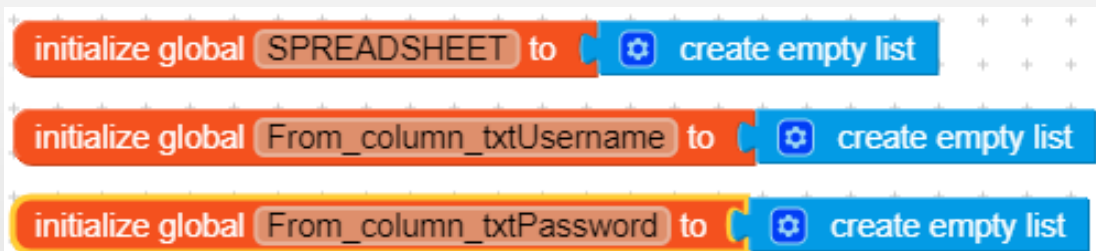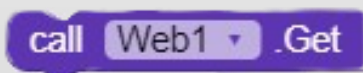
7. Complete Code when initialize Screen1 by calling link Sheet Excel *(refer setting database utilities – page 65)*

when Screen1 ▾ .Initialize
do set Web1 ▾ . URL ▾ to join " https://docs.google.com/spreadsheets/d/1BRbr7sOs... "
                                   " /export?format=csv "
    call Web1 ▾ .Get

Preparing The
STORAGE

Preparing The Storage

To Store Data to Tiny_DB1 Storage   1

1a. Choose following block from Web1 blocks drag to Viewer.

1b. Choose following block from Variables blocks and drag to Viewer then set global SPREADSHEET.

1c. Choose following block from Lists blocks drag to Viewer.

Preparing The Storage

1d. Choose following block from Variables blocks then drag to Viewer and get response Content.

1e. Choose following block from Procedures block and drag to Viewer.

1f. Choose following block from Procedures blocks, then drag to Viewer and changes procedures to STORE_TO_TINYDB.

80
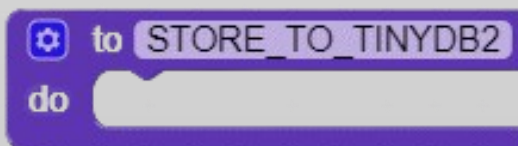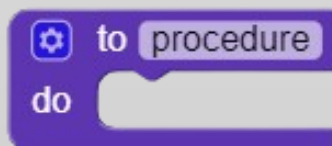
Preparing The Storage

1g. Choose following block from Lists blocks, then drag to Viewer. Duplicate
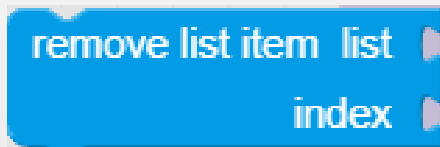
1h. Choose following block from Variables blocks then drag to Viewer and get global SPREADSHEET.

1i. Choose following block from Math blocks then drag to Viewer and set value 1.

Preparing The Storage

1j. Combine the following blocks.
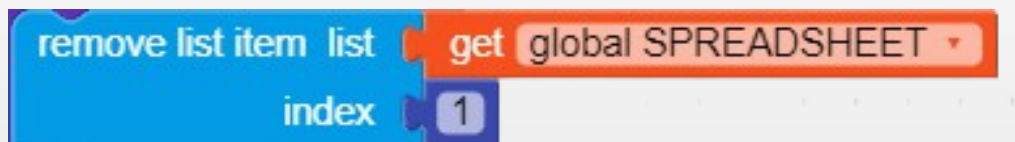
1k. Choose following block from Control blocks then drag to Viewer and Get global SPREADSHEET
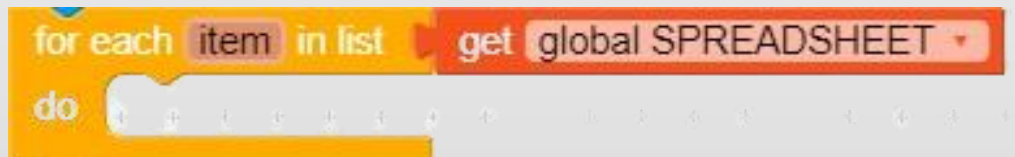
1l. Choose following block from Lists blocks then drag to Viewer and set get global From_column_txtUsername
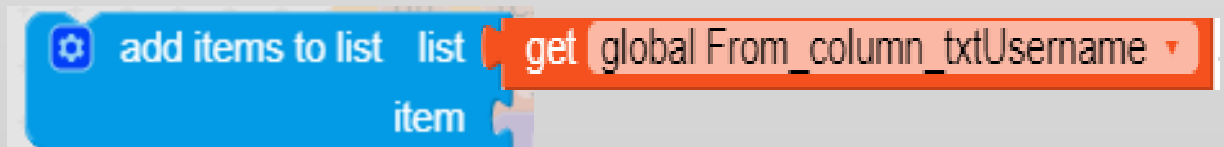
Preparing The Storage

