

Nama : Suryana Meissarah Zaini Sinaga

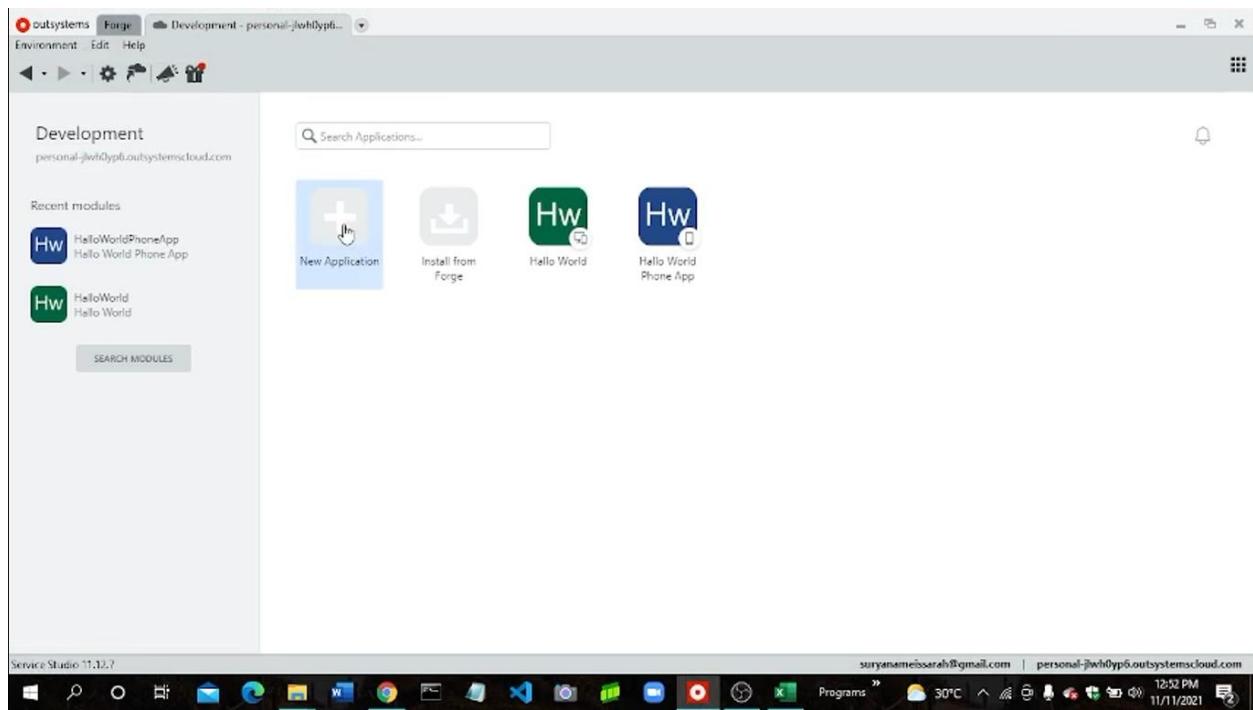
NIM : 191402055

a. Modeling Data in Outsystems

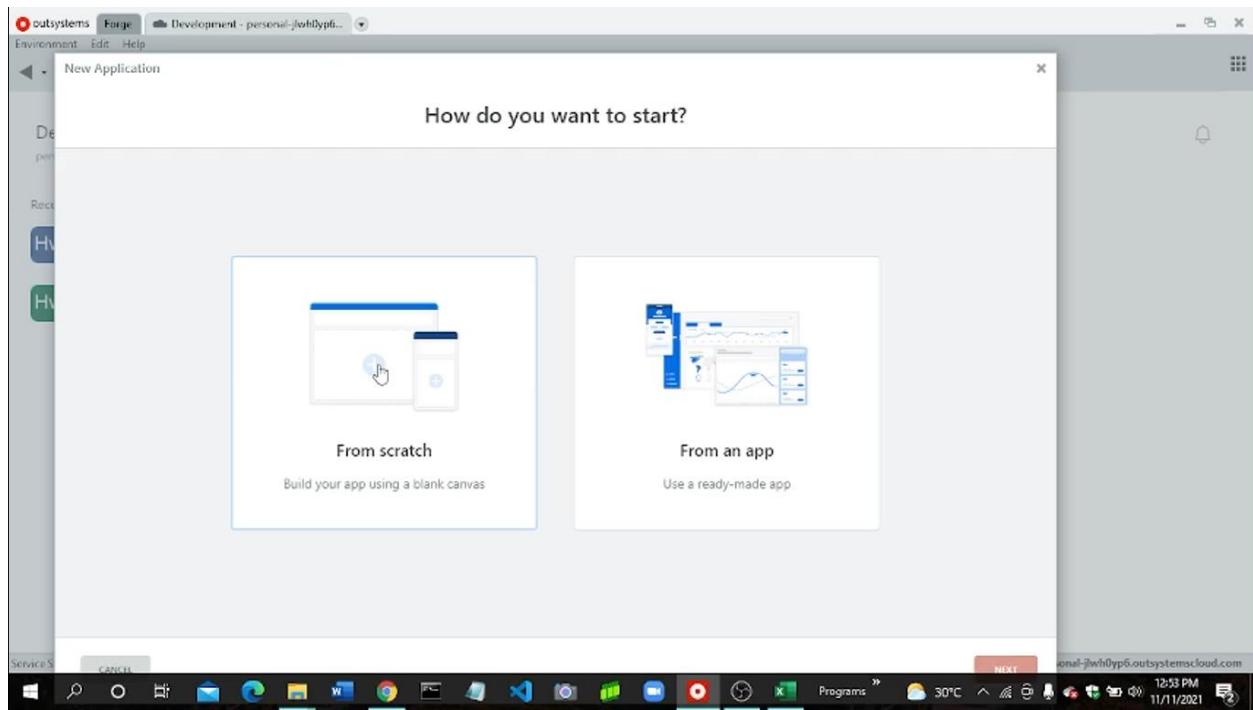
1. Download material to upload (file excel and an icon)

The screenshot shows a web browser window for the OutSystems Data Modeling Exercise. The URL is outsystems.com/training/lesson/1915/data-modeling-exercise?LearningPathId=18. The page title is "Data Modeling Exercise". The main content area describes the exercise goal: creating first entities in OutSystems by bootstrapping an Entity from an Excel file, creating an Entity and its attributes, and bootstrapping data into an existing entity. It also mentions that completion will result in two entities containing data from an Excel file. A "Lesson Materials" button is present. On the right, a sidebar titled "Course Lessons" lists "Modeling Data", "Database Entities", "Static Entities", and "Exercise". The "Exercise" section is expanded, showing a sub-item "Data Modeling Exercise". A floating chat bubble at the bottom right says "Have any questions? I can answer them!" with a small robot icon.

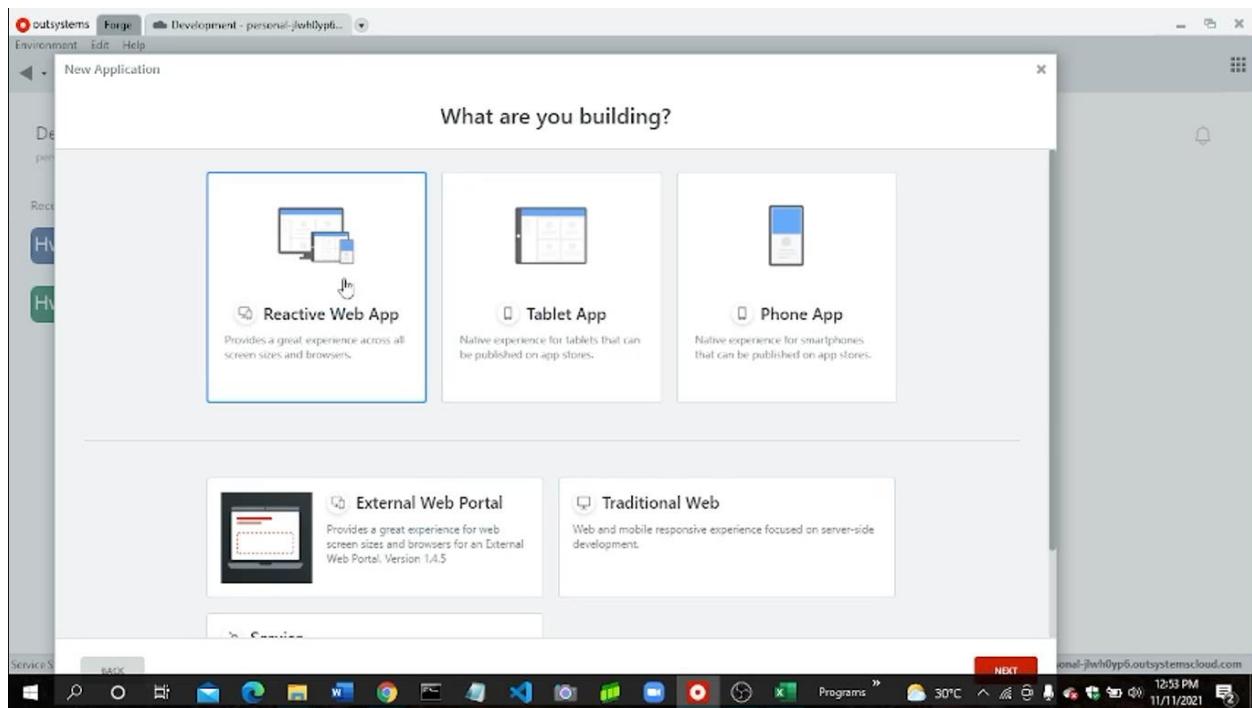
2. Open outsystems and choose new application



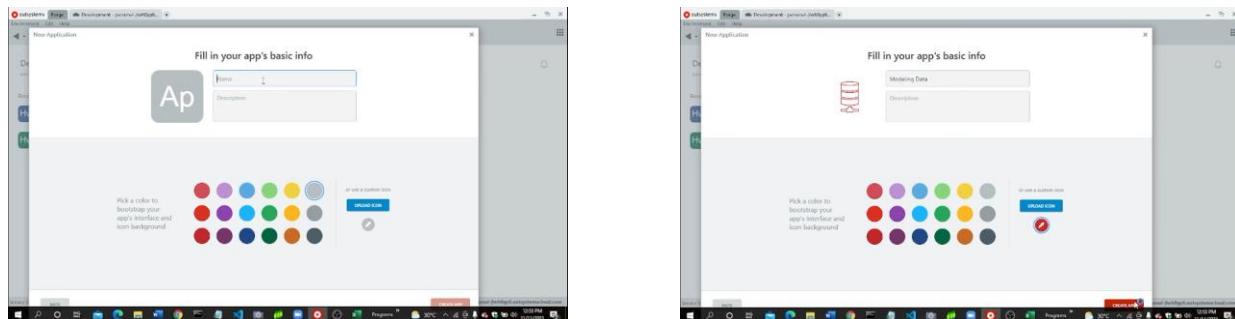
3. Choose “from scratch” then click next



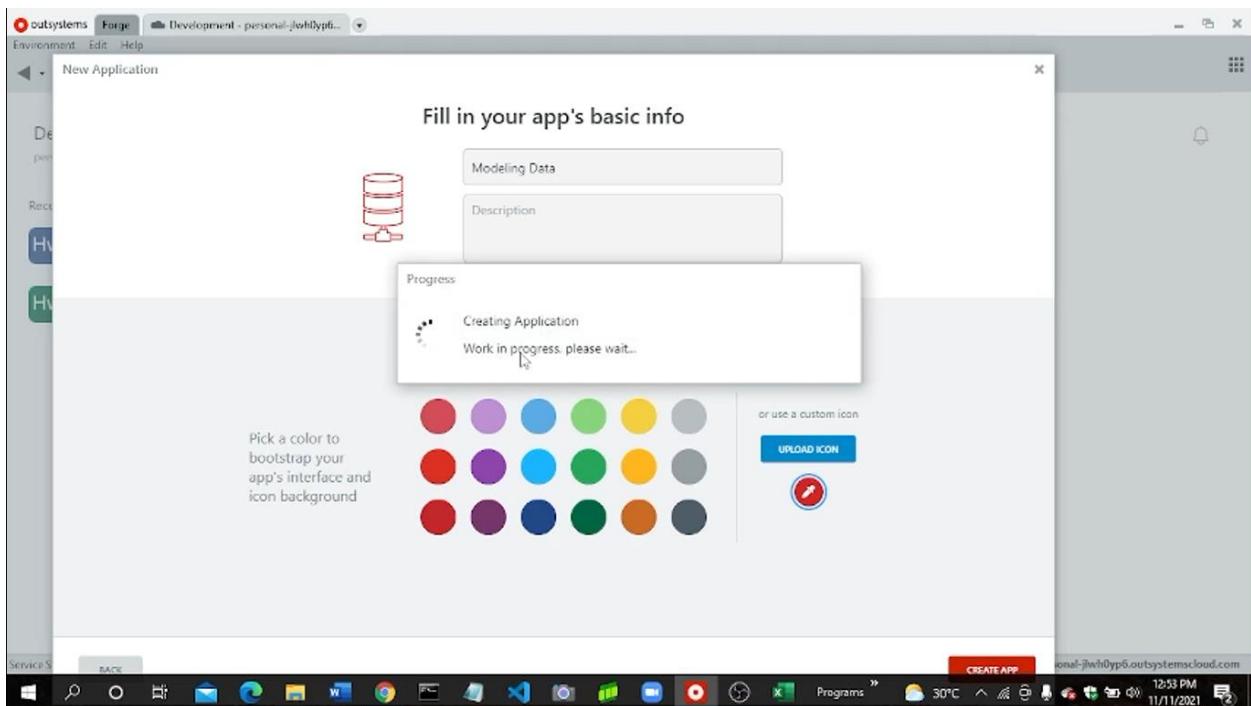
4. Choose “reactive web app” then next



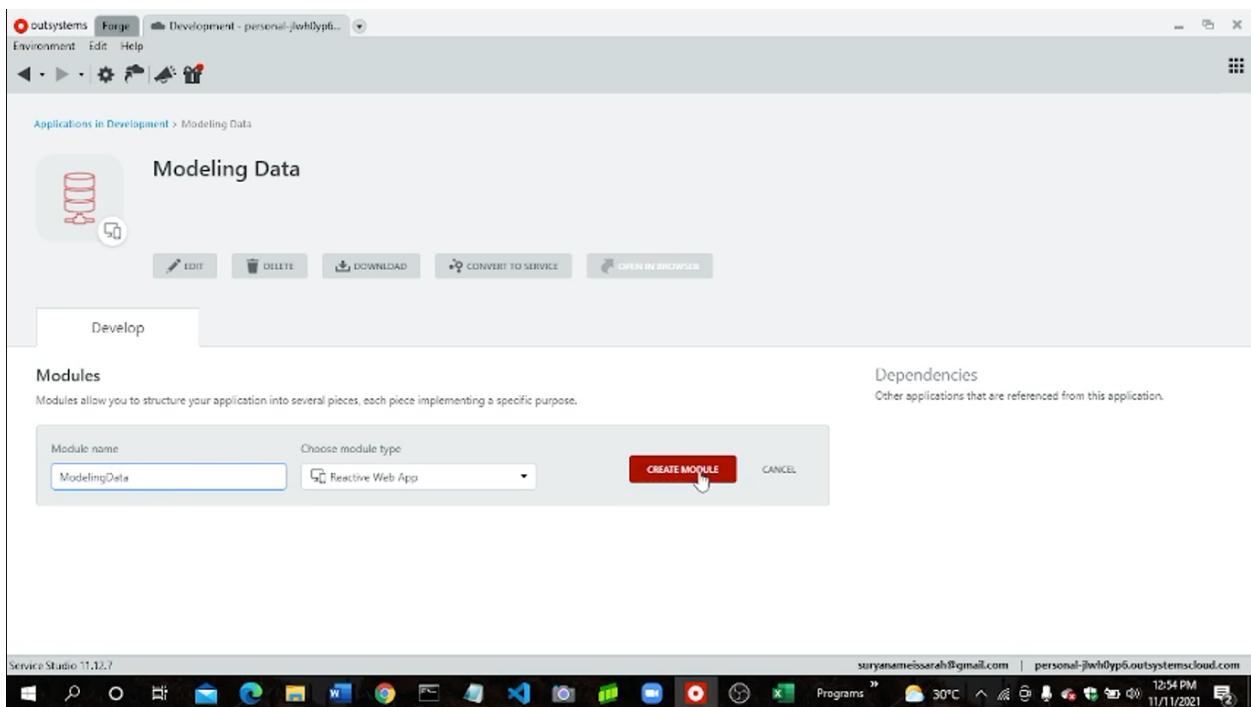
5. Fill the name and description and upload the icon provided the create app



