

USER INTERFACE AND USER EXPERIENCE (UI/UX)



What is our GOAL for this MODULE?

We learned to apply professional UI Design skills enhancing the UX through various design tools and graphics while developing high definition Apps.

What did we ACHIEVE in the class TODAY?

- Developed a Professional Personal Native App.

Which CONCEPTS/ CODING BLOCKS did we cover today?

- **UX: User Experience:** This includes the process of enhancing customer satisfaction by improving the design, usability, ease of use, and pleasure provided in the interaction between the customer and the product.
- **UI: User Interface:** It complements the look and feel, the presentation and interactivity of a product. This means how well your app is designed in terms of colors, shapes etc.

How did we DO the activities?

We made 1 screen named **PROFILE** and made a header which we should follow for all other classes respectively.

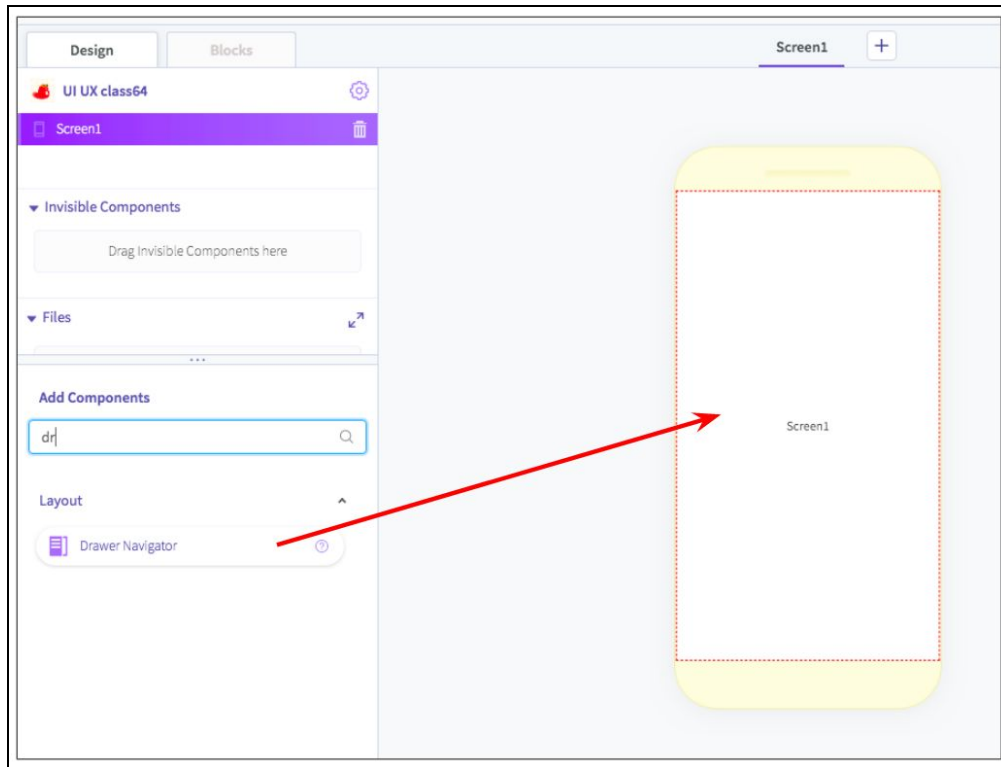
Flow for building the app:

1. Add drawer Navigation.
2. Add the screen inside the drawer navigation.
3. Add components and style the screen.

Let's start.

1. Add drawer Navigation

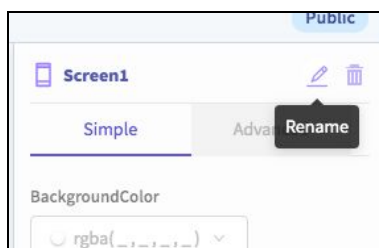
- Drag and drop the drawer navigation from component to the app.



- To view the drawer navigation swipe from left to right on your mobile
- Now click on screen1 on the right-hand side.



- On the right-hand side change the name of screen1 to Profile.



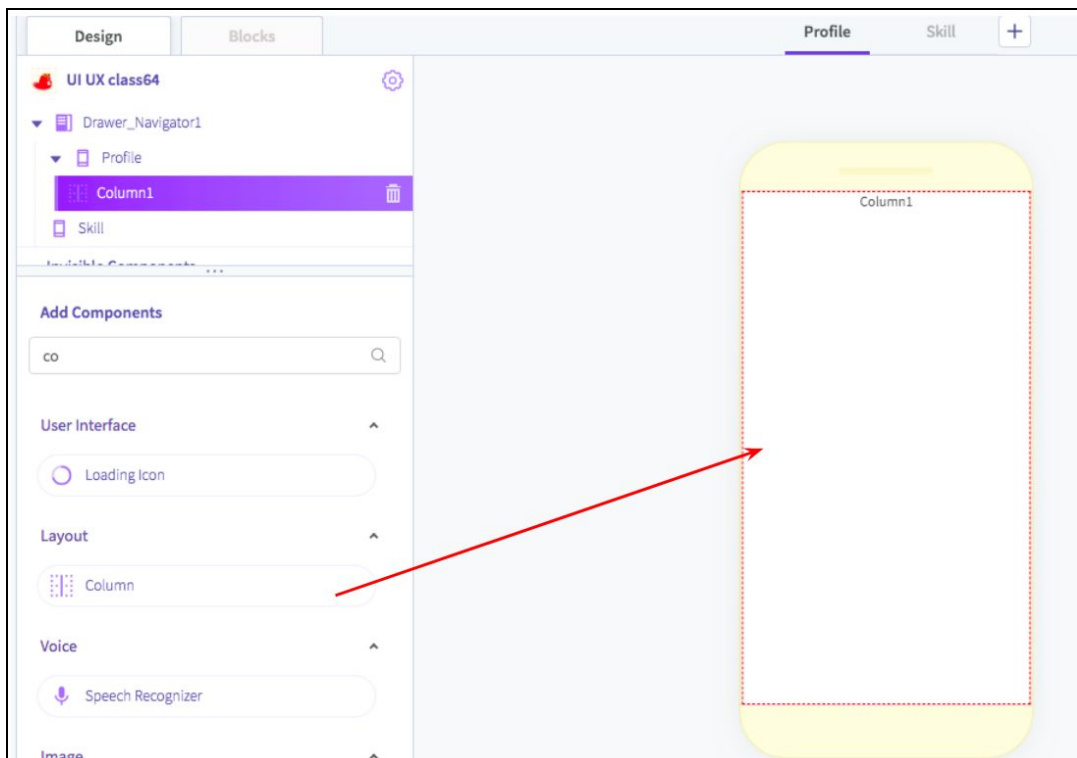
2. Put these screens inside drawer navigation.
 - Drag the Profile screen and drop it inside the drawer navigation.