1m. Choose and combine the following blocks.

1n. Full code for retrieving both columns name from link Sheet

Preparing The Storage

1o. Full code for reading data in each line of row from link Sheet Excel

Preparing The Storage

To Store Data to Tiny_DB1 Storage — 1

1p. Complete codes To Store Data to Tiny_DB1 Storage

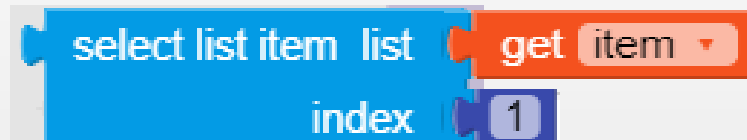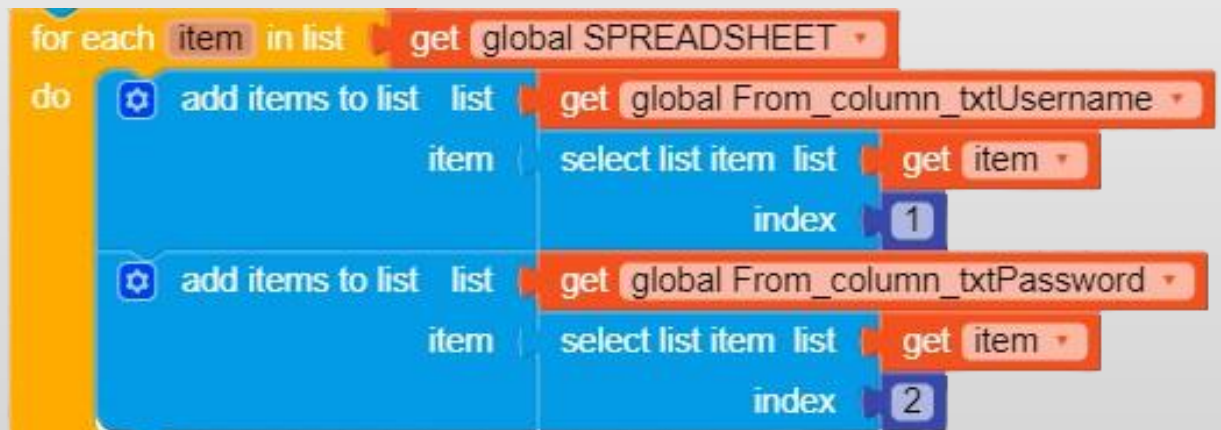
```
to STORE_TO_TINYDB
do  remove list item list  get global SPREADSHEET
                    index  1
    for each item in list  get global SPREADSHEET
    do  add items to list  list  get global From_column_txtUsername
                           item  select list item list  get item
                                              index  1
        add items to list  list  get global From_column_txtPassword
                           item  select list item list  get item
                                              index  2

    for each number from  1
                      to  length of list list  get global SPREADSHEET
                      by  1
    do  call Tiny_DB1 .Store Value
                      tag  select list item list  get global From_column_txtUsername
                                        index  get number
             value To Store  make a list  select list item list  get global From_column_txtPassword
                                                       index  get number
```