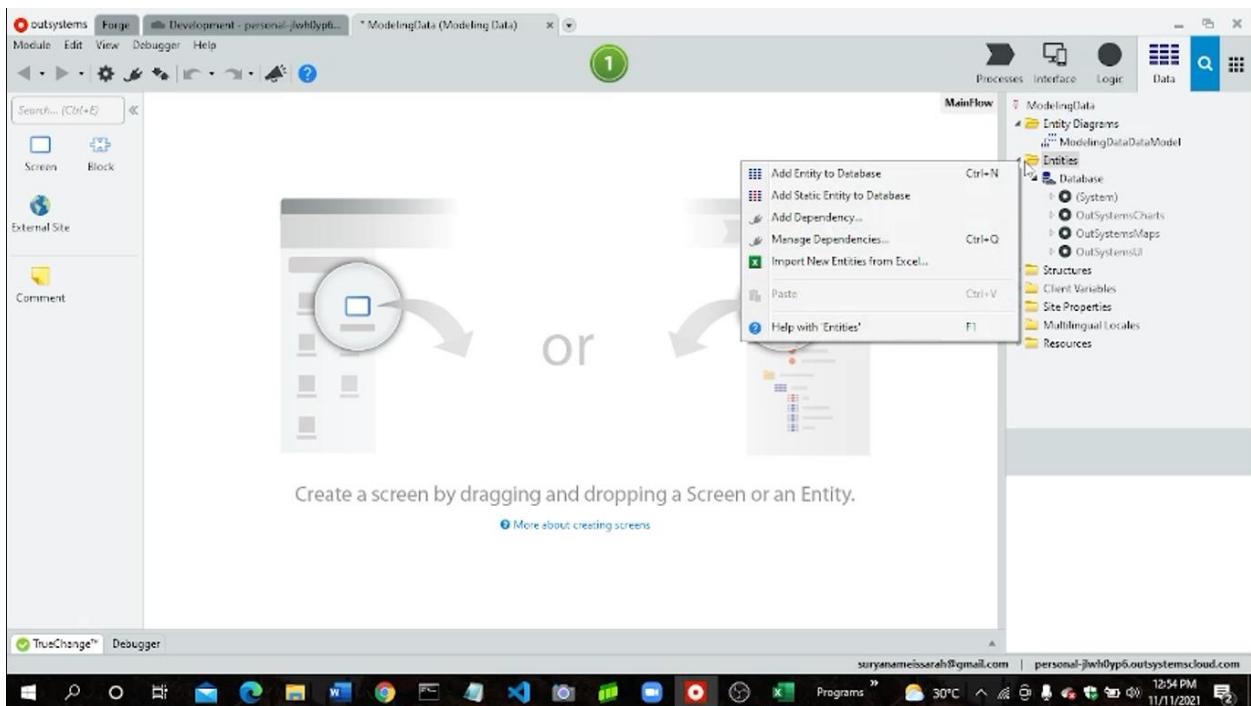
6. Wait until the creating application process finished



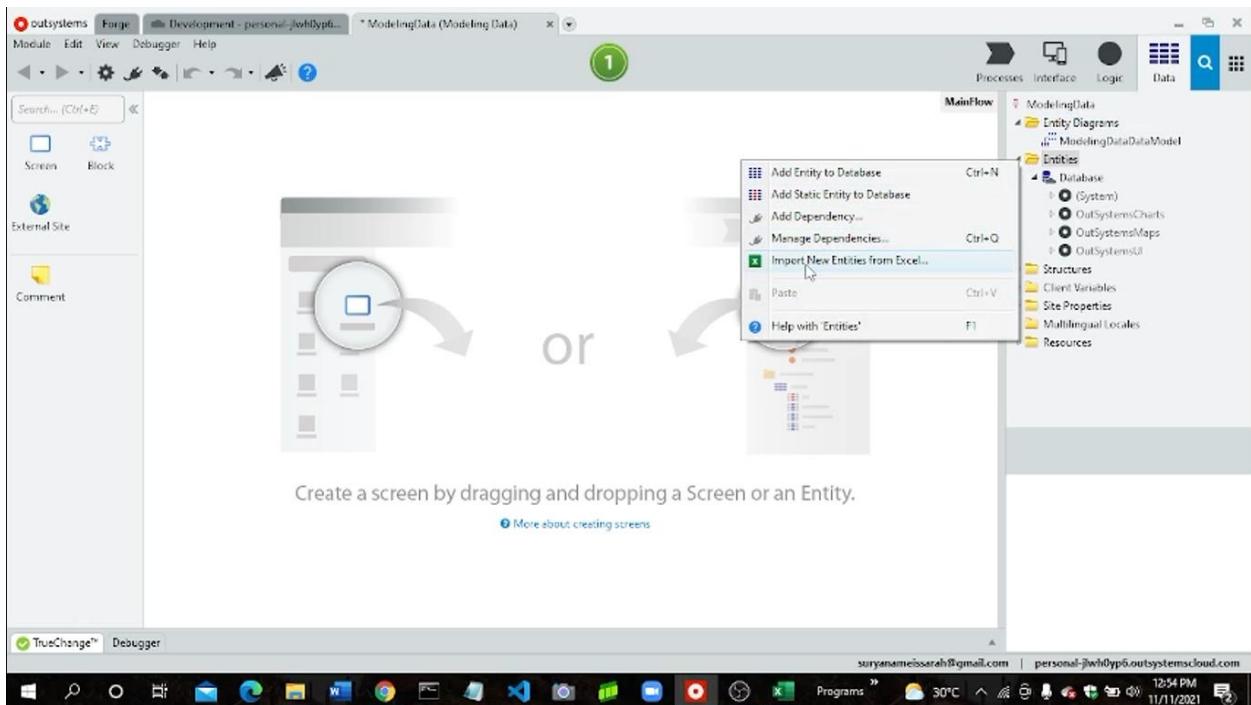
7. Then “create module”



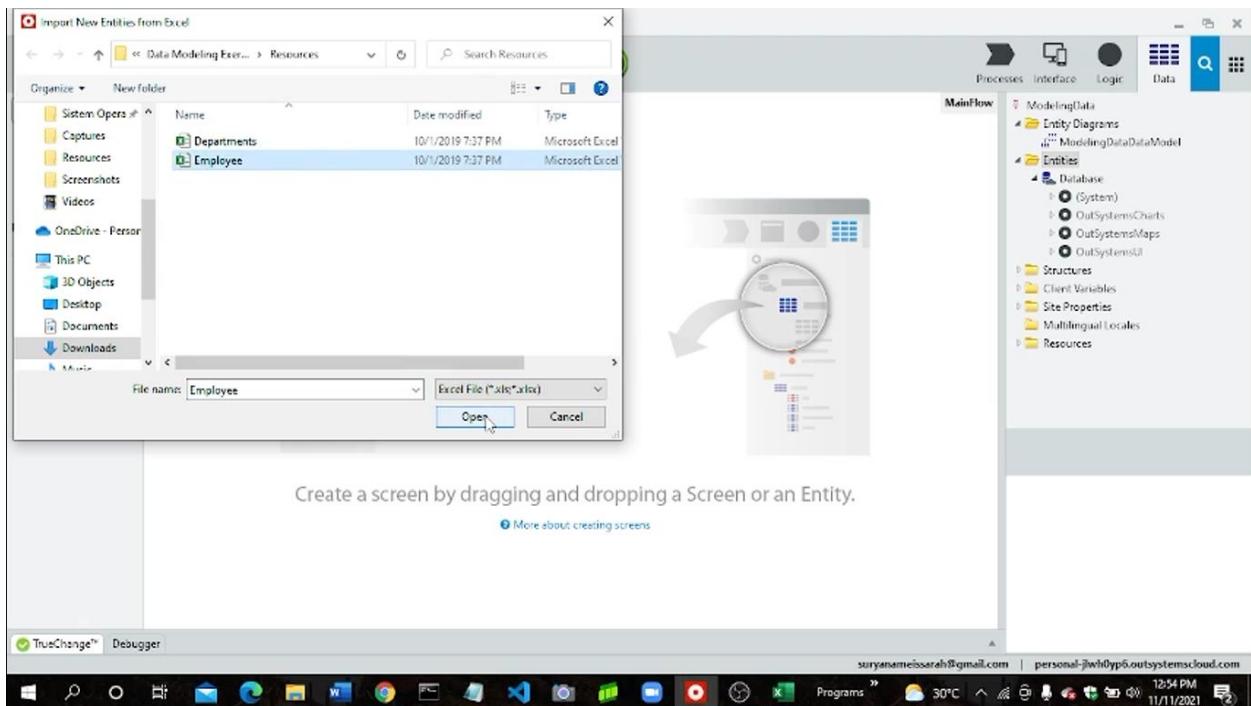
8. Choose entities, then right click



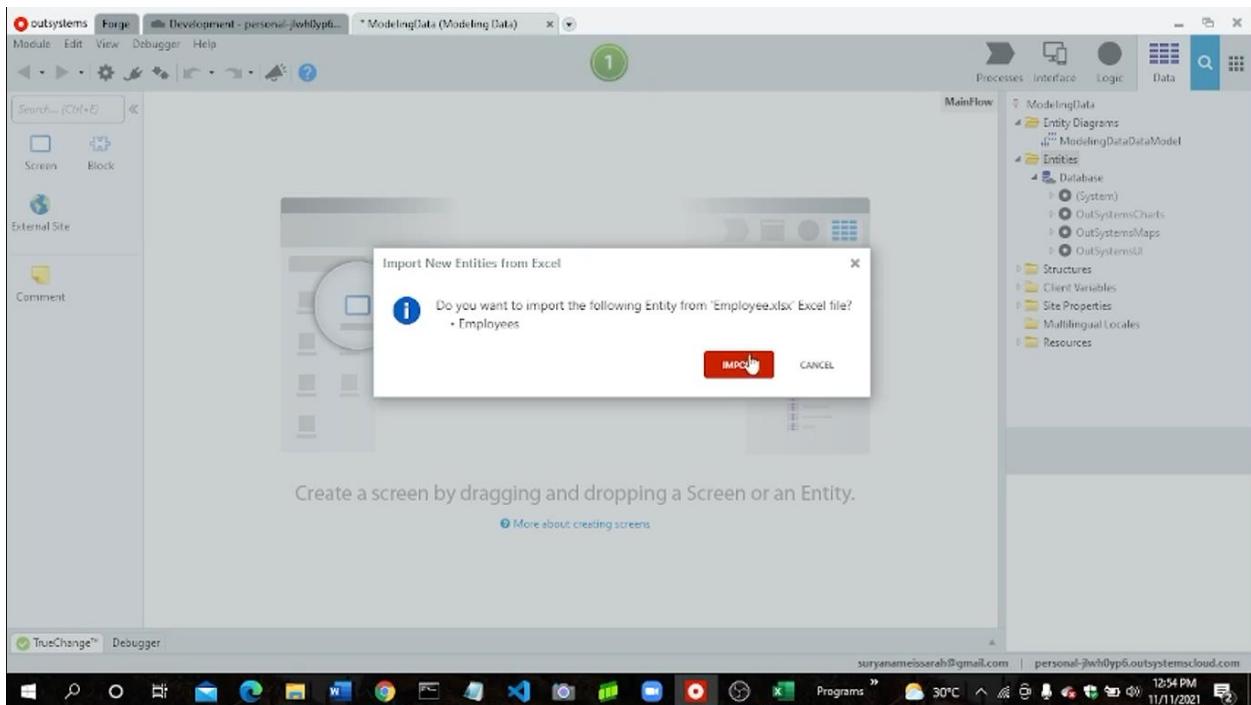
9. Choose “Import New Entities from Excel”



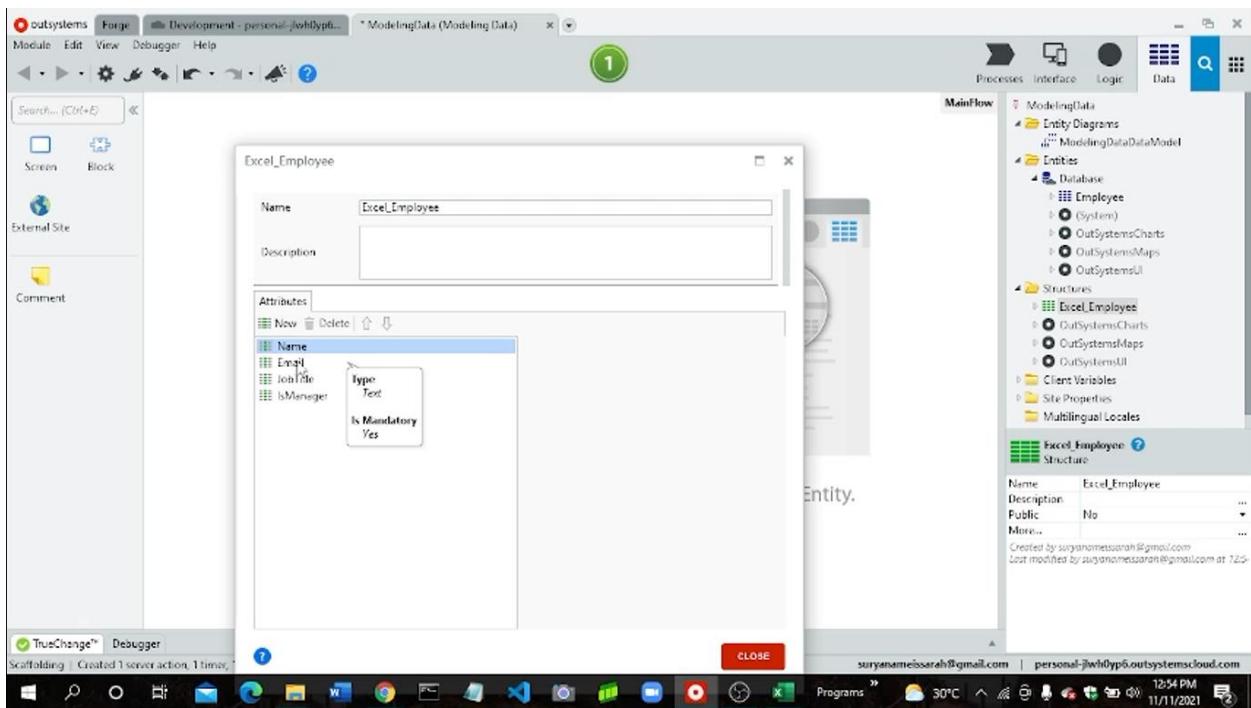
10. Upload the excel that we've downloaded before then open