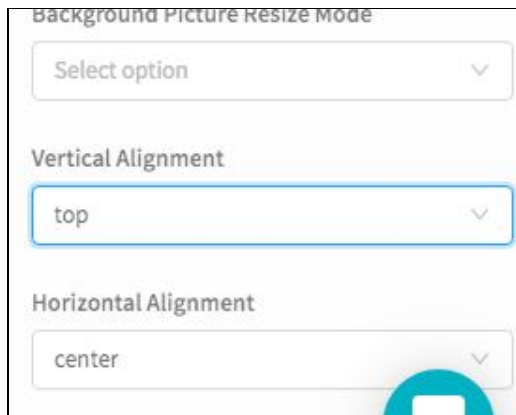
- Now do a live test on the phone and swipe from left to right and drawer navigation will look like this:



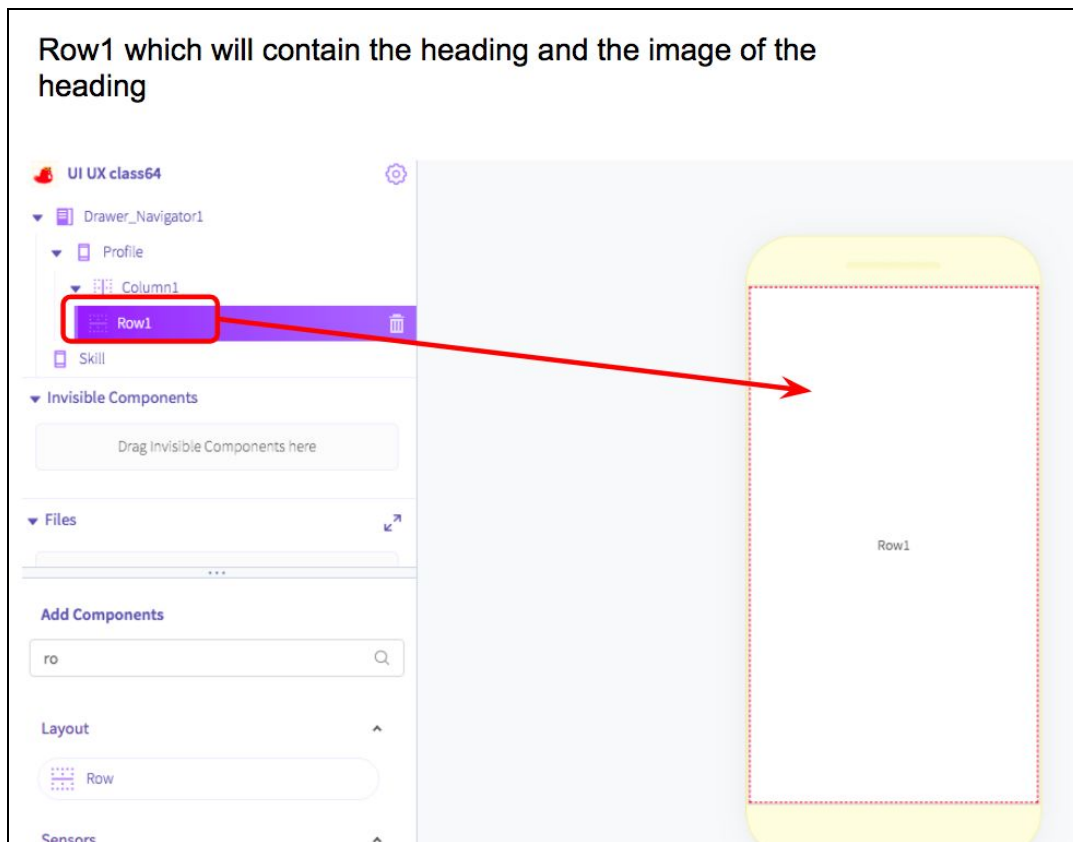
3. Add components and style in profile section
 - First we will drag and drop the column component inside Profile Screen and will put all the components inside this column.



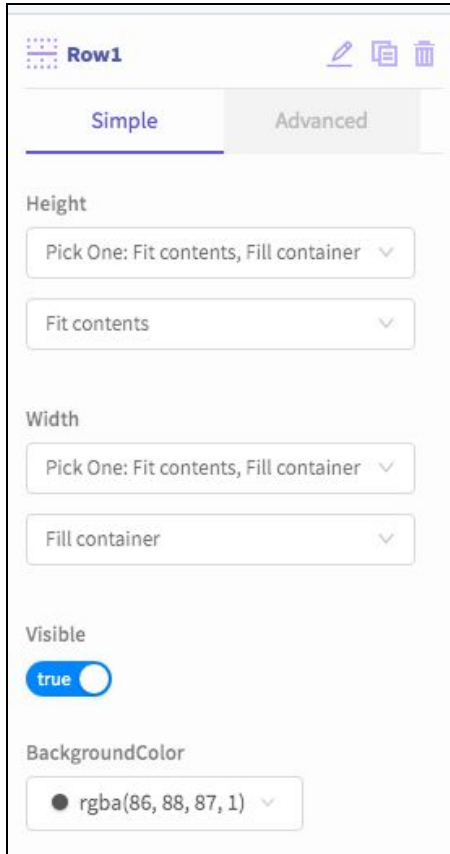
- On the right-hand side, there is the style bar scroll down and find vertical alignment.
 - We are selecting vertical alignment as top, because we want every component inside the column to start from the top.



4. Header Section: Remember, we need to repeat this section, again and again, to add a header on every screen.
 - Add row1 inside column1.



- Style row1: Inside Style Simple:



Row1

Simple Advanced

Height

Pick One: Fit contents, Fill container ▾

Fit contents ▾

Width

Pick One: Fit contents, Fill container ▾

Fill container ▾

Visible

true ☒

BackgroundColor

● rgba(86, 88, 87, 1) ▾



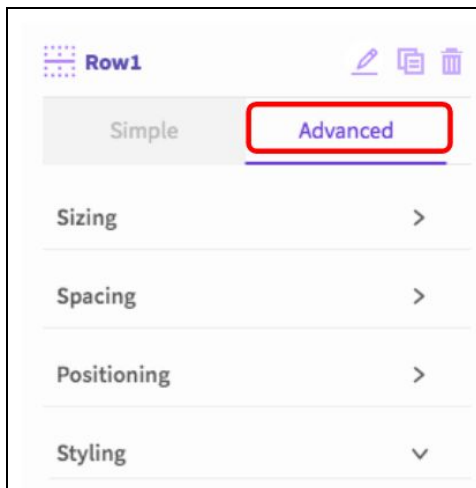
Horizontal Alignment

left ▾

Vertical Alignment

center ▾

- Inside Style Advanced:



Row1

Simple **Advanced**

Sizing >

Spacing >

Positioning >

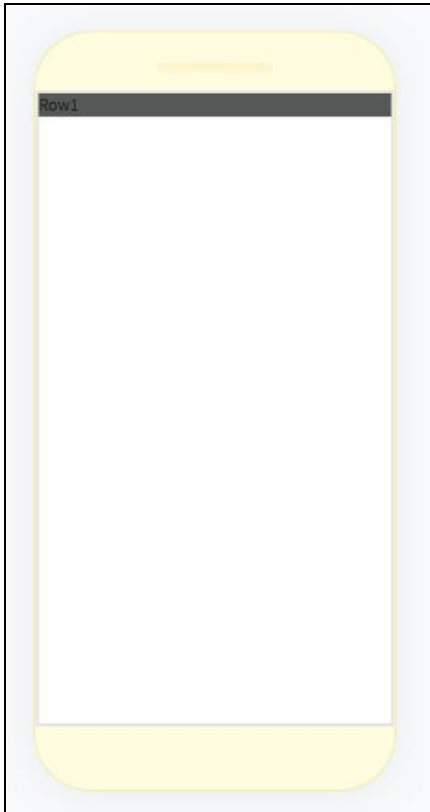
Styling ▾



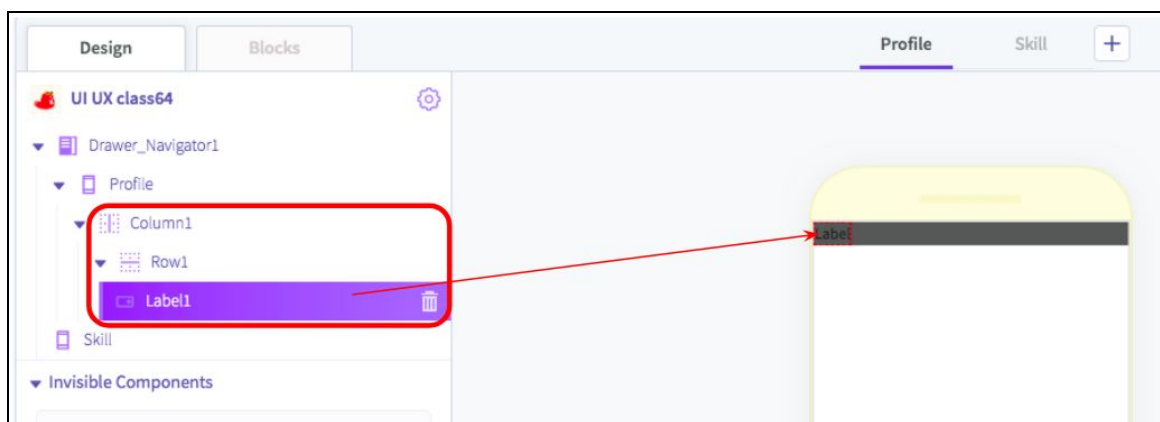
BackgroundColor

● rgba(86, 88, 87, 1) ▾

- The output of row1:



- Add Label1 for heading inside row1 and change its style and text.