Preparing The Storage

Code For Login Process 2

2a. Complete codes for Login Process to allow user to access Welcome Page when username and Password exits in link Sheet Excel.


```
when loginButton . Click
do  if   is empty   txtUsername . Text .
    then  call Notifier1 . .Show Alert
                    notice   " Please Fill In Username "
    else  if   not   contains text   call Tiny_DB1 . .Get Entries
                          piece   txtUsername . Text .
          then  call Notifier1 . .Show Alert
                          notice   " Wrong Username!! "
          else  if   is empty   txtPassword . Text .
                then  call Notifier1 . .Show Alert
                                notice   " Please Fill In Password!! "
                else  if   select list item  list   call Tiny_DB1 . .Get Value
                                                       tag   txtUsername . Text .
                                                       value If Tag Not There   " "
                                          index   1
                           = .   txtPassword . Text .
                      then  call Notifier1 . .Show Alert
                                      notice   " Success "
                            open another screen with start value  screenName   WelcomePage .
                                                                 startValue   txtUsername . Text .
                      else  call Notifier1 . .Show Alert
                                      notice   " Not Success "
```
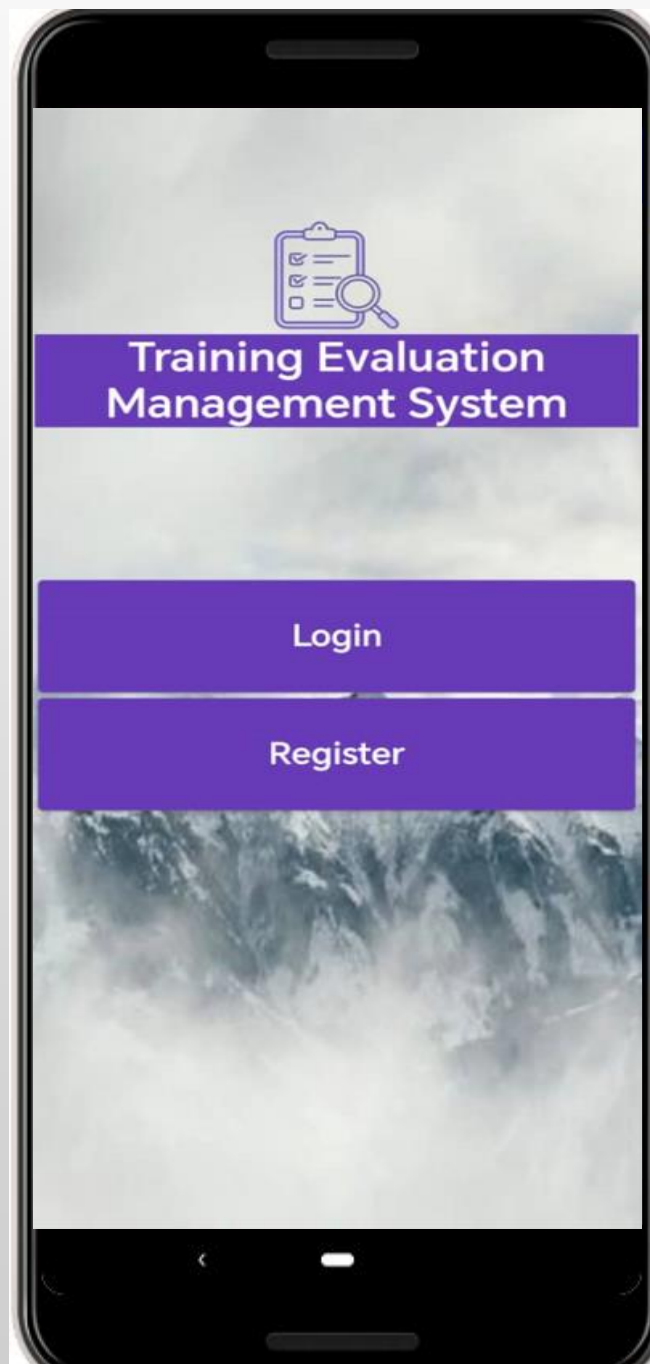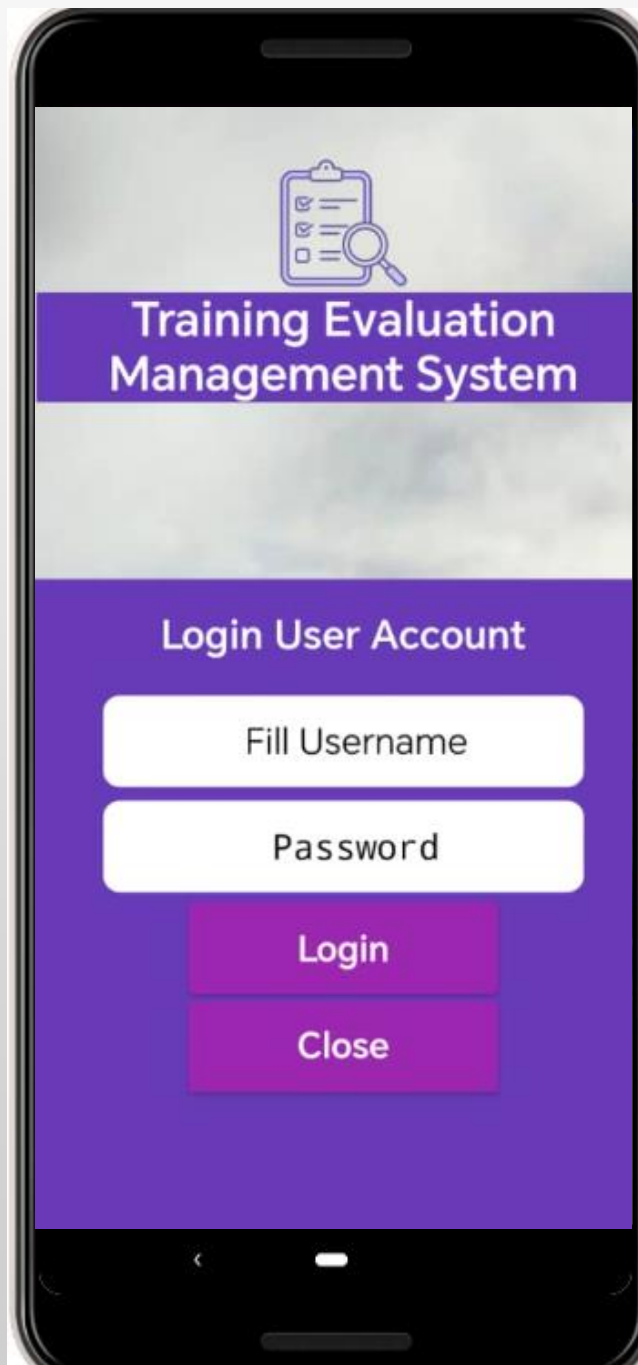
Successfully
BUILT
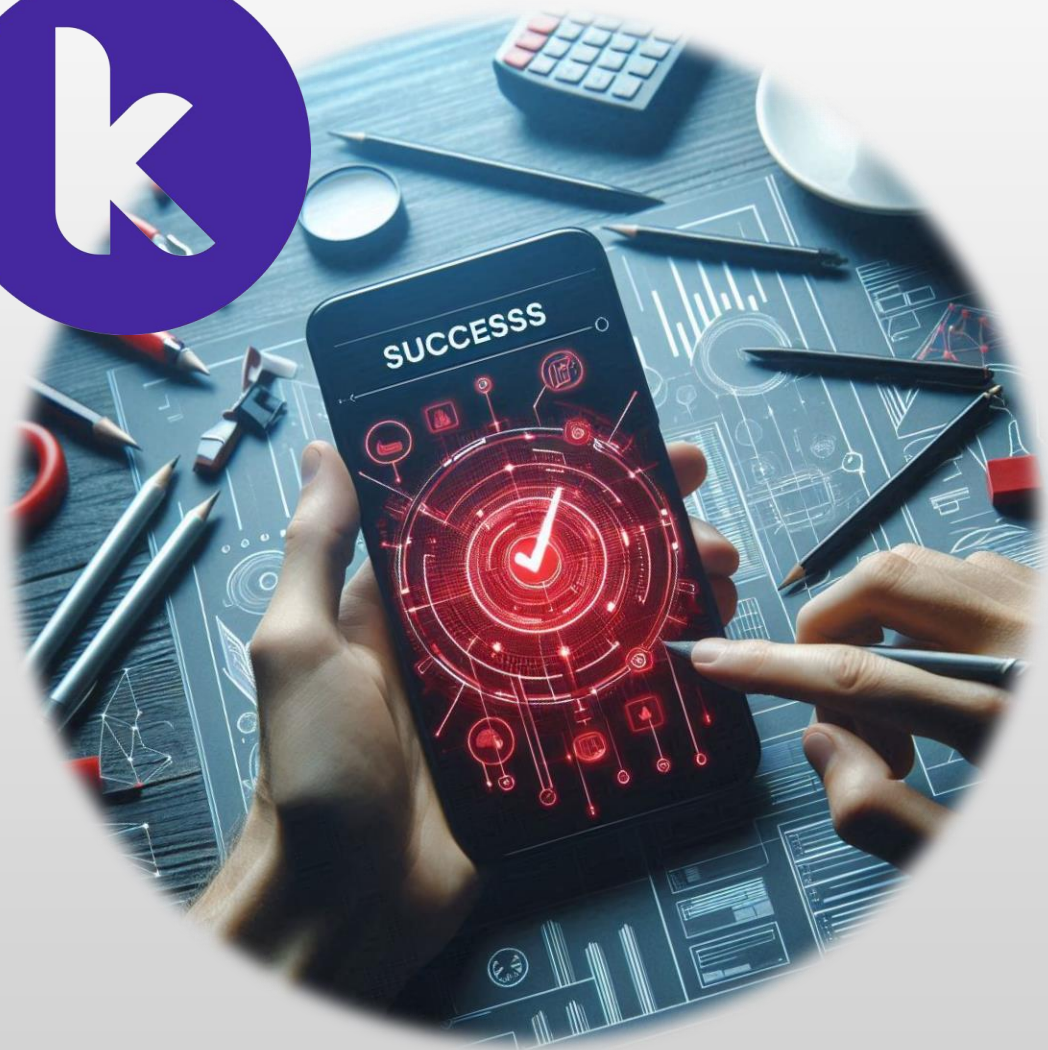
Application Successfully Built
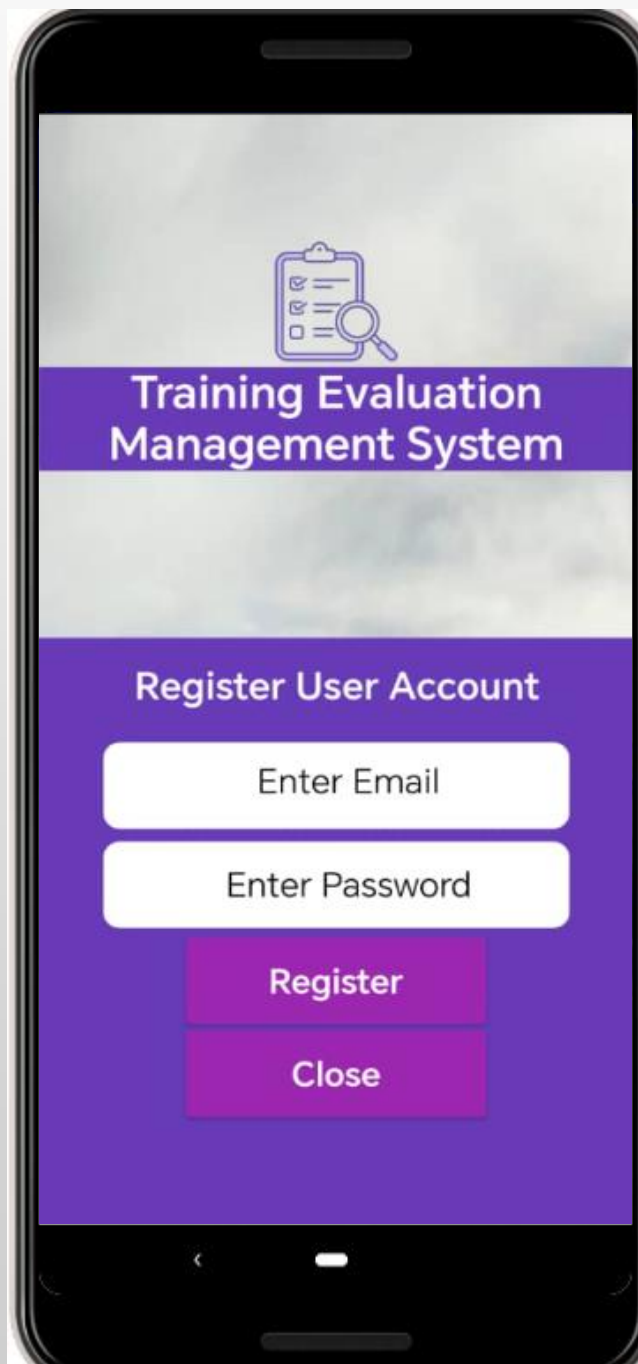
Application Successfully Built