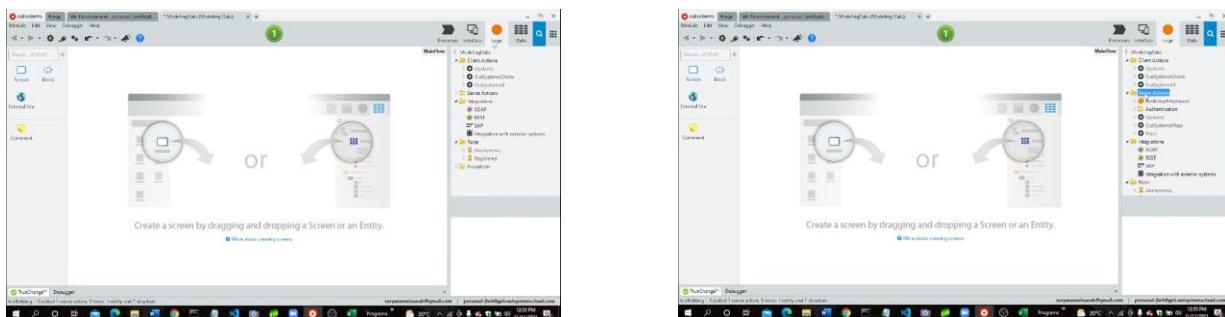
11. Click “import”



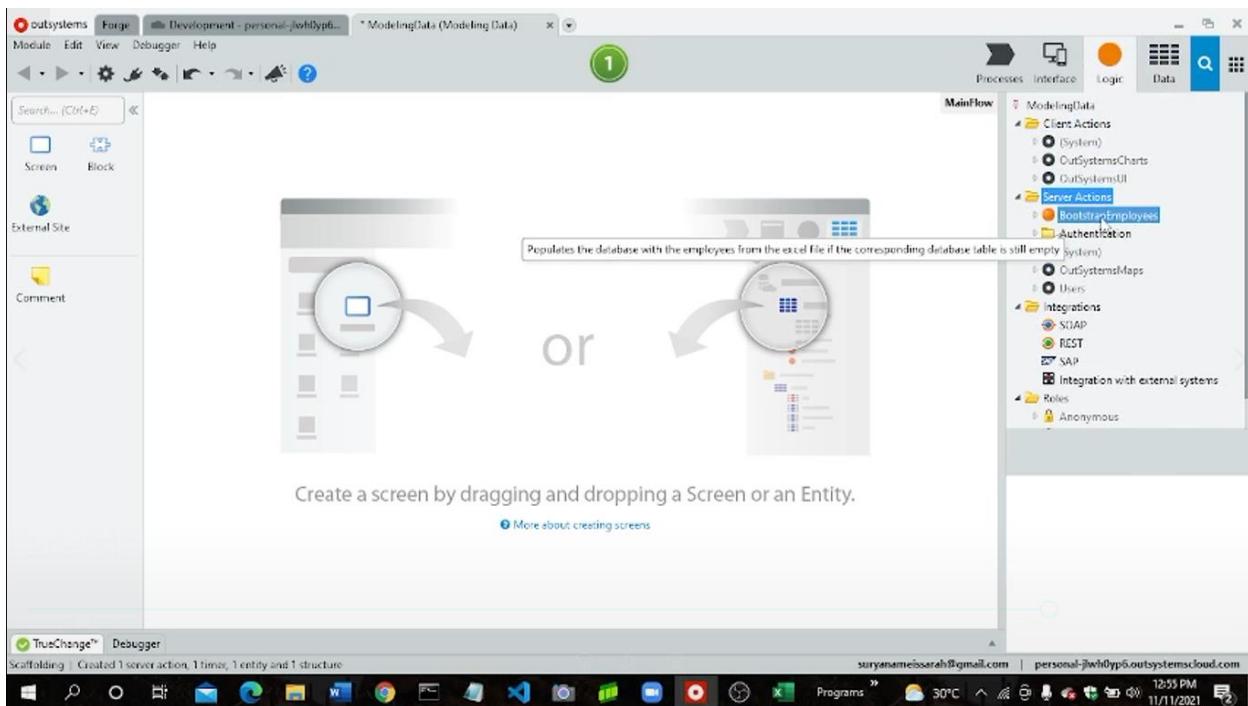
12. Click “structures”, then “excel employee” to make sure that the data is in



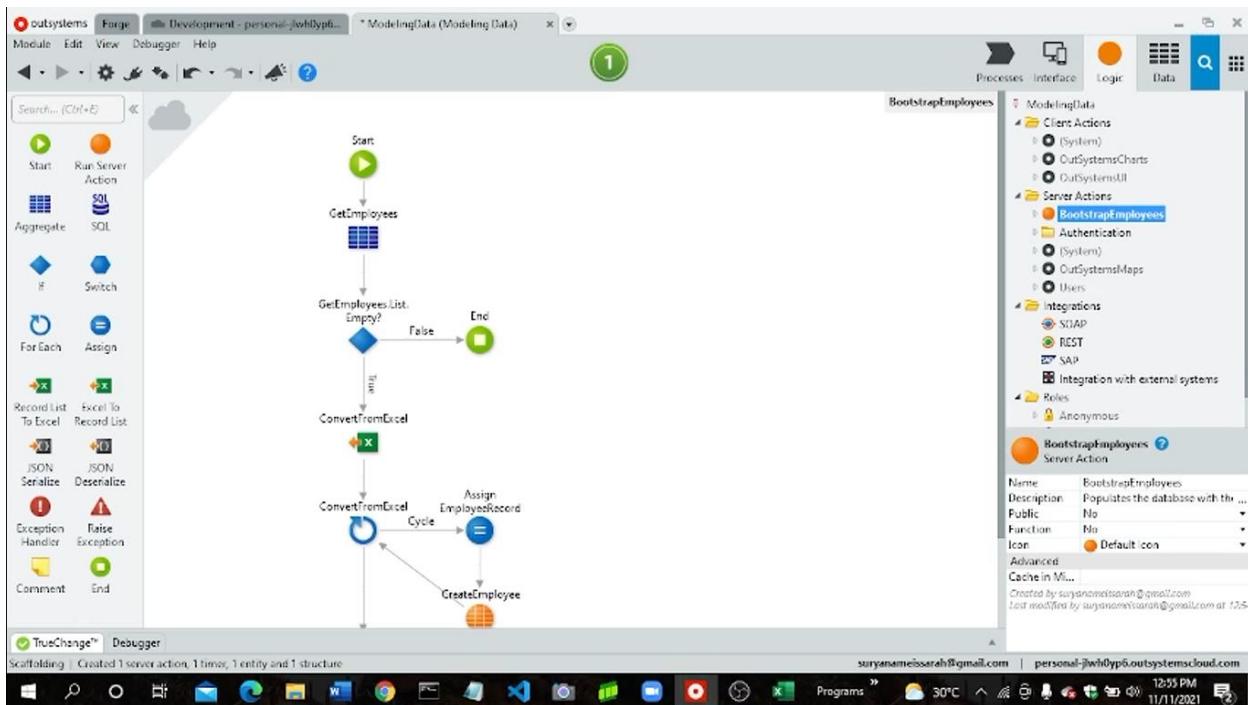
13. Go to “logic”, open “server actions”



14. Click “BootstrapEmployees”



15. Click and see if the data is in



b. Using Widgets Exercise

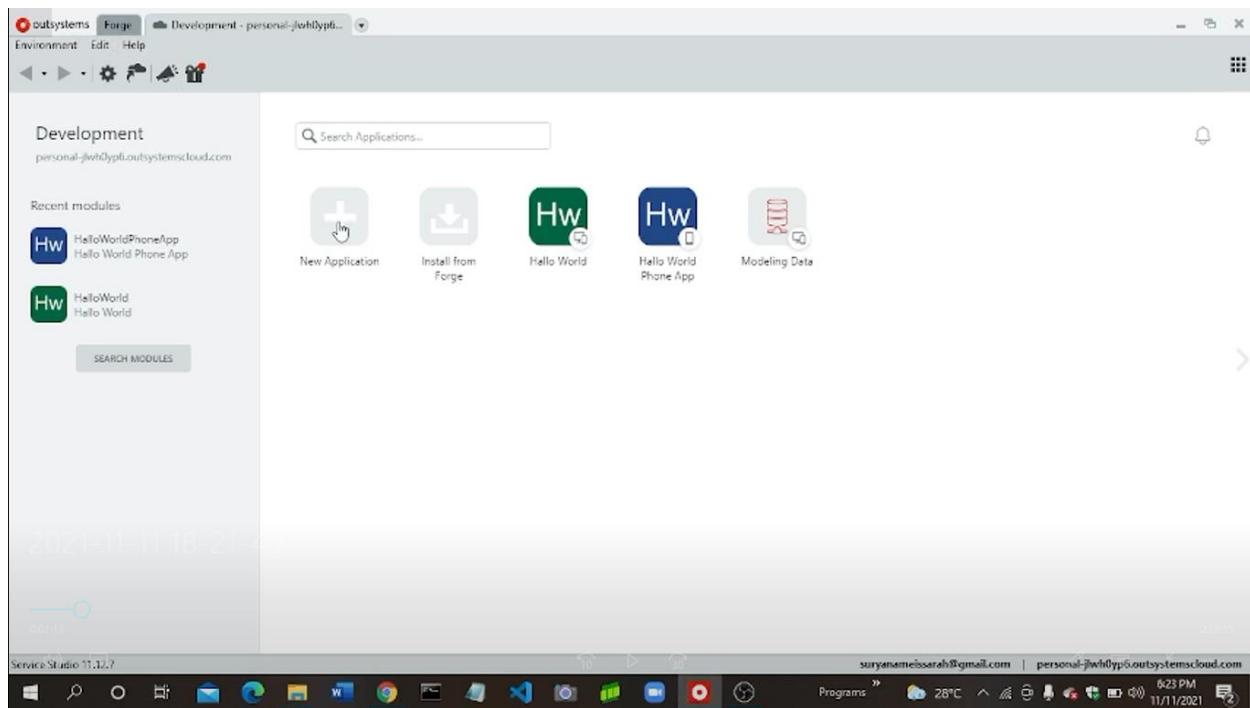
1. Open [outsystems.com](https://outsystems.com/training/lesson/1921/using-widgets-exercise?LearningPathId=10), choose reactive UI Development 101

The screenshot shows a web browser window with the OutSystems training platform. The title bar has three tabs: 'Application Development: Fast', 'Using Widgets Exercise < React...', and 'google translate - Penelusuran'. The main content area is titled 'Reactive UI Development 101'. It features a navigation bar with 'My Platform', 'Tools', 'Learn', 'Community', and 'Support' options. A search bar and a 'Contact us' button are also present. Below the navigation is a breadcrumb trail: '< Back to Becoming a Reactive Web Developer Guided Path'. The main content area is titled 'Reactive UI Development 101'. It includes a 'Service Studio version:' dropdown set to 'Cross-platform', a 'Course Progress' bar at 0%, and a 'I'm done' button. The central part of the page is titled 'Exercise' and contains the heading 'Using Widgets Exercise'. It describes the exercise requirements: developing a basic user interface using Text, Expressions, Containers, and If widgets to create a simple calculator. It lists two bullet points: 'The input parameter value is shown on the screen.' and 'By clicking on a button, the value of the input parameter will be incremented by one.'. To the right of the exercise description is a sidebar with tabs for 'Course Lessons' (selected), 'Lesson Transcript', 'Reactive UI Development' (dropdown), and 'Widgets'. The 'Widgets' tab shows a message bubble icon with '1' and the text 'Have any questions? I can answer them!'. Below the sidebar is another 'Exercise' section with a link to 'Using Widgets Exercise'. The bottom of the page has a 'Lesson Materials' button, a help forum link, and a feedback ideas link. The status bar at the bottom of the browser shows the date and time: '6:22 PM 11/11/2021'.

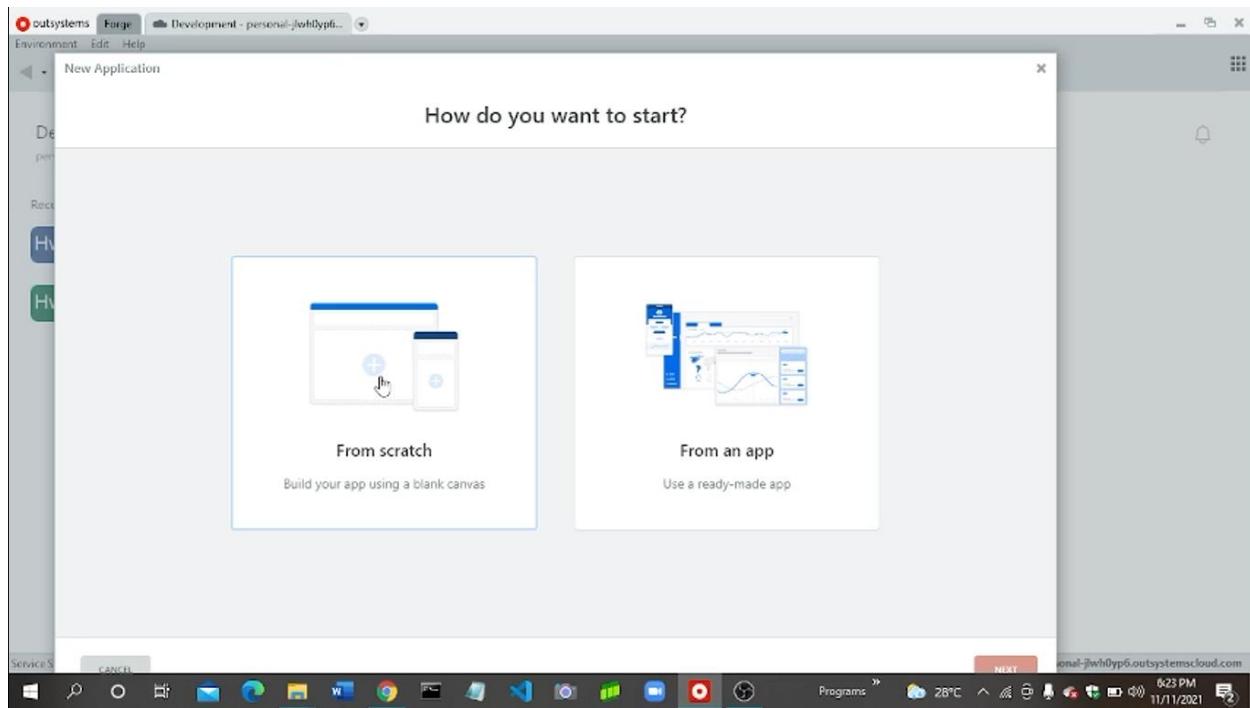
2. Download file that provided in “lesson materials”

The screenshot shows the same OutSystems training interface as the previous one, but now focusing on the 'Using Widgets Exercise' lesson materials. The main content area displays the requirements for the exercise, which include incrementing the input parameter by one when a button is clicked. Below this, it states: 'When this is completed, the simple screen will have an expression, a few styled containers, buttons, links, and an If widget.' At the bottom of the page, there is a section for 'Exercise Materials' with a 'Lesson Materials' button, a link to 'Help in our Forums', and a link to 'Share Ideas'. A sidebar on the right side of the page shows the 'Widgets' and 'Exercise' sections, with the 'Using Widgets Exercise' item selected. The status bar at the bottom of the browser shows the date and time: '6:22 PM 11/11/2021'.