- Inside Style simple:

Label1

Simple

Advanced

Text

My Profile

×

Margin

top

bottom

0 px

0 px

left

right

20 px

0 px

- Inside Style Advanced:

Label1

Simple

Advanced

Text Style

Color

rgba(255, 255, 255, 1)

▼

Font Family

Roboto

×

Font Size

19

Font Style

Select option

▼

Font Weight

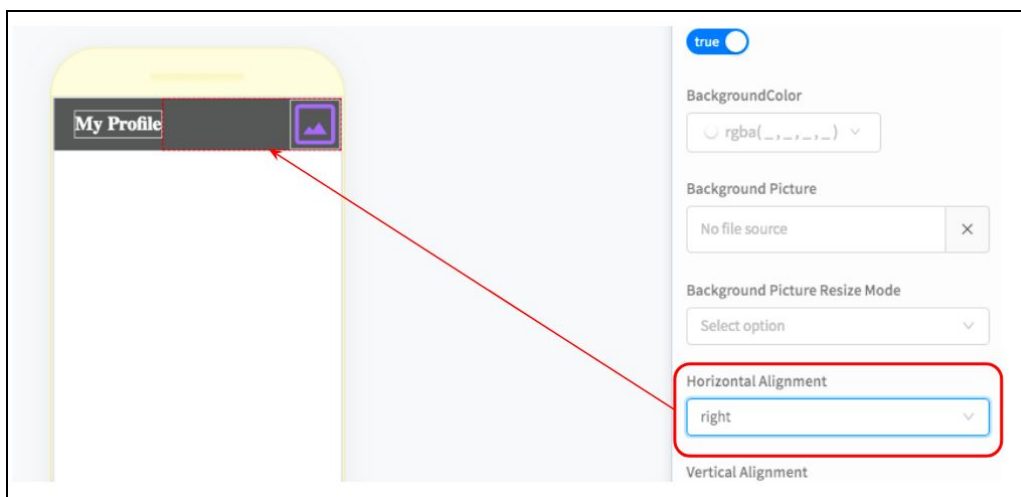
bold

▼

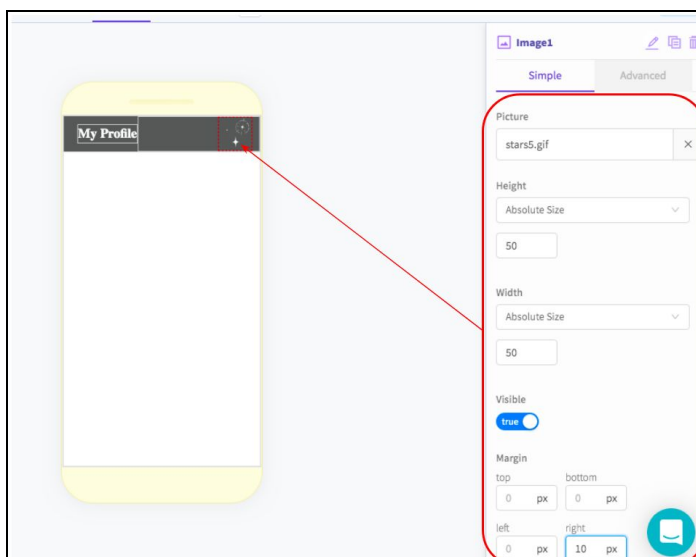
- Add row2 inside row1. Add Image inside row2. We are adding the image inside the row because we want the image to be aligned right. So we add the image inside the row and we make the row align right.



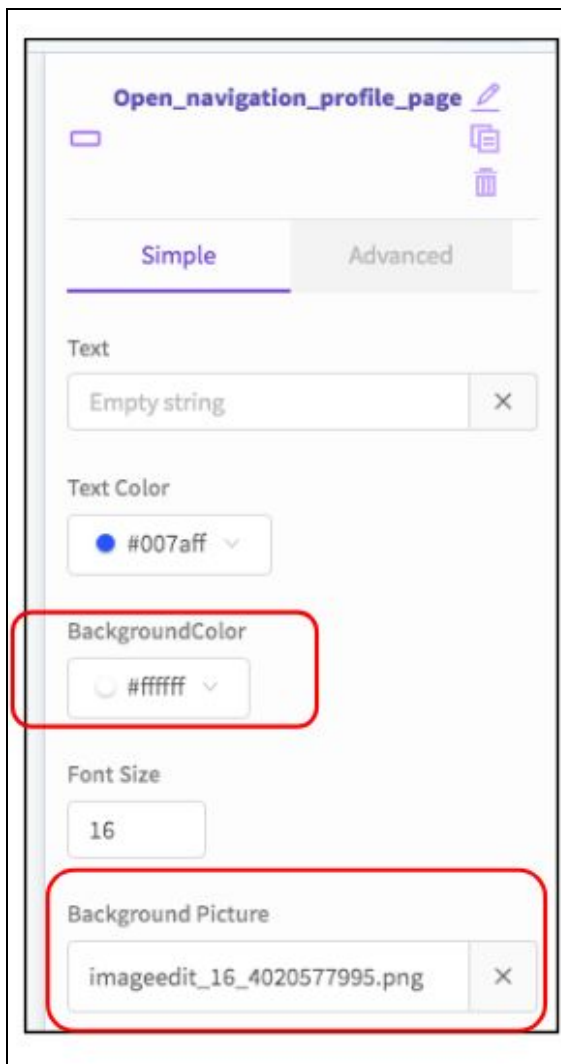
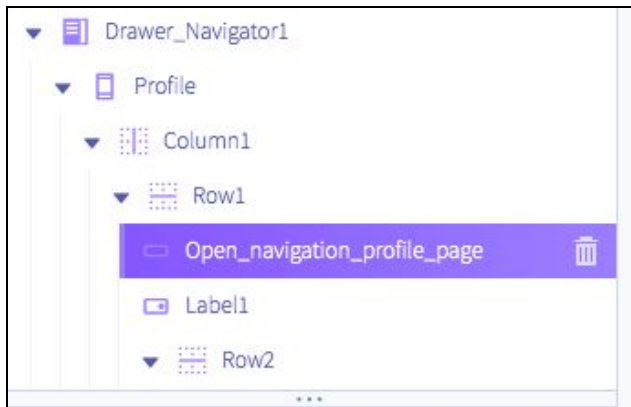
- Style row2: Align it to right so the image inside row2 will be on the right.



- Style and image source - Add the 'star' image you will get from the assets folder.



- Now add a button 'Open_navigation_profile_page' inside row1 before the Label1. Change its identification and style.