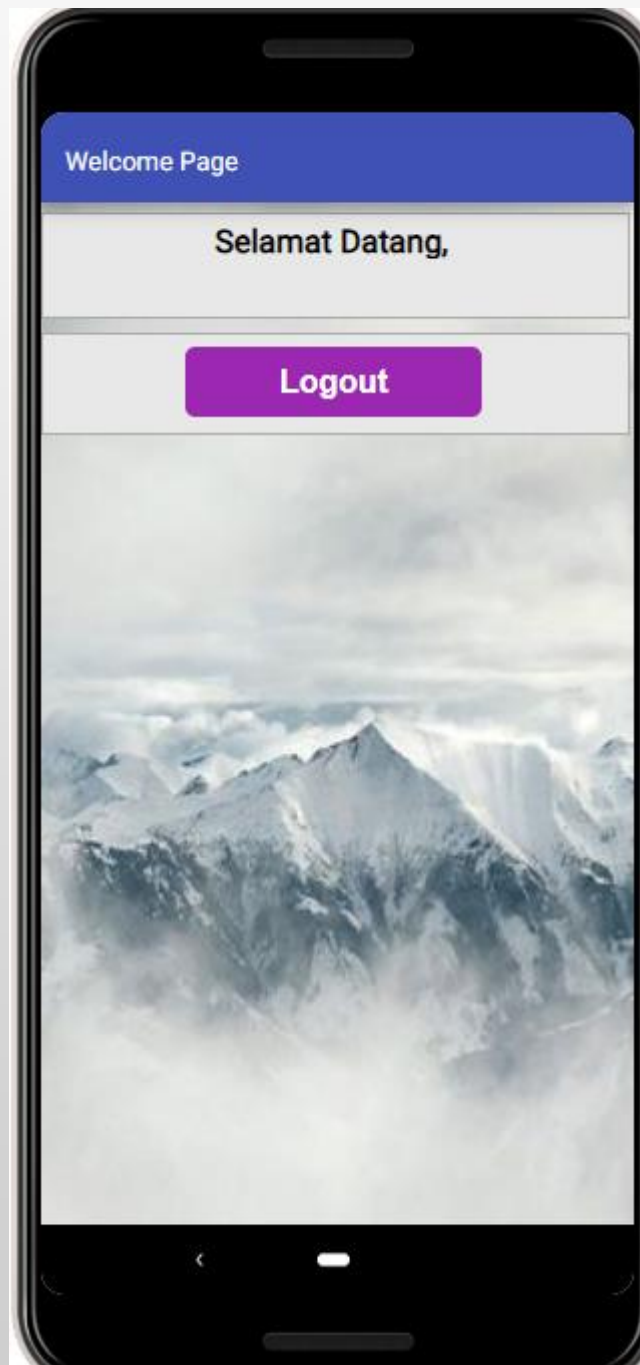Interface for Login   3

Application Successfully Built

Training Evaluation
Management System

Register User Account

Enter Email

Enter Password

Register

Close

Application Successfully Built

Notes

Kodular is a user-friendly drag-and-drop mobile app development platform designed for creating Android applications without the need for coding. It provides an intuitive interface where users can design app layouts by simply dragging and dropping various components. With its visual programming environment, users can create app functionalities by connecting blocks, eliminating the need for writing code manually. Kodular offers a wide range of components, including buttons, text boxes, sensors, and more, enabling users to build feature-rich apps easily. Additionally, Kodular facilitates real-time testing through its companion app, allowing developers to instantly see how their apps behave on Android devices. The platform also supports the use of extensions for incorporating advanced functionalities into apps. Being a cloud-based platform, Kodular allows users to access and work on their projects from any device with an internet connection. It offers comprehensive documentation and active community support, making it suitable for both beginners and experienced developers looking to create Android apps quickly and efficiently.

KODULAR CREATOR FOR BEGINNER