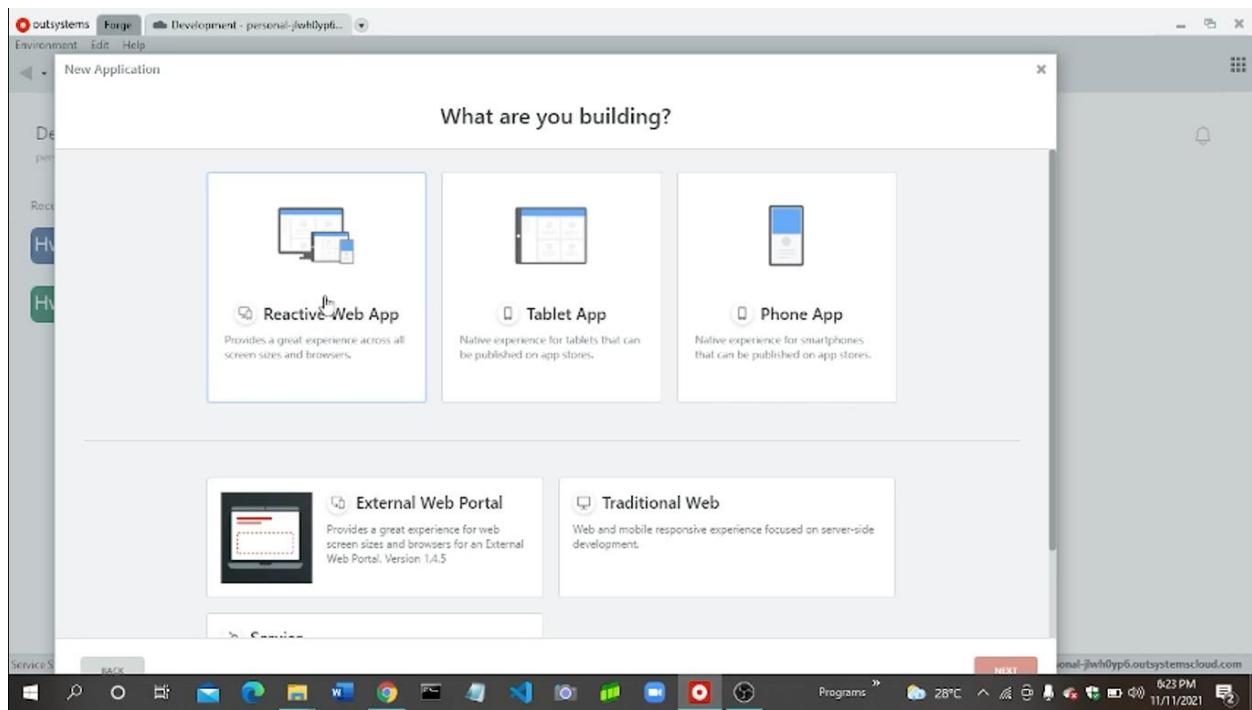
3. Go to outsystems application and create “new application”



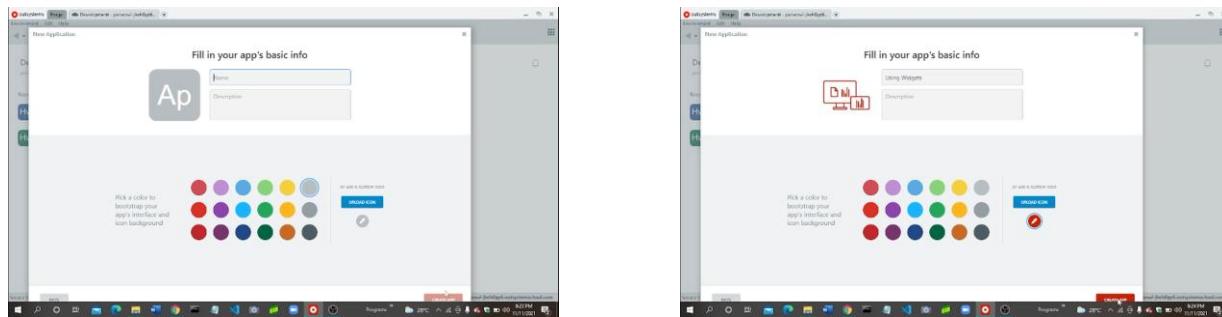
4. Click “from scratch” then next



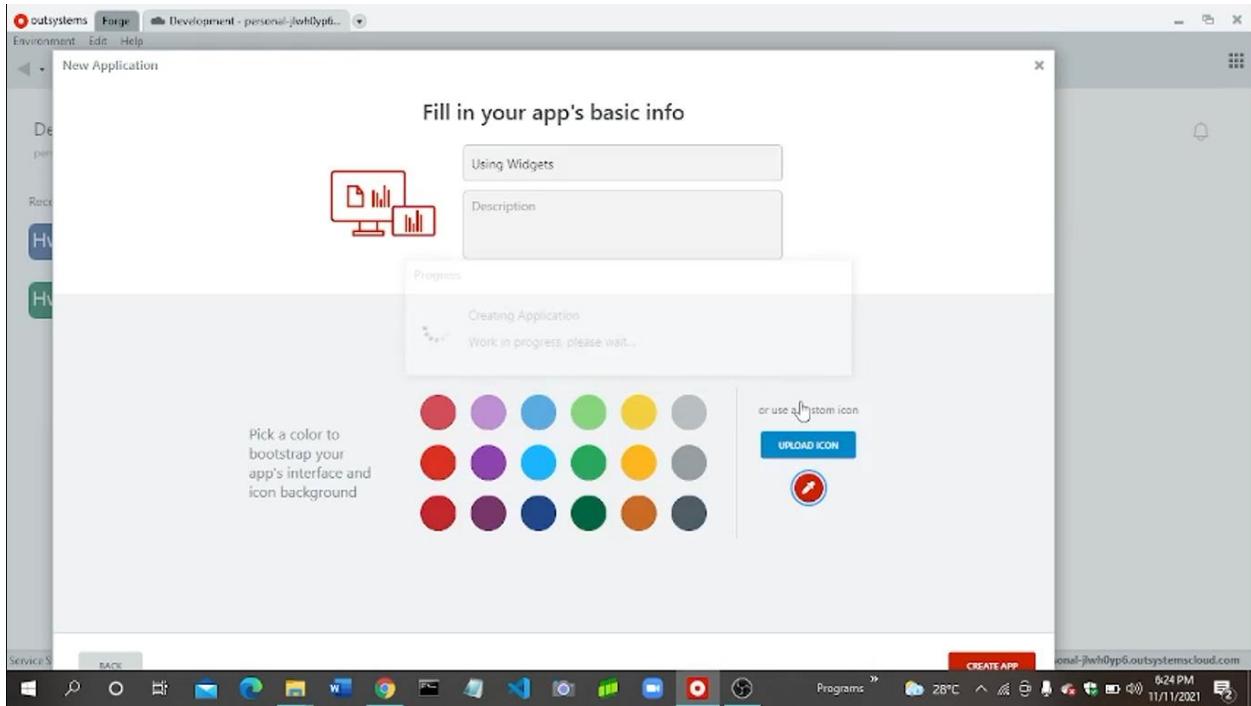
5. Then “reactive web app” and next



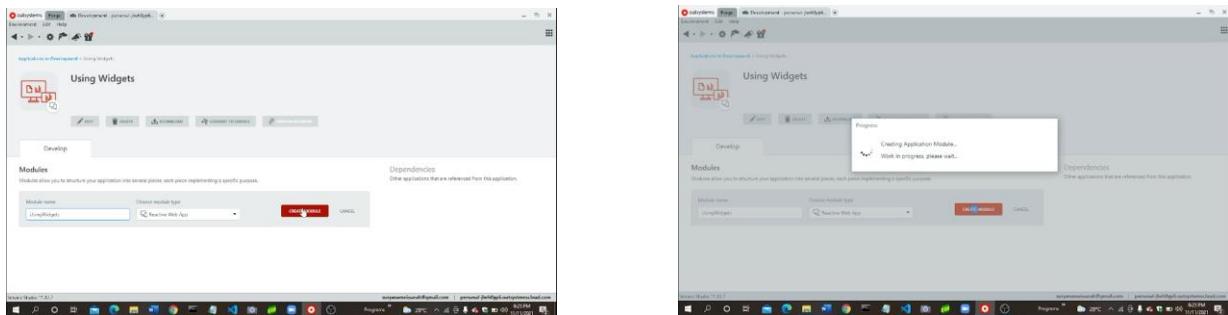
6. Fill the name and upload the icon provided



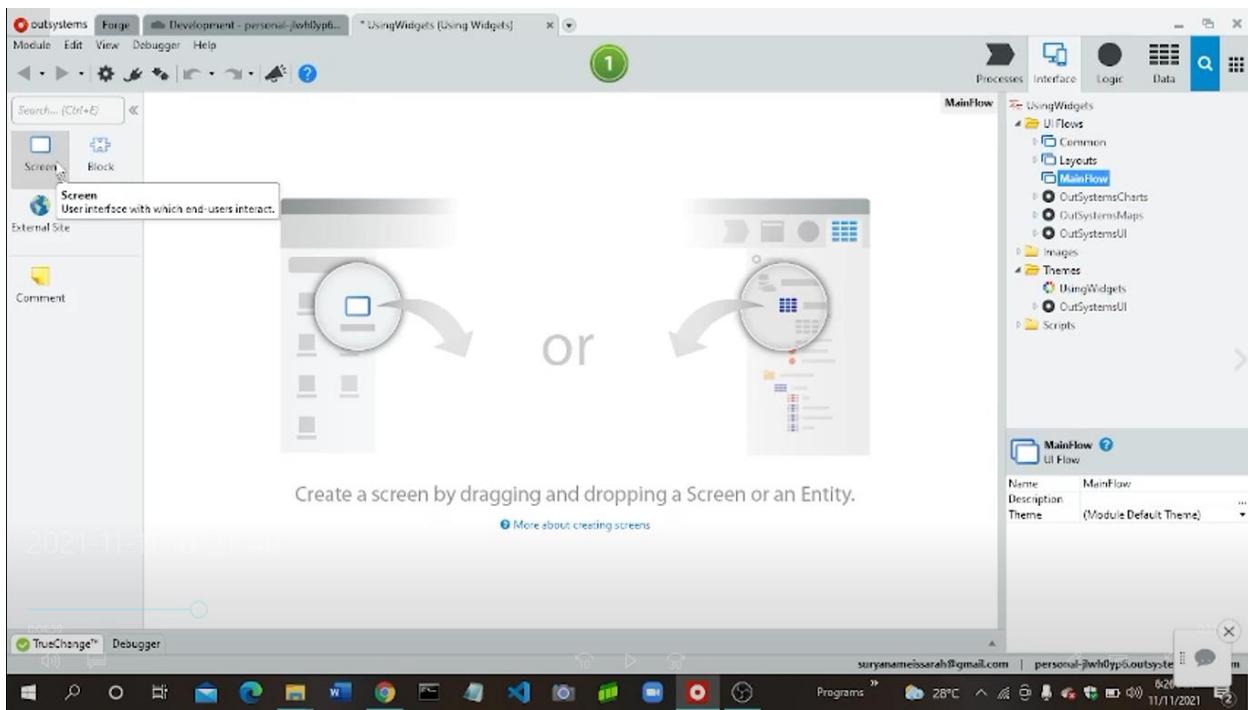
7. Then create app and wait the process



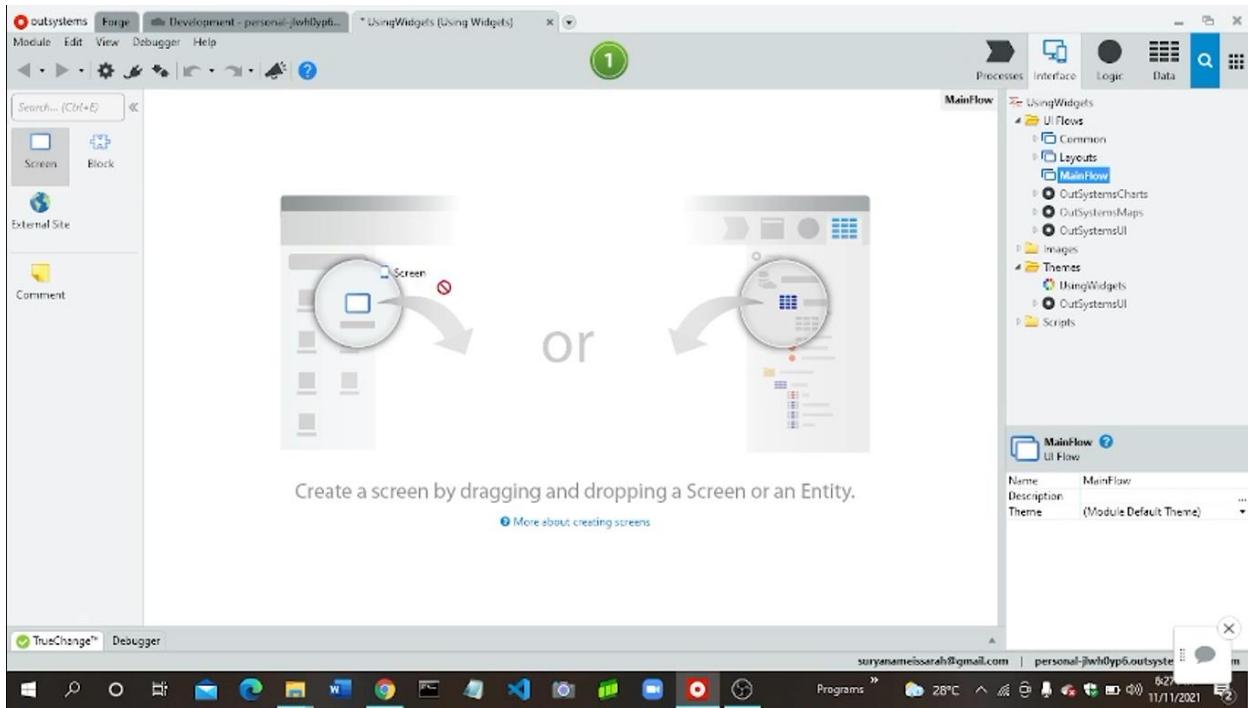
8. Then “create module”