- Remove the background color and text color from the style of the button.
- Output

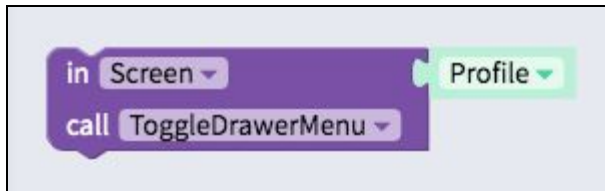


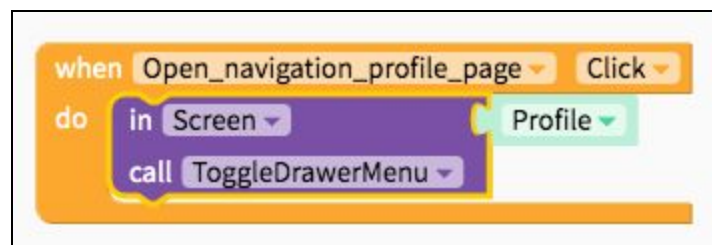
- Now let's add a function for this button. The function we need is - 'When this button is clicked the drawer navigation should open'.
 - Let's go in the block section of the screen and add on click function of the button:



- Now click on Any Component:



- Add  inside the button click function.



- Now when you click on the button, the drawer navigation will open.
- Add this button in all the screens where you add header.

6. Add row3 after row2. This row will help us to hold the image and details of the student.



- Style row 3. Style inside Simple:

Row3

Simple

Advanced

Height

Pick One: Fit contents, Fill container

Fit contents

Width

Pick One: Fit contents, Fill container

Fill container

Visible

true

BackgroundColor

● rgba(86, 88, 87, 1)

Horizontal Alignment

left

Vertical Alignment

center

Scrollable

☐ false

Margin

top

0 px

bottom

0 px

left

0 px

right

0 px

Padding

top

40 px

bottom

70 px

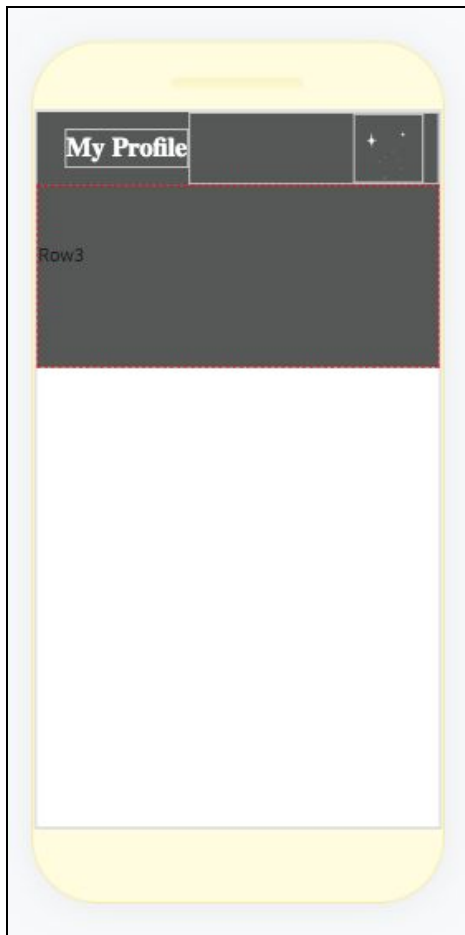
left

0 px

right

0 px

- After adding style, row3 will look like this -



7. Add image inside row3.

- Add the source to the image and style. You will get the source of the image from the assets folder.



- Style inside simple:

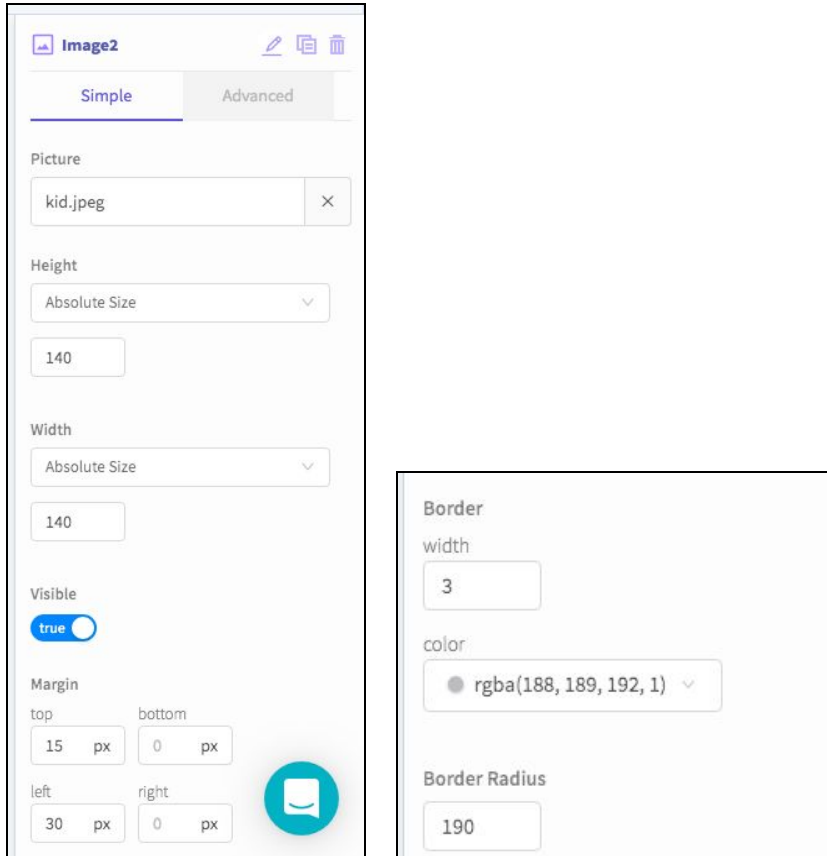


Image2

Simple Advanced

Picture
kid.jpeg

Height
Absolute Size
140

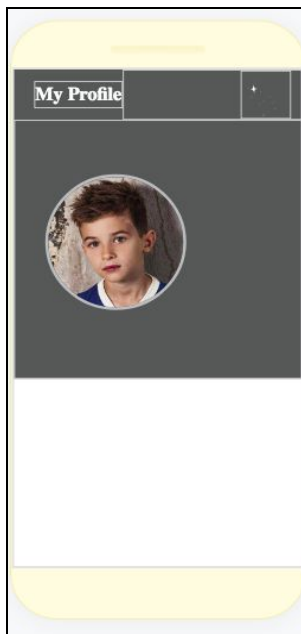
Width
Absolute Size
140

Visible
true

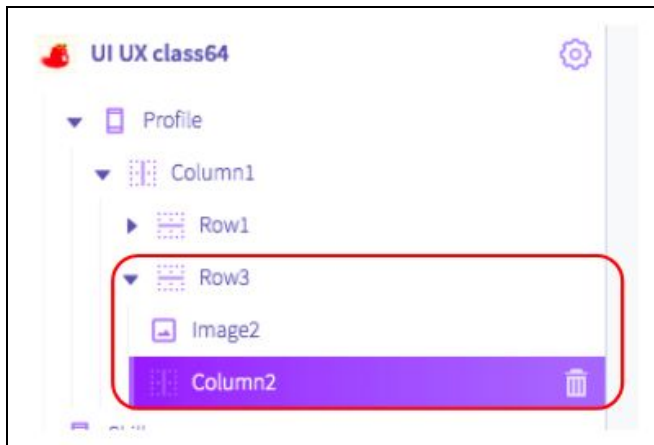
Margin
top: 15 px bottom: 0 px
left: 30 px right: 0 px