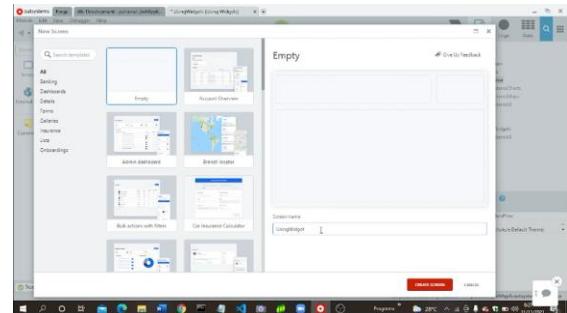
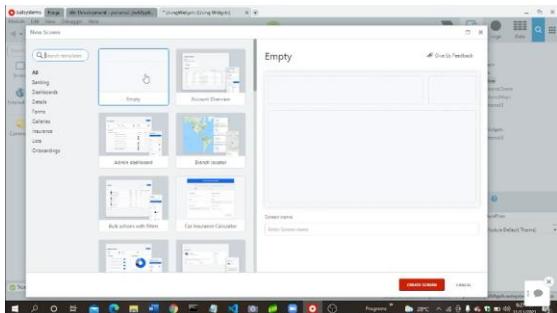
9. This is the screen



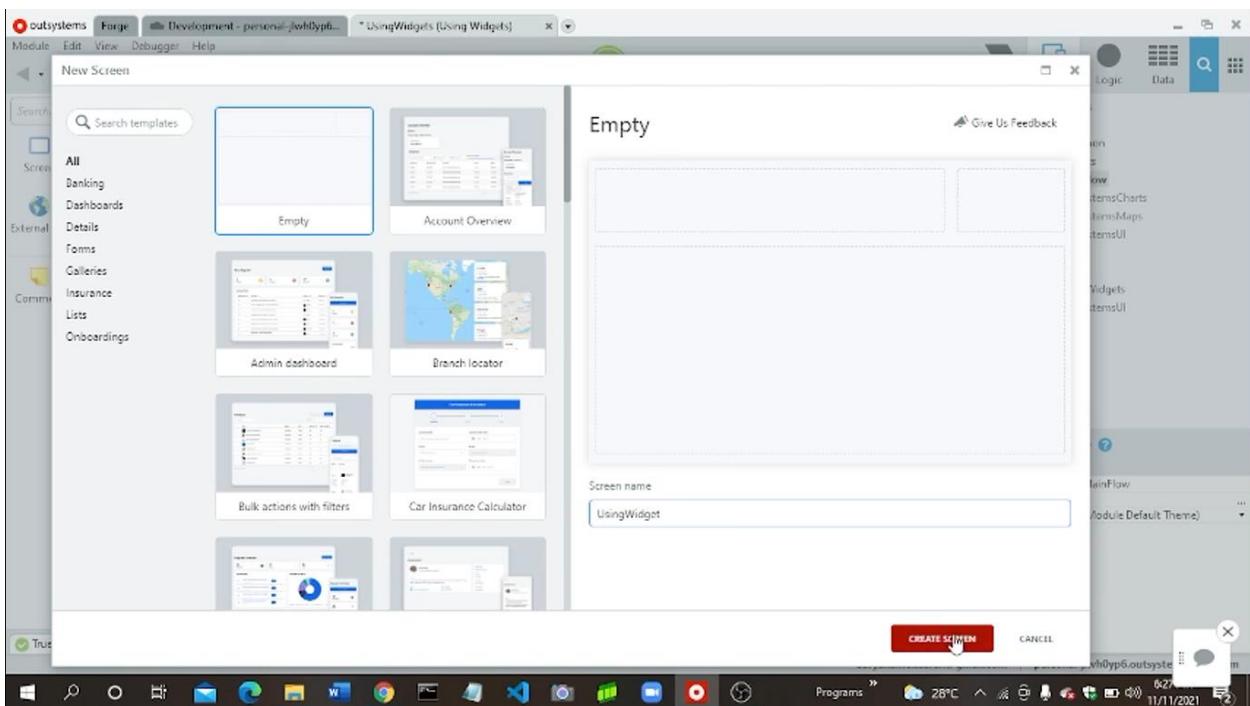
10. Drag the screen to your blank screen



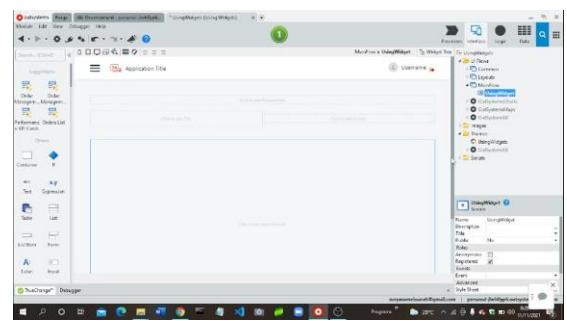
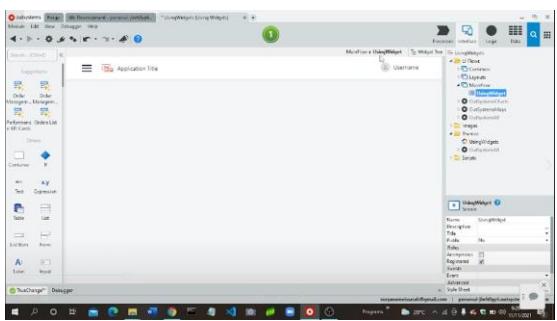
11. Choose “empty” and fill your screen name



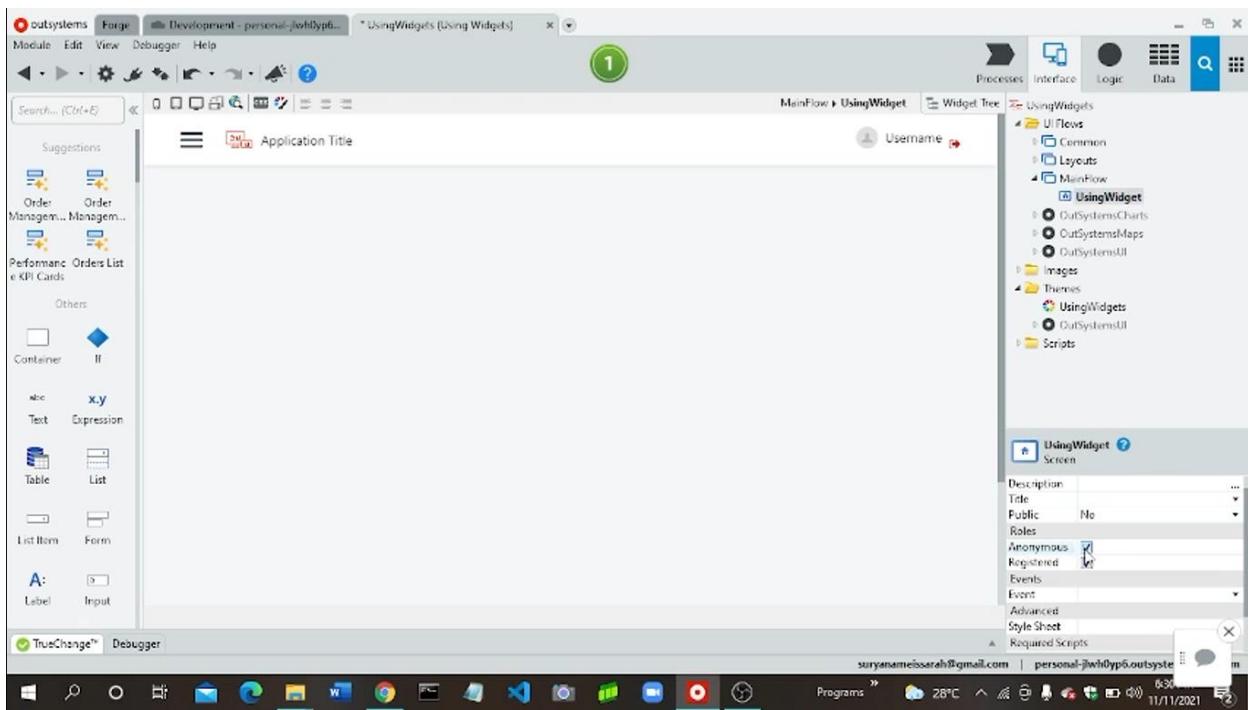
12. Then “create screen”



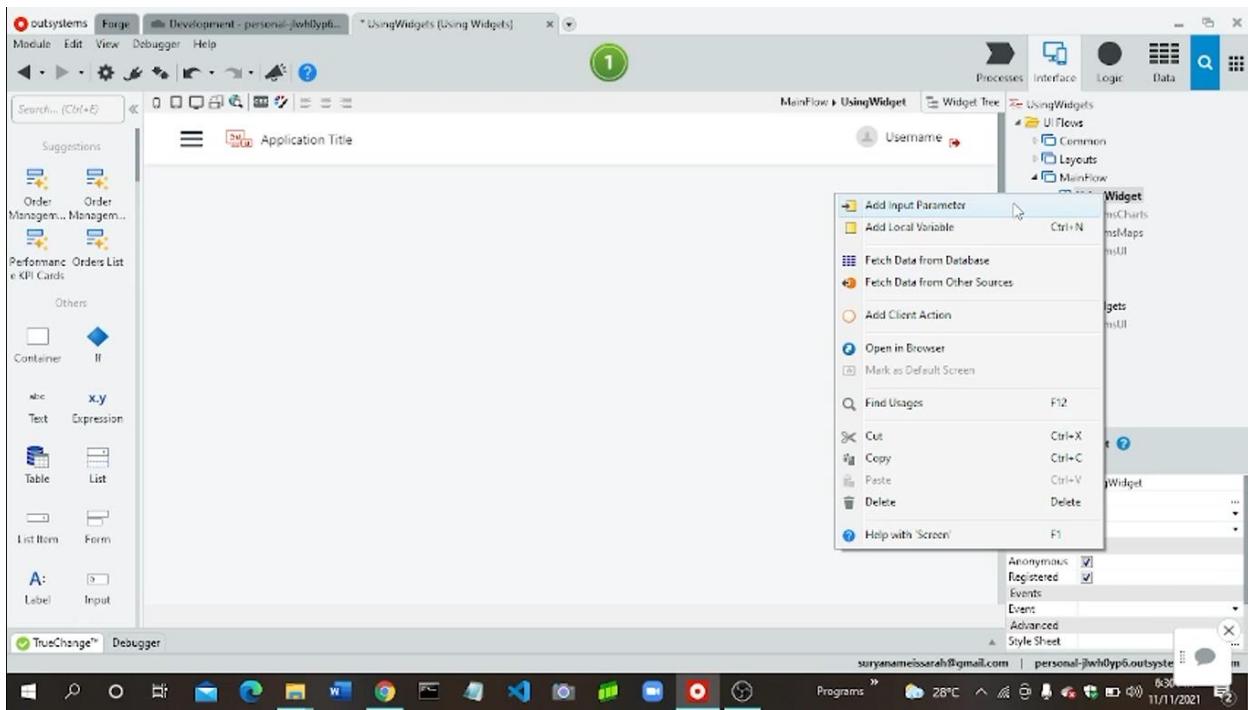
13. Check if your screen is already made and this is how the screen looks like



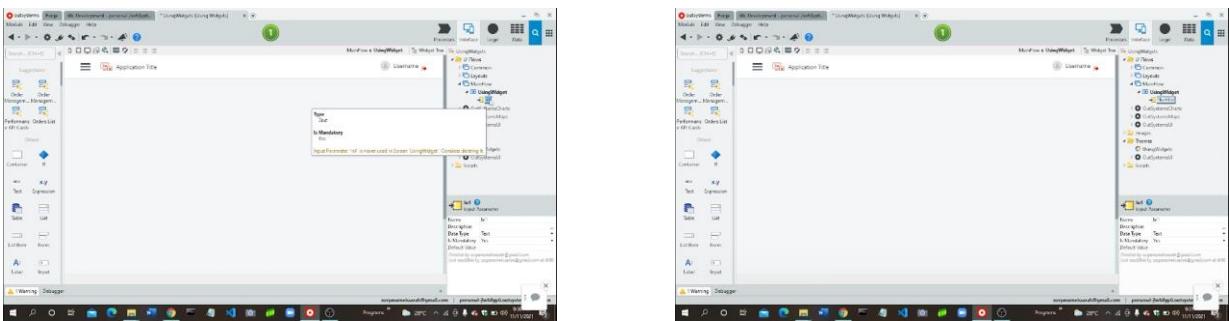
14. Double Click “usingwidgets” and at the right bottom. Tick the anonymous



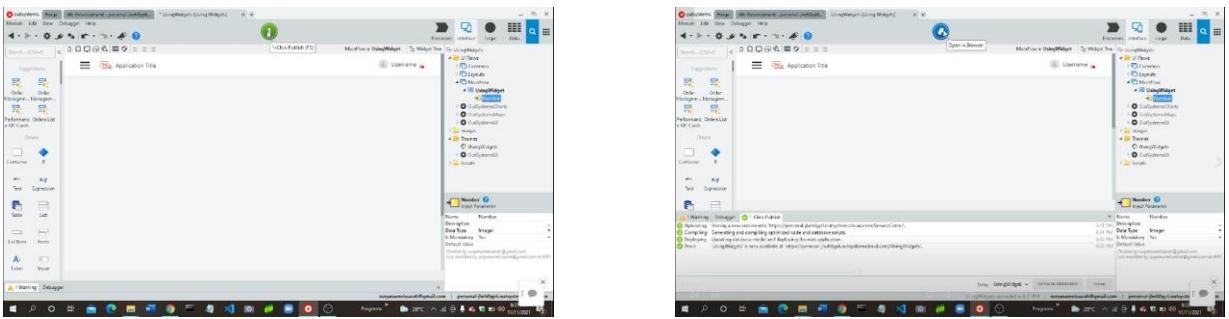
15. Right Click again “usingwidgets” and “add input parameters”