Border
width: 3
color: rgba(188, 189, 192, 1)
Border Radius: 190

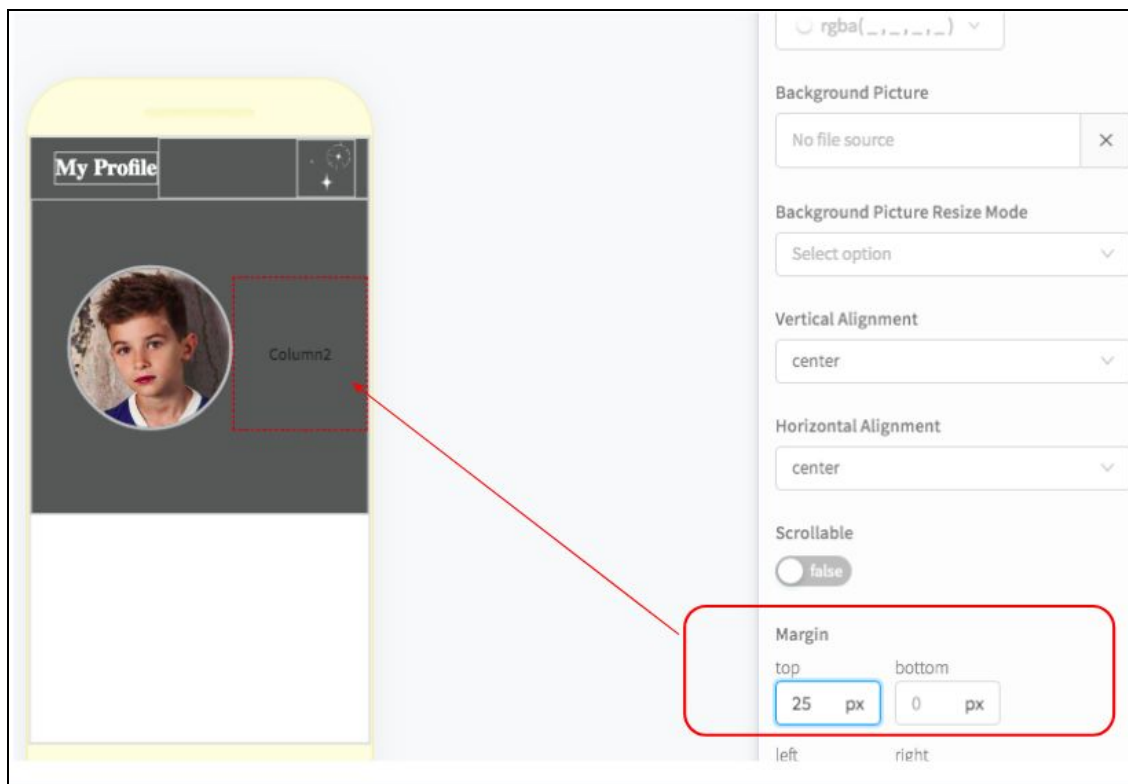
- The output of this image:



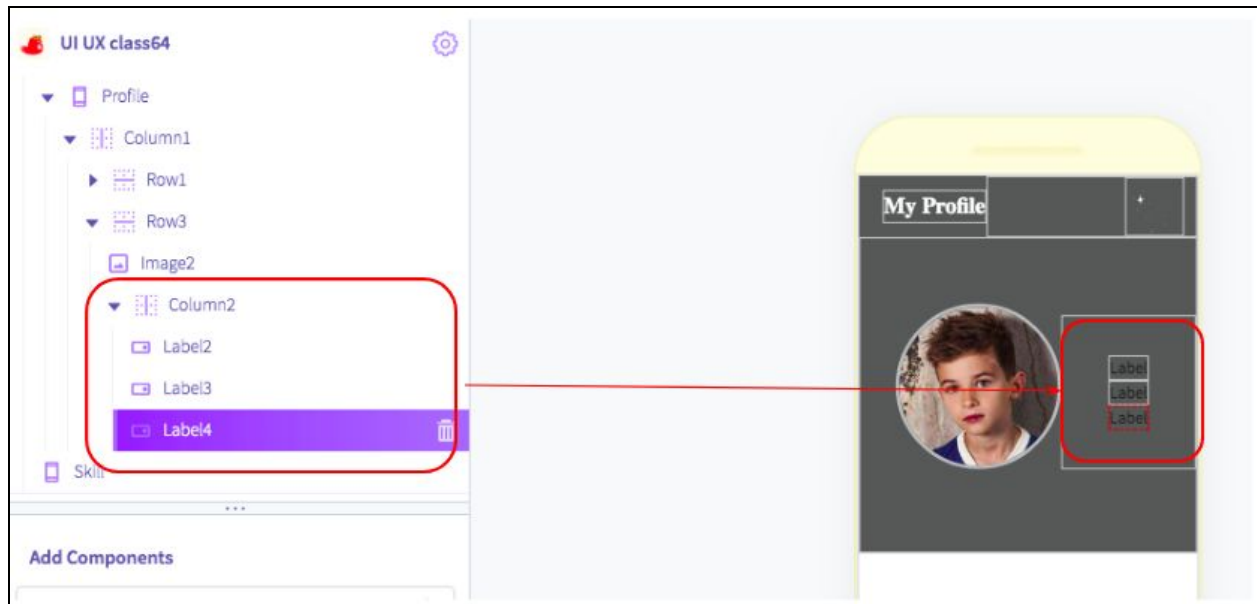
8. Now add a column inside row3 after image. This will help to display the personal details.



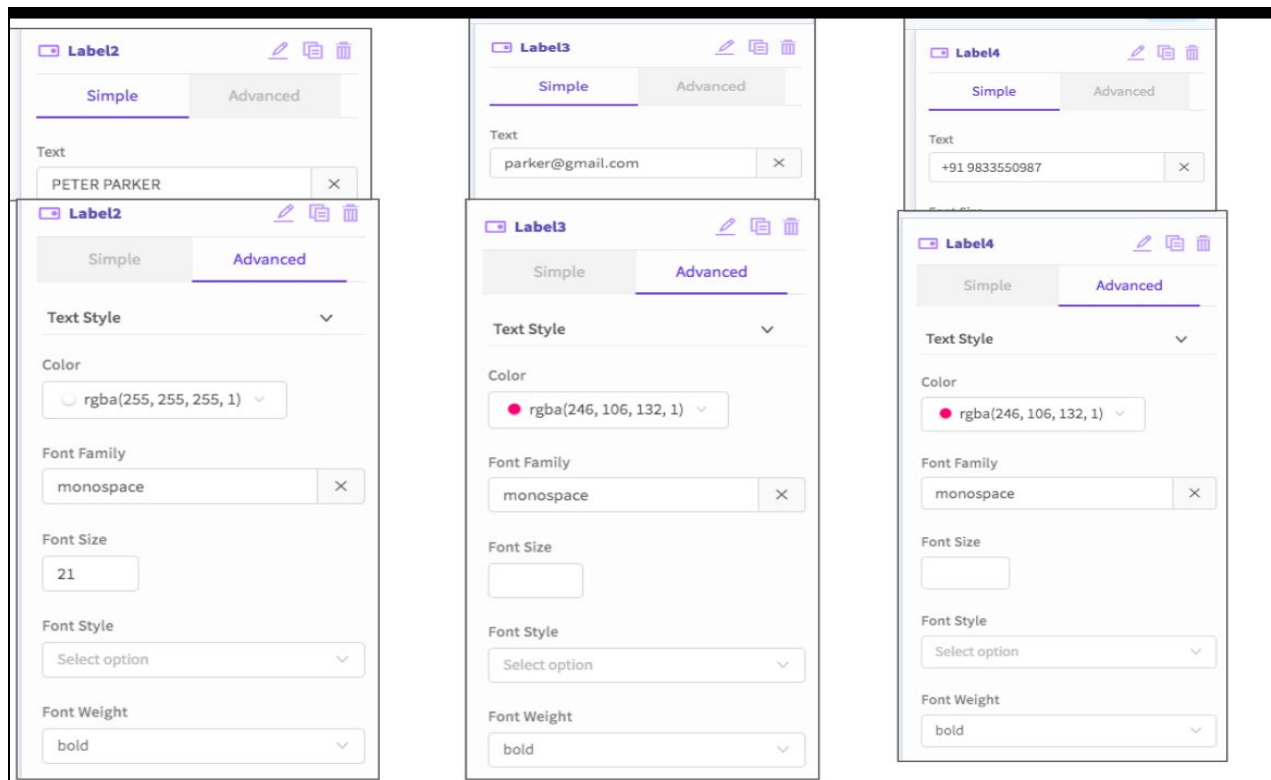
- Style this column. The style will be in simple.



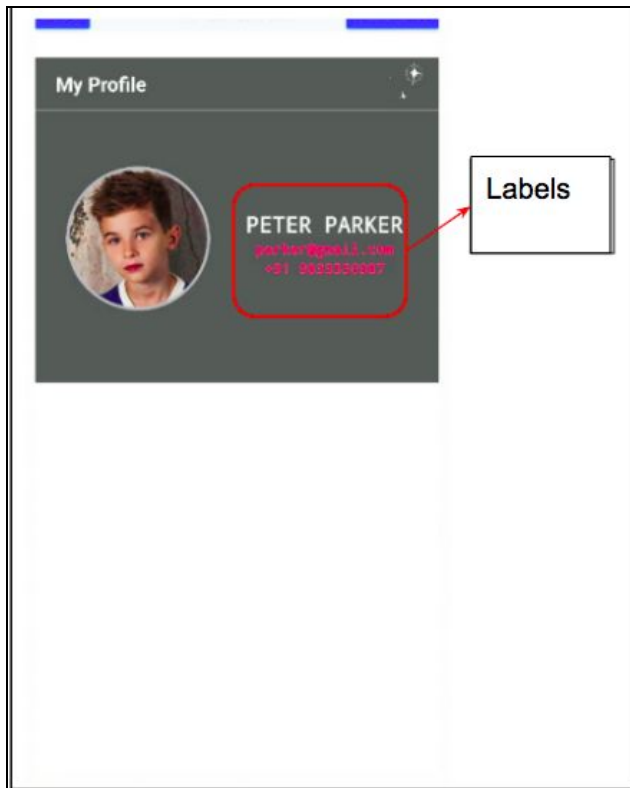
9. Now add 3 labels (Label2, Label3, Label4) inside the column2. Add text and style to each.



- Style: Label2 will have the name, Label3 will have the gmailId and Label4 will have the contact number.

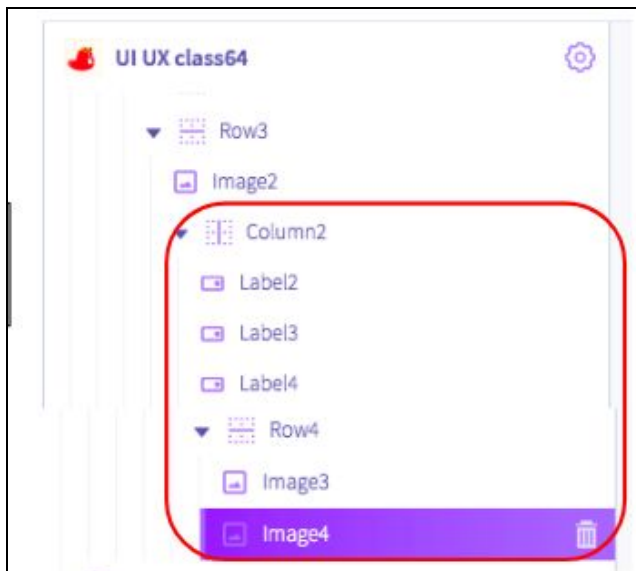


- The output of these labels:

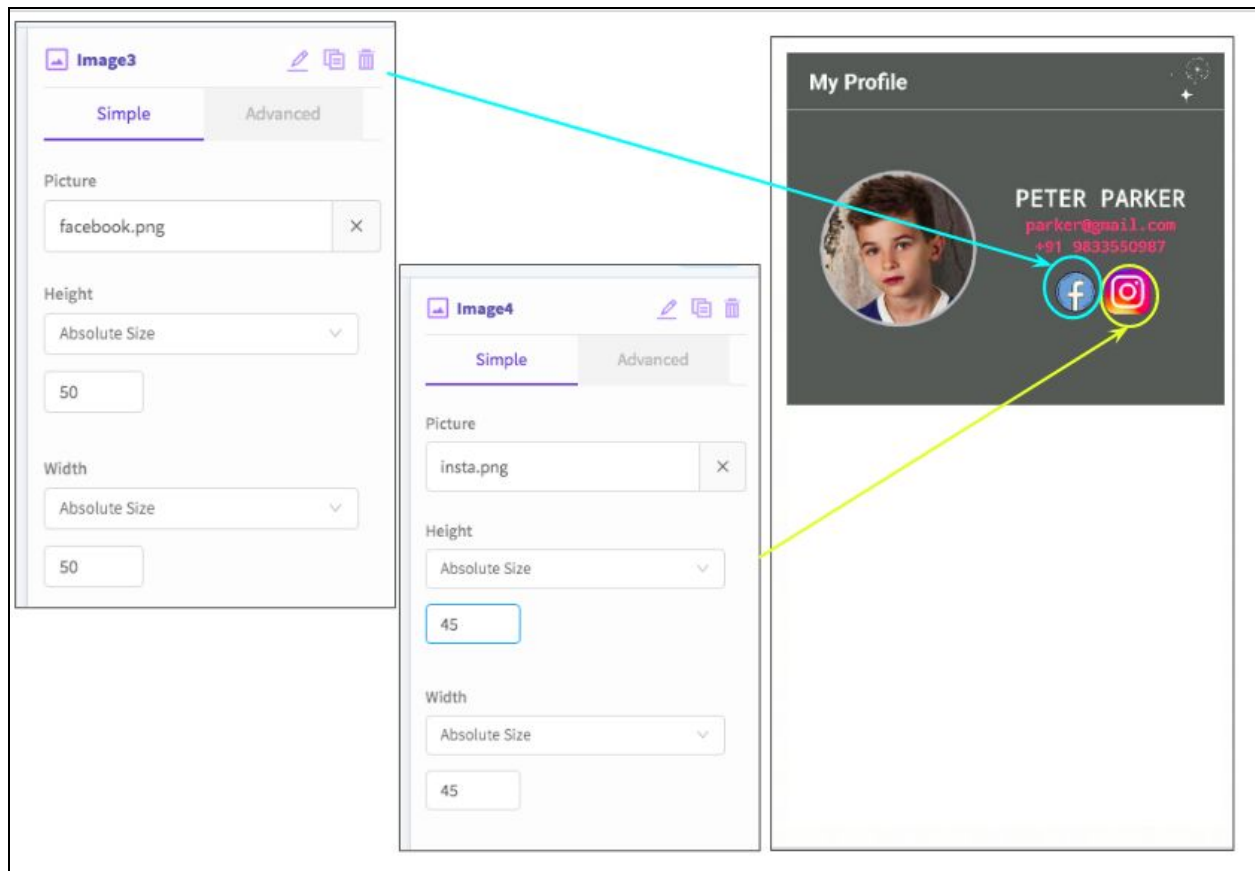


10. Now add a row, which will not have any style and will hold the social media images.

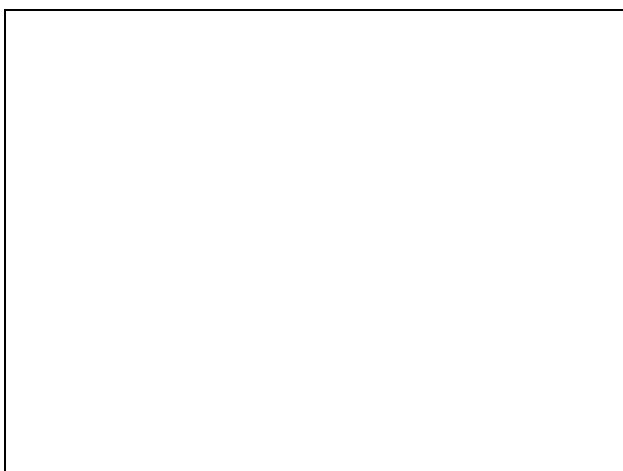
- Add 2 images inside this row.



- Add style and image source to these images.