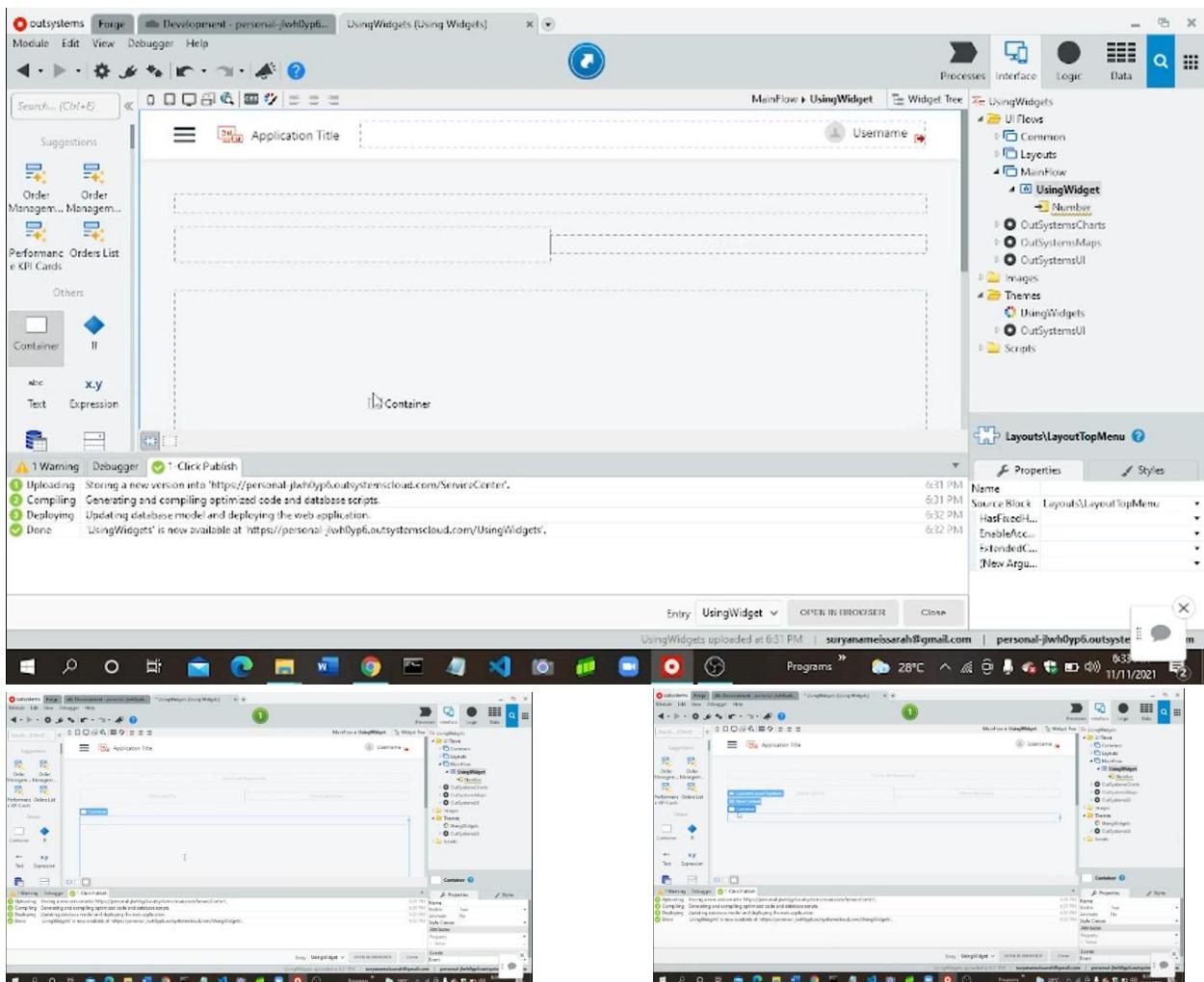
16. Change the name into number



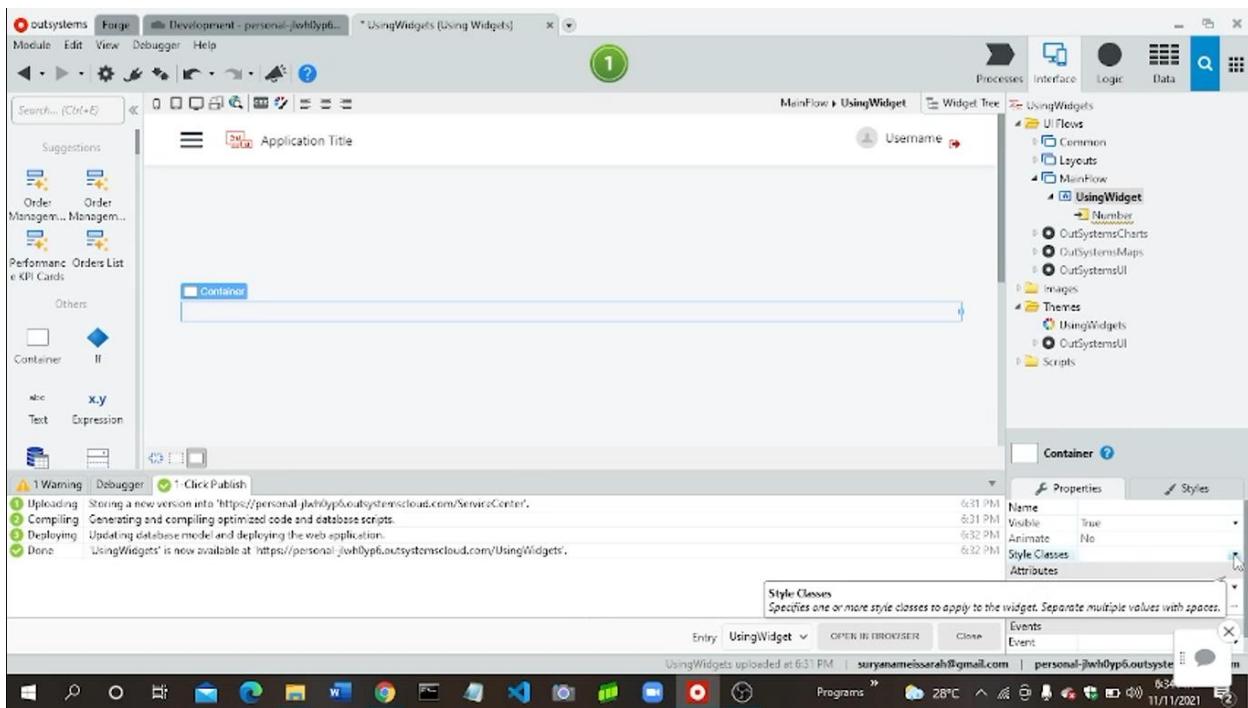
17. Then publish by clicking “1-click publish” and wait until the proces is finished



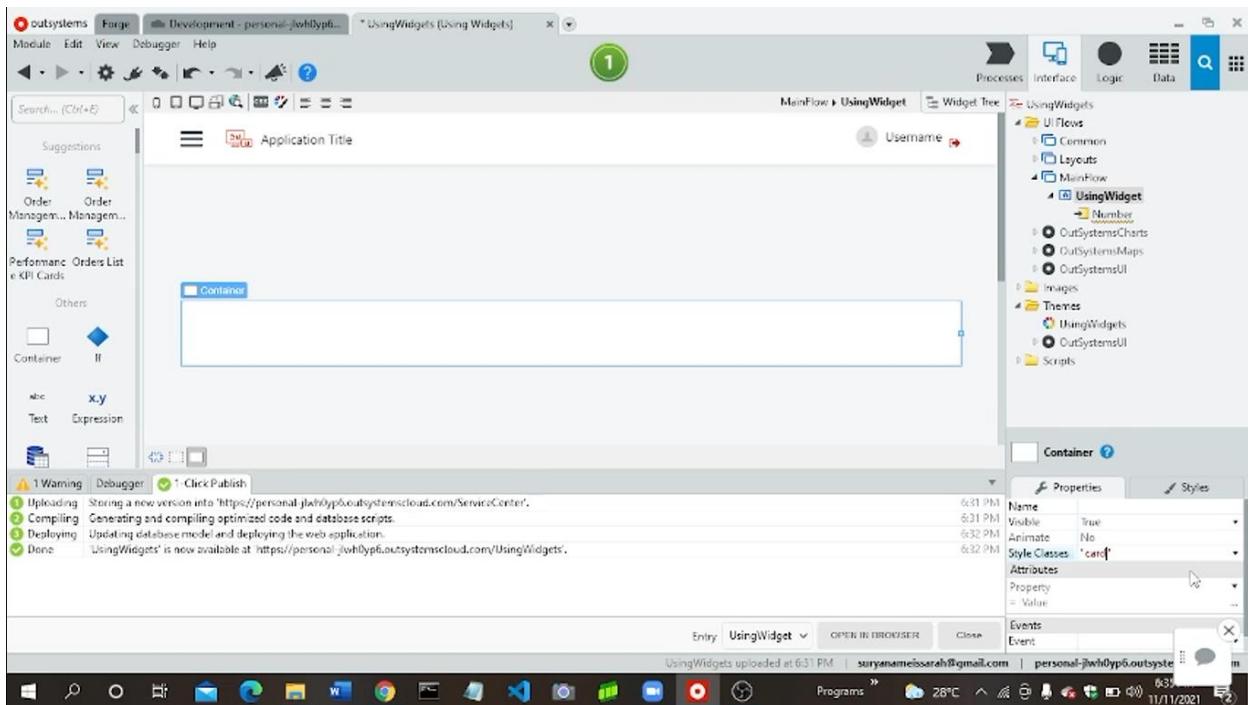
18. Drag “container” to the main content



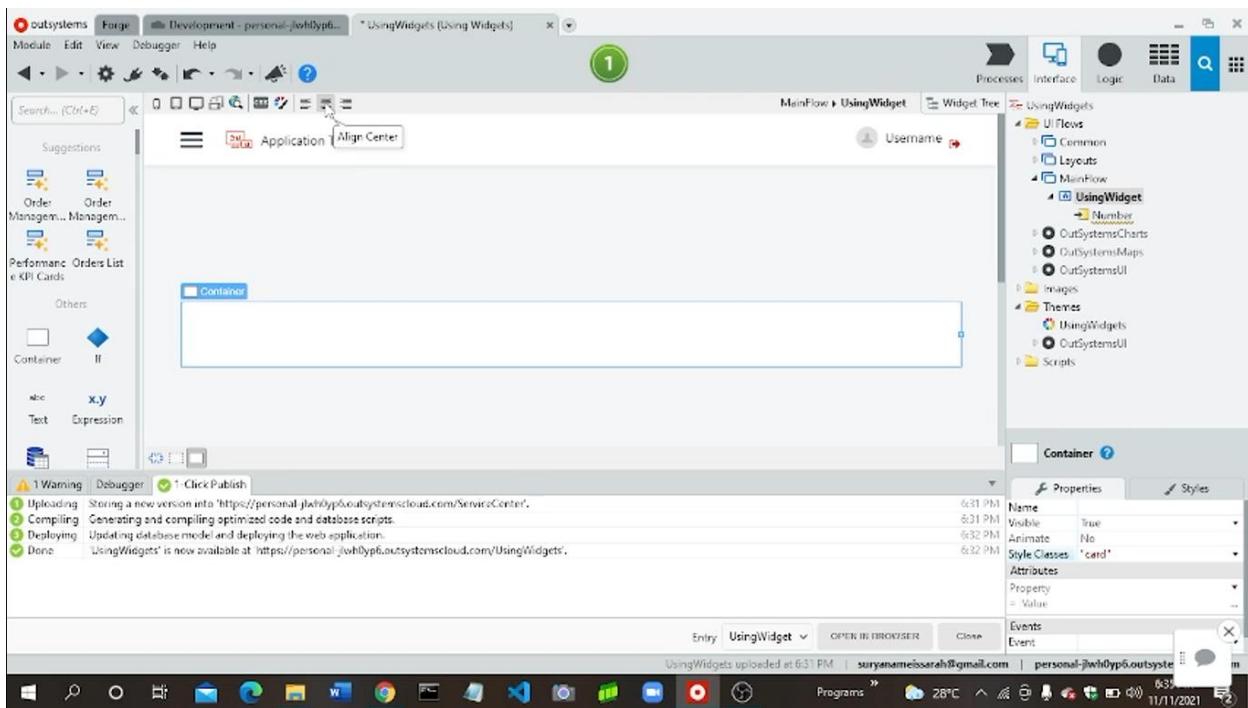
19. Click “style classes”



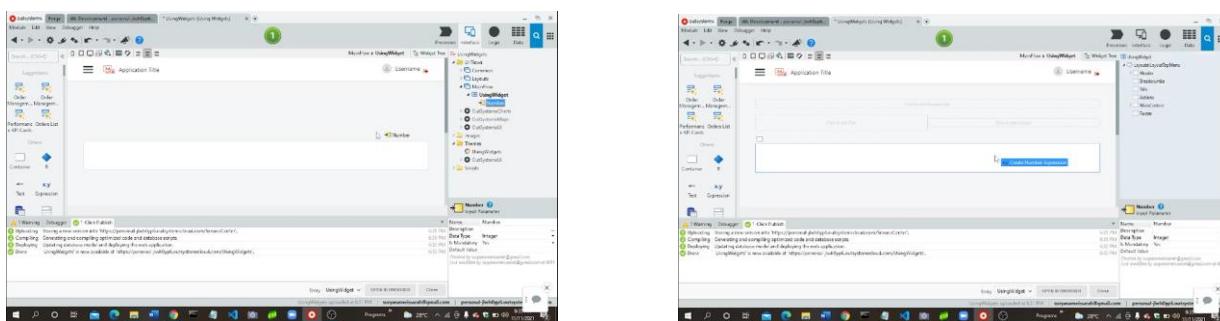
20. Type 'card' on the style classes



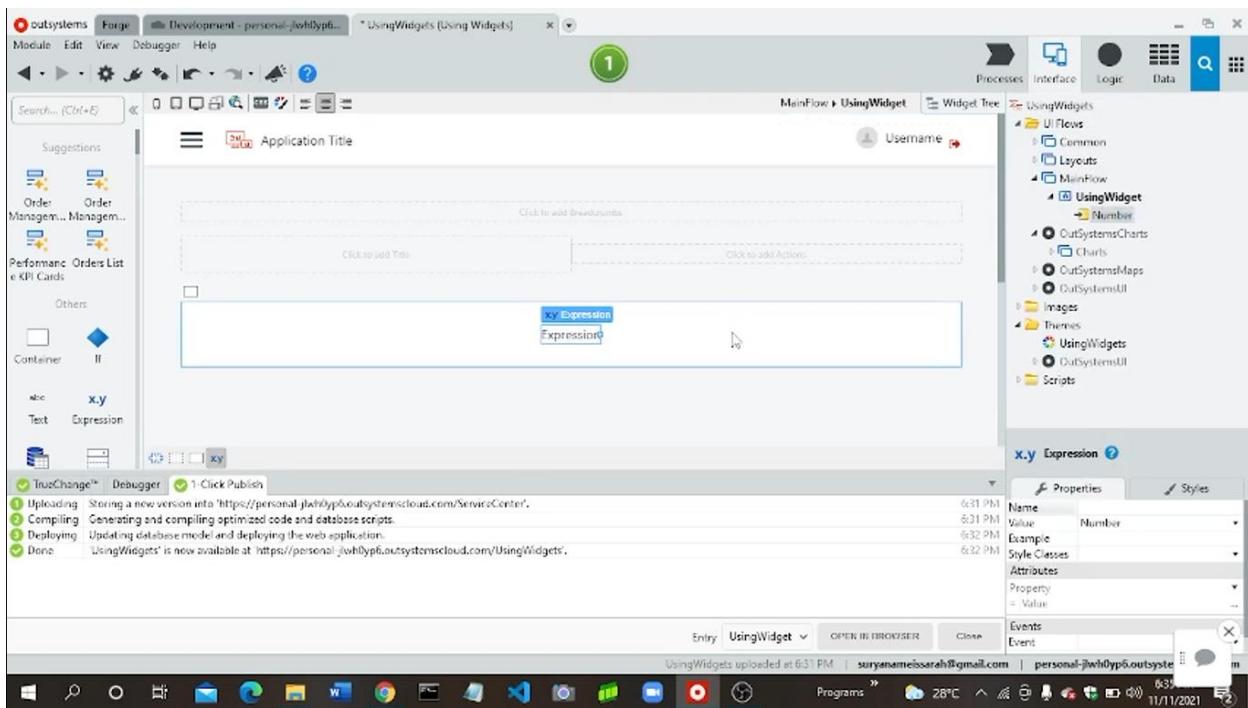
21. Make the column on the center



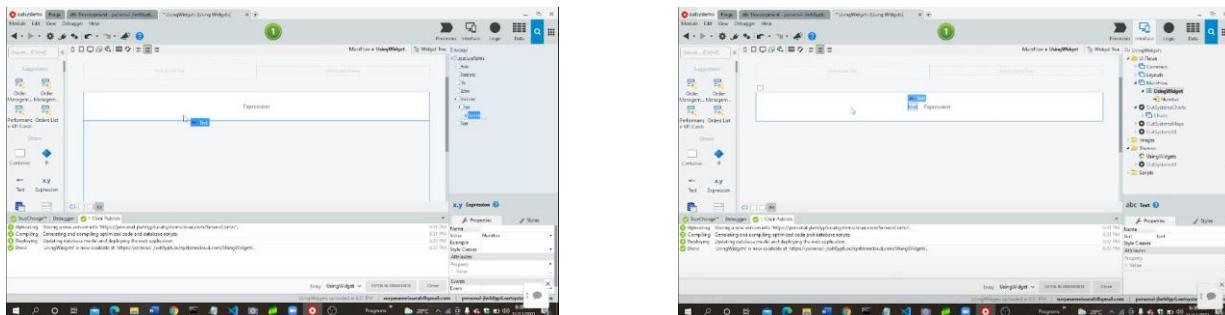
22. Drag the number to the main content



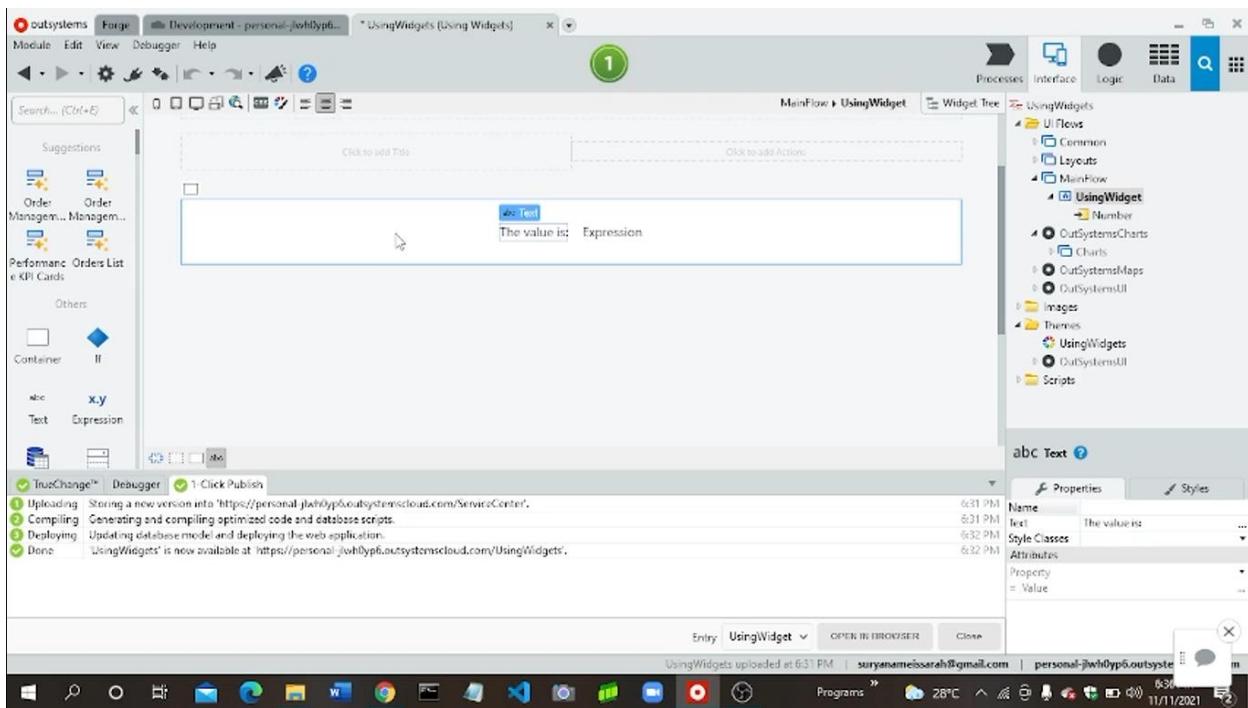
Will show like this



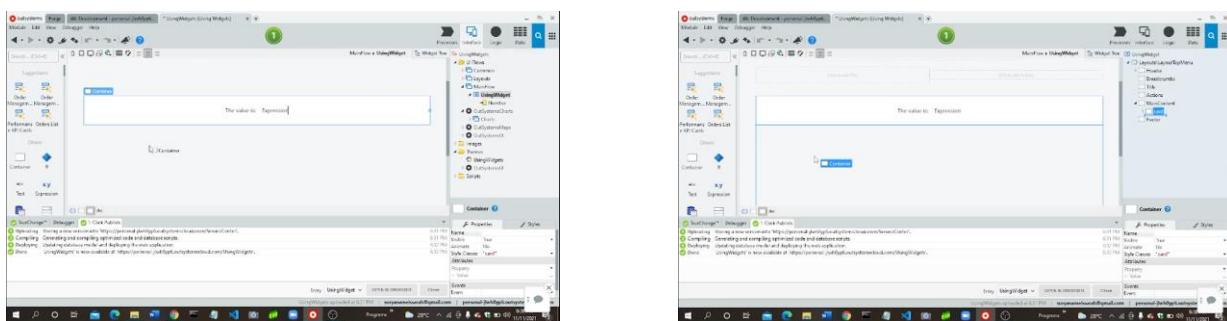
23. Then drag text” to add the text



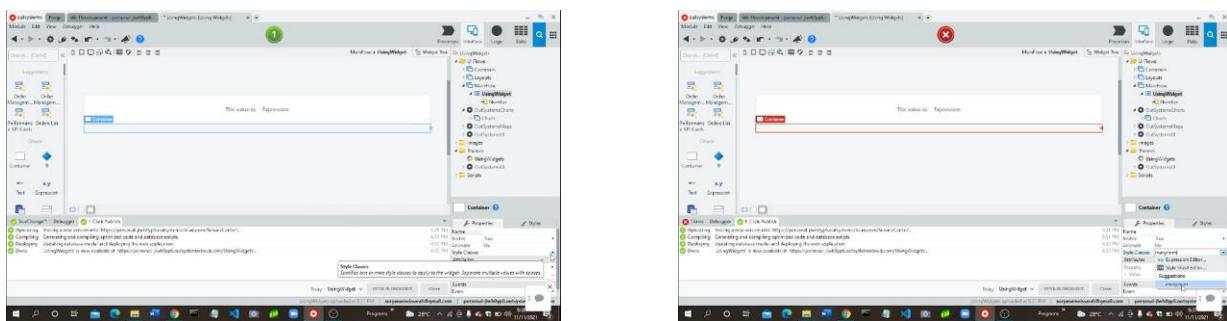
24. Here I add text “The value is:”



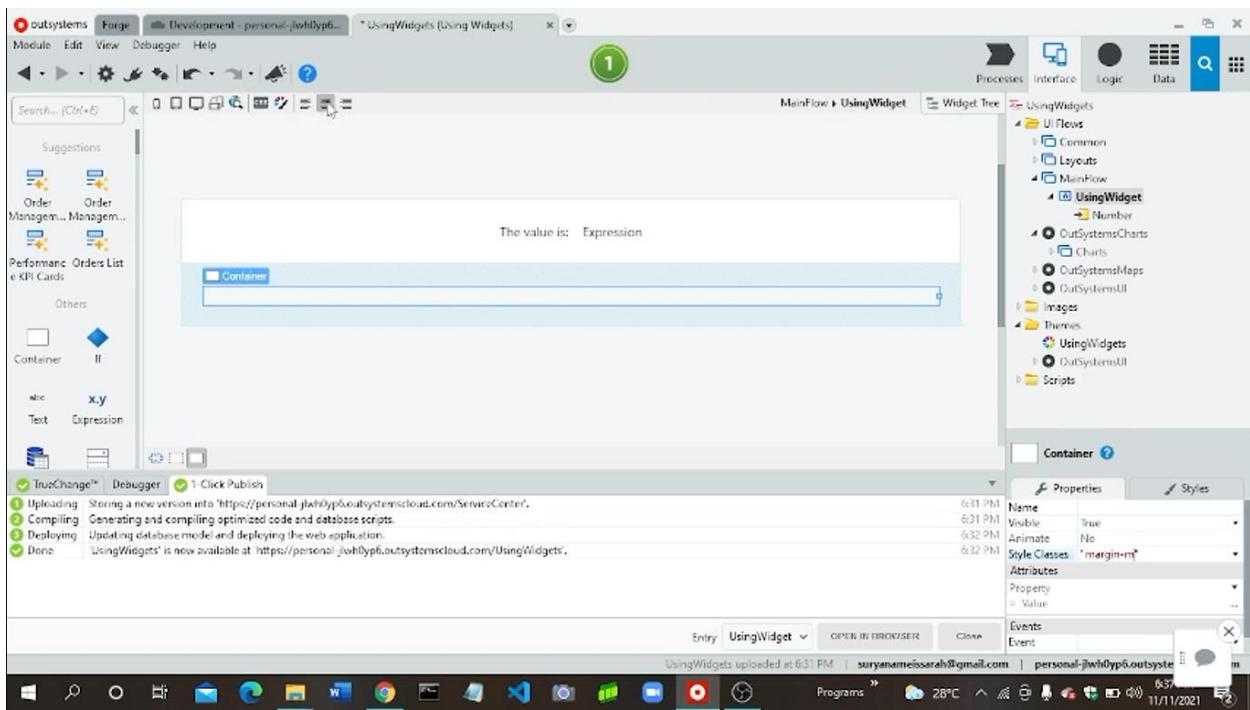
25. Drag again container



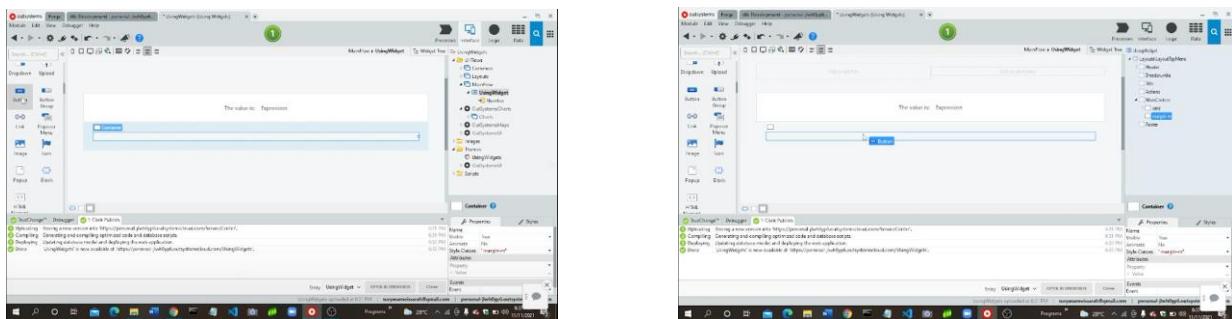
26. Choose style classes and choose “margin-m”