11. Now add one more row (Row5) after row2. This row will contain one animation and one label.



- Style this row in simple:

Row5

Simple

Advanced

Height

Pick One: Fit contents, Fill container

Fit contents

Width

Pick One: Fit contents, Fill container

Fill container

Visible




true

BackgroundColor

rgba(184, 184, 170, 1)

- Style in advanced:

Row5

Simple

Advanced

Sizing

>

Spacing

>

Positioning

>

Styling

>

BackgroundColor

rgba(184, 184, 170, 1)

Border

width

color

rgba(, , ,)

style

Select option

border radius

30

BorderRadii

topLeft

topRight

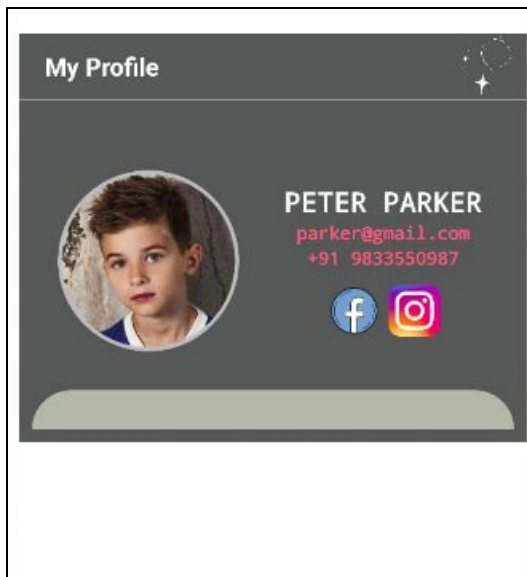
bottomLeft

0

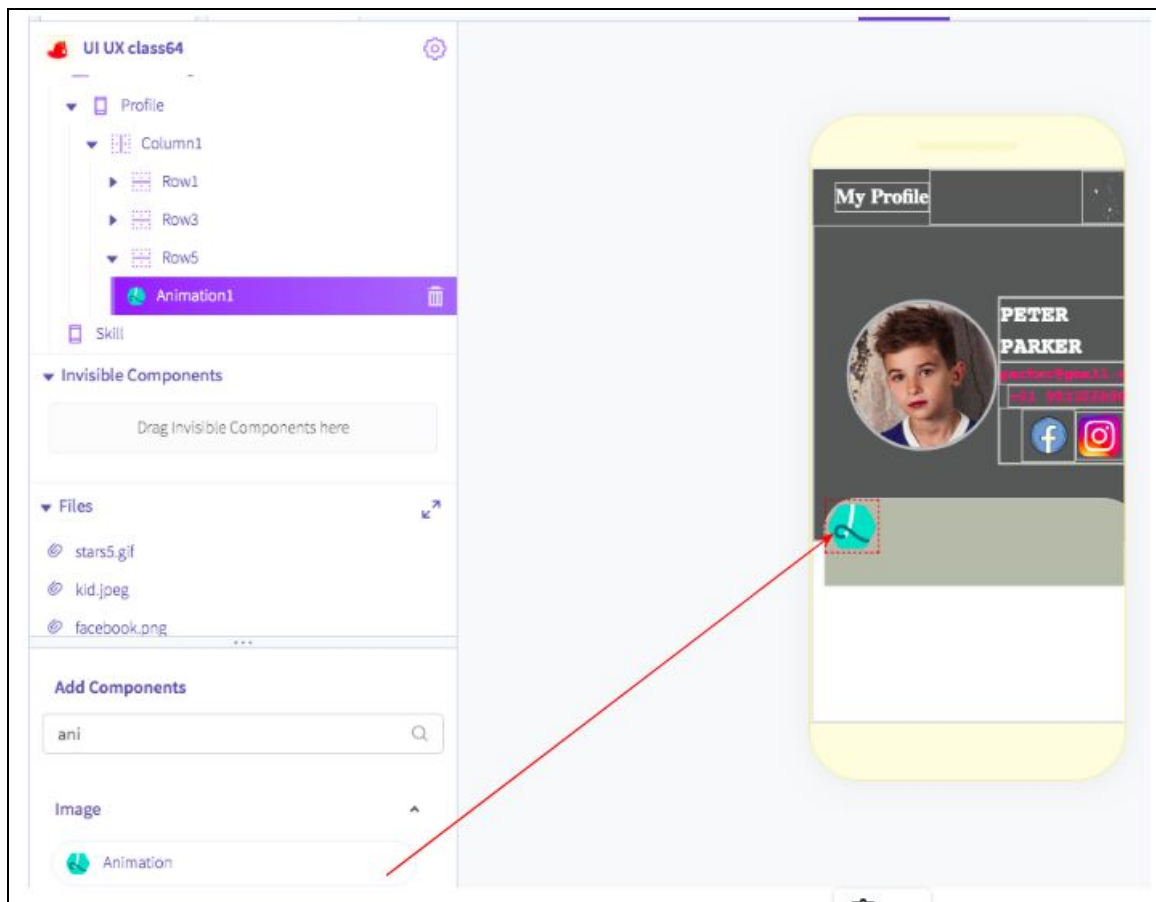
bottomRight

0

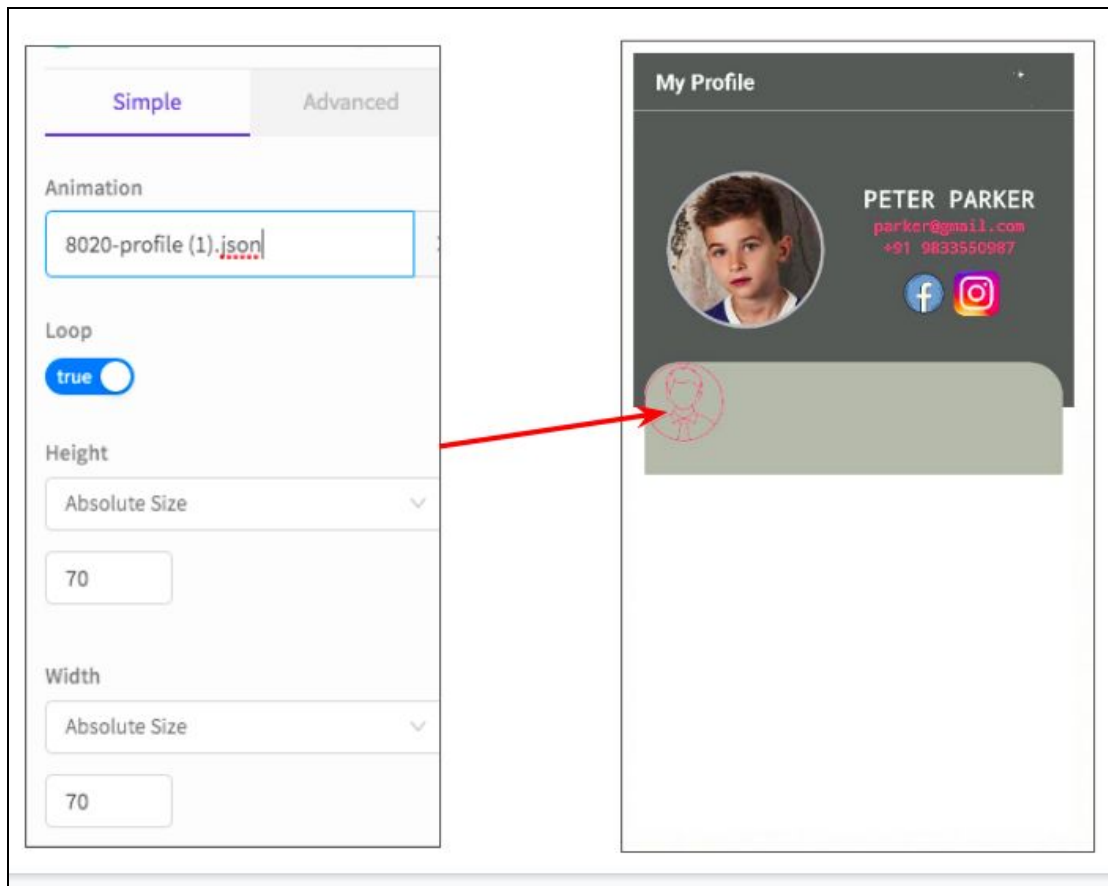
- Output after adding style to row5:



12. Now add animation inside row5. This animation can be anything.



- Now add source and style to this animation.



- Now add Label5 inside row5 after the animation and style this label






- Inside simple:


Margin

top	bottom
<input type="text" value="0"/> px	<input type="text" value="0"/> px
left	right
<input type="text" value="20"/> px	<input type="text" value="0"/> px


- Inside advance:

Label5   


Simple **Advanced**

Text Style 

Color


☐ rgba(255, 255, 255, 1) 

Font Family




Font Size

Font Style

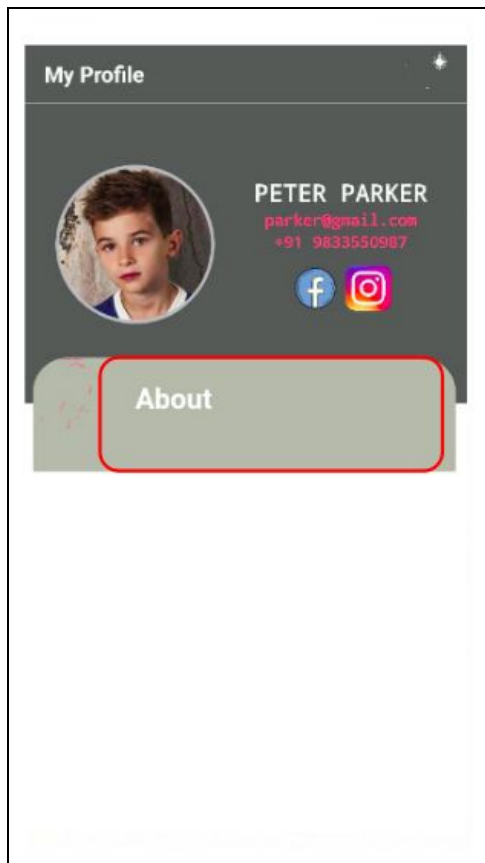


Font Weight

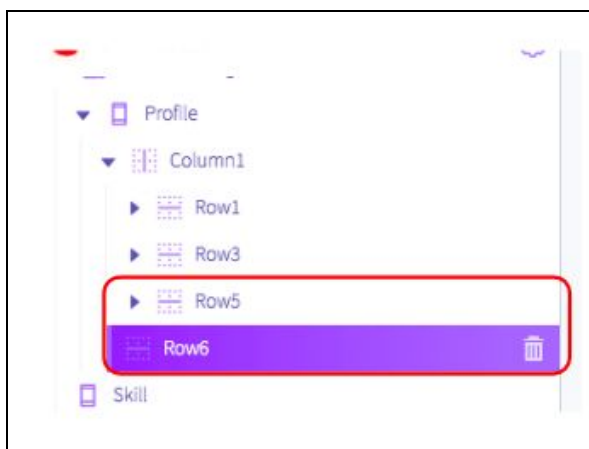


Text Shadow Offset

- Output after adding style to the label.



13. Now let's add the last row for this screen - Row6 after Row5.



- Add style to Row6. Style inside simple:

Row6

Simple Advanced

Height

Pick One: Fit contents, Fill container

Fill container

Width

Pick One: Fit contents, Fill container

Fill container

Visible

true

BackgroundColor

rgba(184, 184, 170, 1)

Horizontal Alignment

center

Vertical Alignment

top

Scrollable

false

Margin

top bottom

-35 px 0 px

left right

10 px 10 px

Padding

top bottom

0 px 30 px

left right

0 px 0 px

Border

width

color

rgba(____,____,____,____)

style

Select option

border radius

30

- Style inside advanced:

BorderRadii

topLeft	topRight
<input type="text"/>	<input type="text"/>
bottomLeft	bottomRight
<input type="text" value="0"/>	<input type="text" value="0"/>

- Add label inside Row6



- Now add style to this label.
Style inside simple:

Label6

Simple Advanced

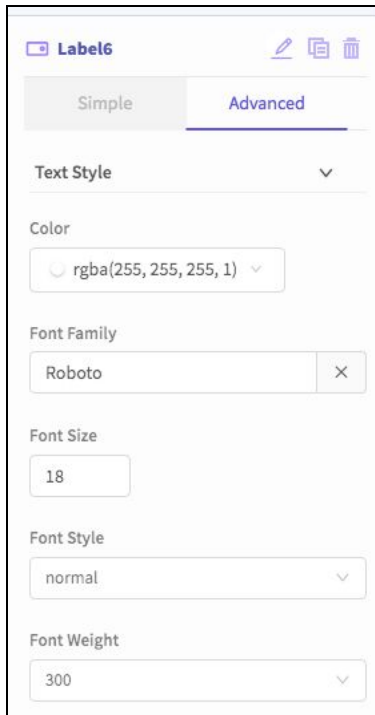
Text

Professional Snapshot: 15 years o ×

Padding

top	<input type="text" value="20"/> px	bottom	<input type="text" value="0"/> px
left	<input type="text" value="20"/> px	right	<input type="text" value="20"/> px

- Style advanced:



Label6

Simple Advanced

Text Style

Color

rgba(255, 255, 255, 1)

Font Family

Roboto

Font Size

18

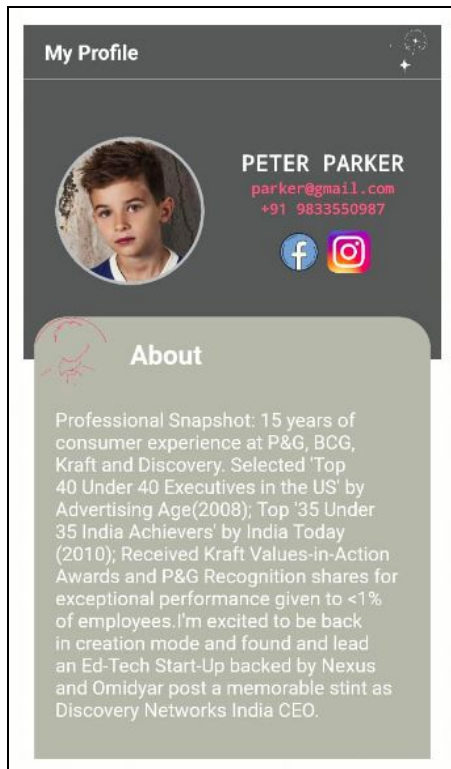
Font Style

normal

Font Weight

300

- Output:



Great! We have completed making the **Profile (Screen1)**.

What's NEXT?

We will learn to apply professional UI Design skills enhancing the UX through various design tools and graphics while developing high definition Apps.

EXTEND YOUR KNOWLEDGE

Here are some Best References we've compiled together to enhance your knowledge and understanding of the concepts we learnt today in the class. This will help you become pro at coding and creating industry-grade tech products!

Short Videos: Watch these Short Videos to understand the application of the concepts learned in class in real-world applications.

1. Thunkable Basics:
https://www.youtube.com/watch?v=3q_S50o6XBk&list=PLArgGKS_QtY4LHWzeljBNtjpQ5tDK8seF
2. UI vs UX: <https://www.youtube.com/watch?v=hQ1rpJKy68>
3. Padding and Margin: https://www.youtube.com/watch?v=HGI_FeBvjGE
4. Common Design Patterns: https://www.youtube.com/watch?v=aB6us_txi54

Coding Practice: Practice the concept in the documents to understand the application of the concepts learned in class in real-world applications.

1. : <https://docs.thunkable.com/user-interface>

2. : <https://docs.thunkable.com/row>