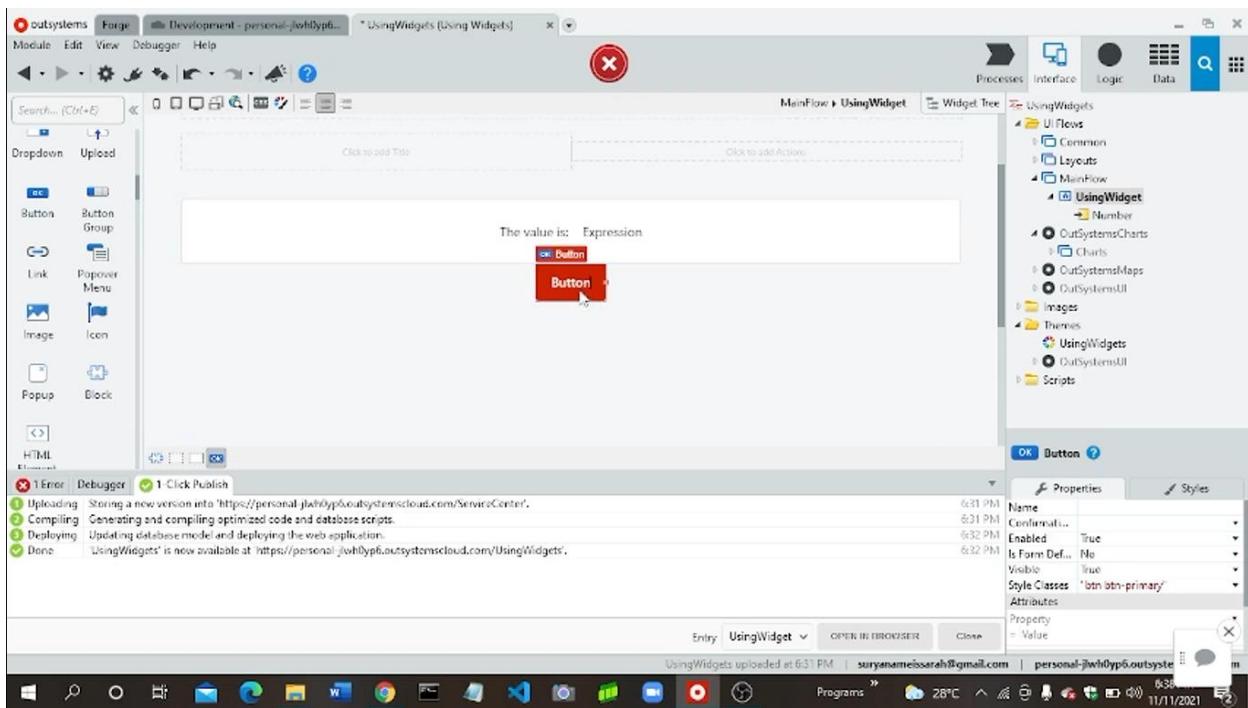
27. Make to the center again



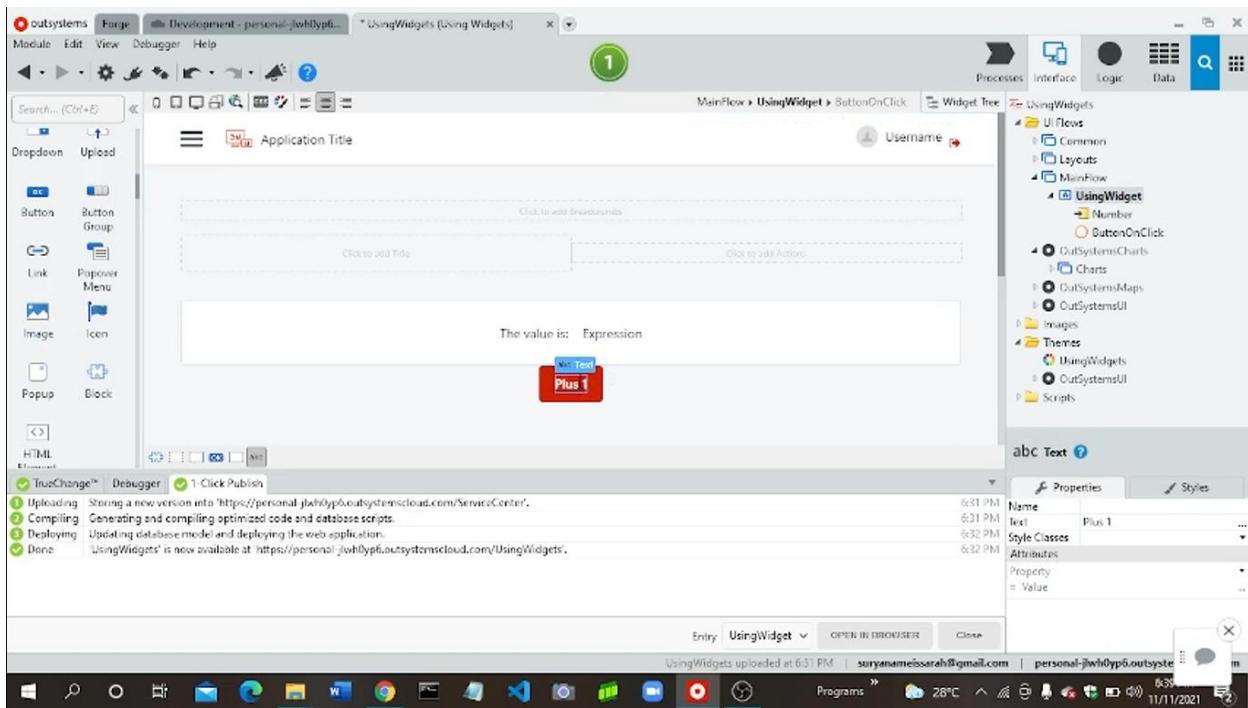
28. Drag button



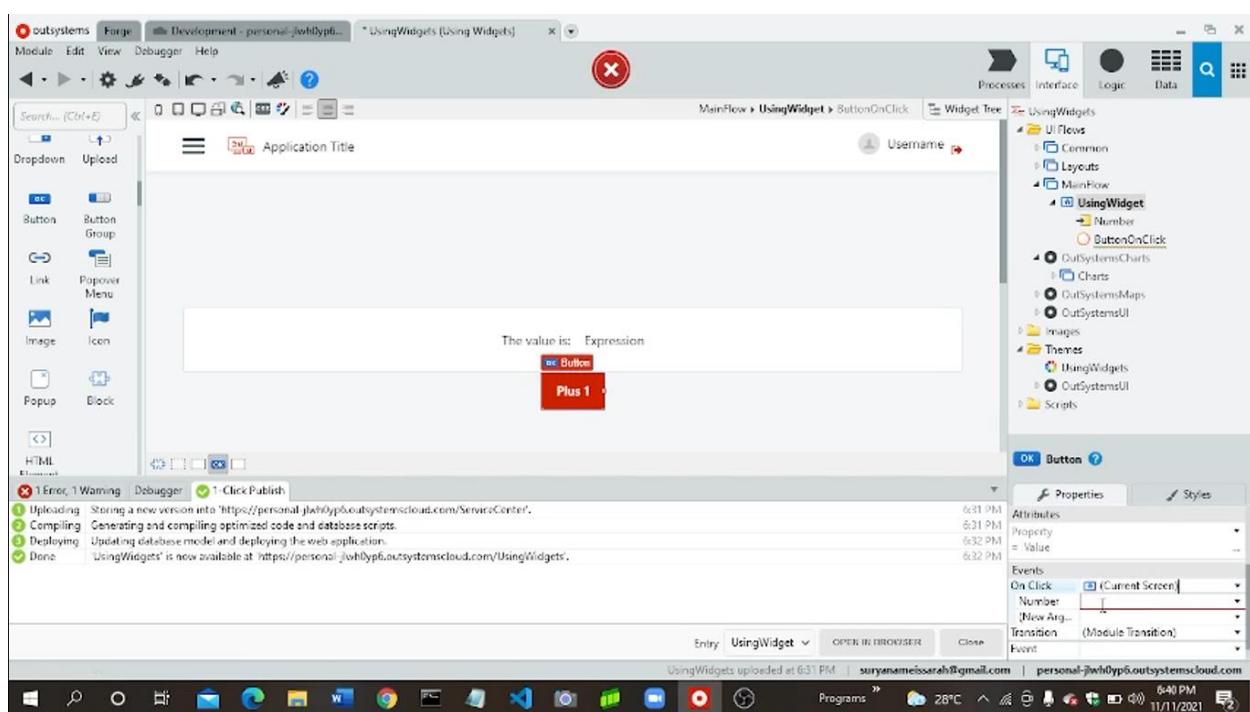
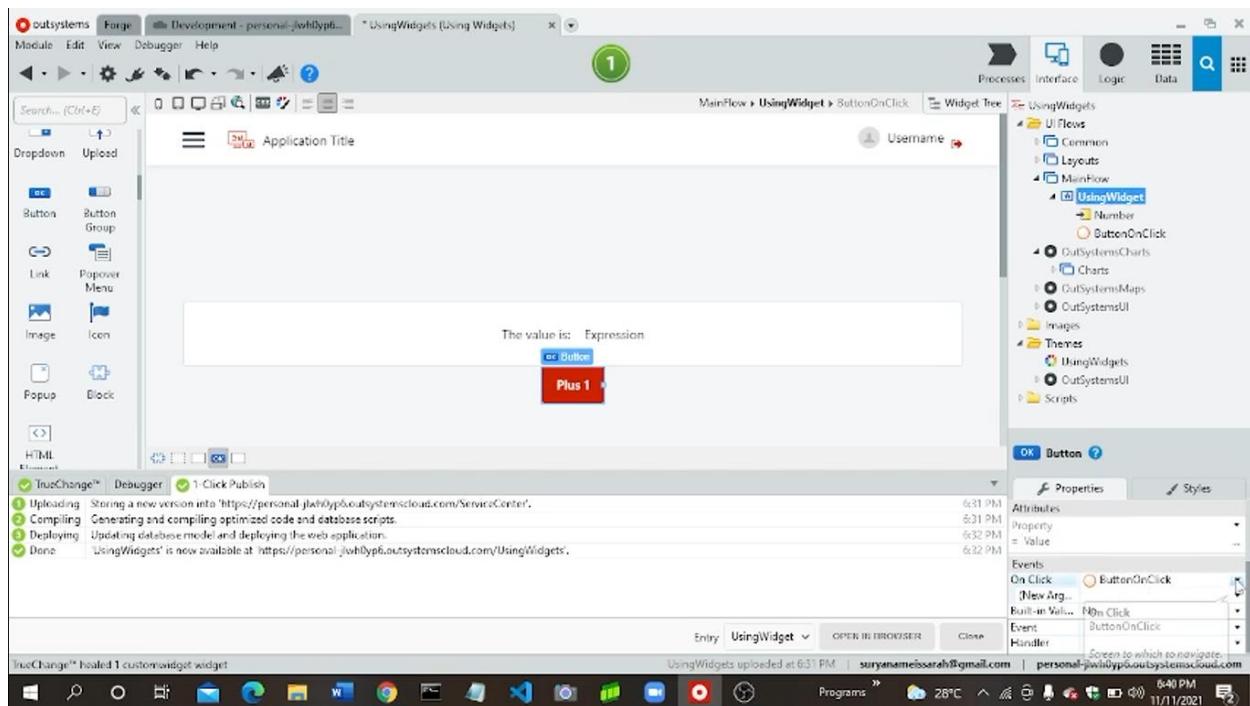
29. Make the button to center



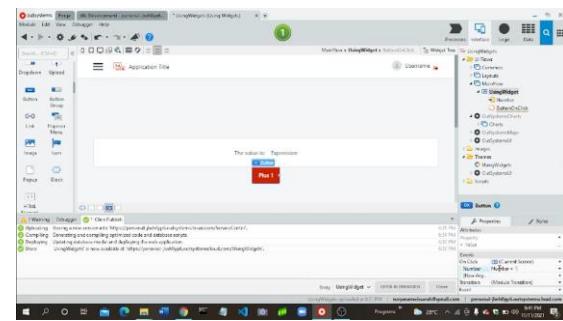
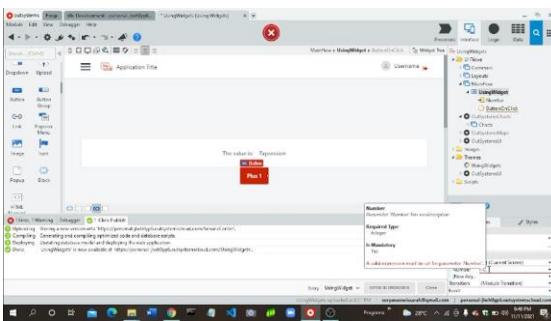
30. Change the text on the button become “Plus 1”



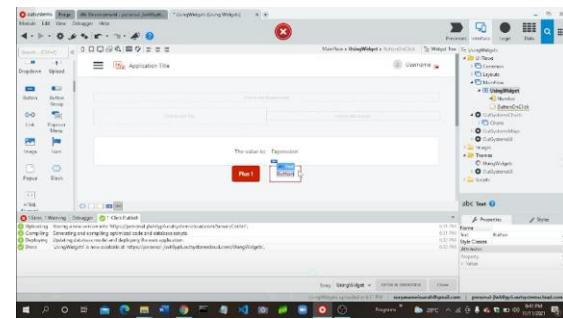
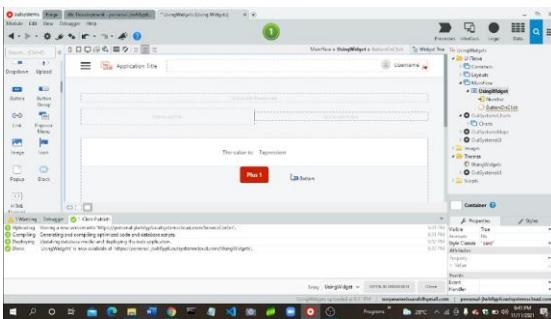
31. Change “ButtonOnClick” become “Current Screen”



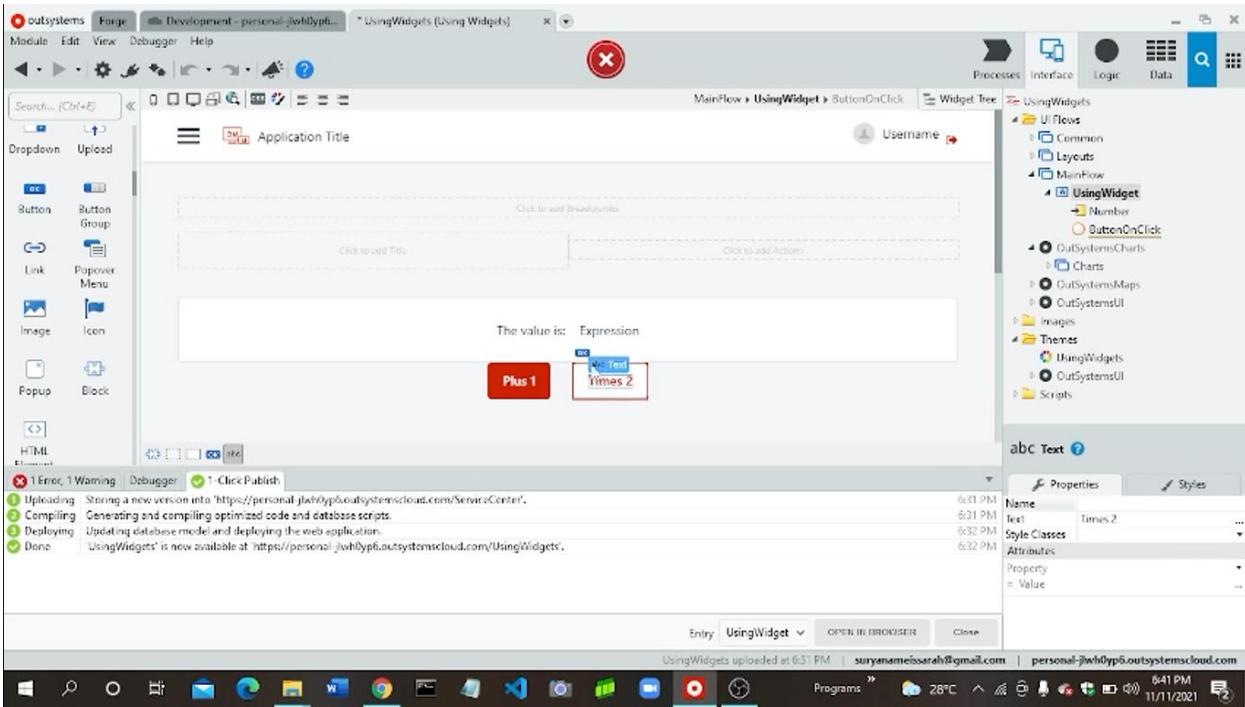
32. Add text “Number + 1” on the Number



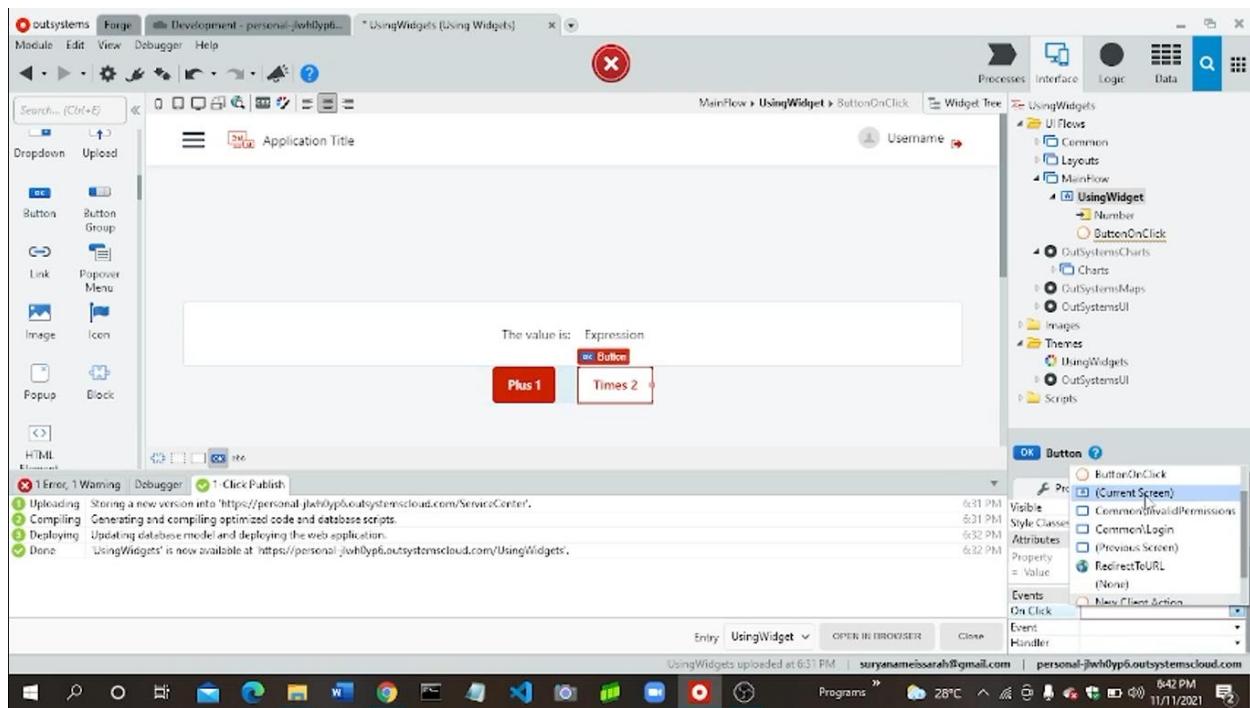
33. Make one other button



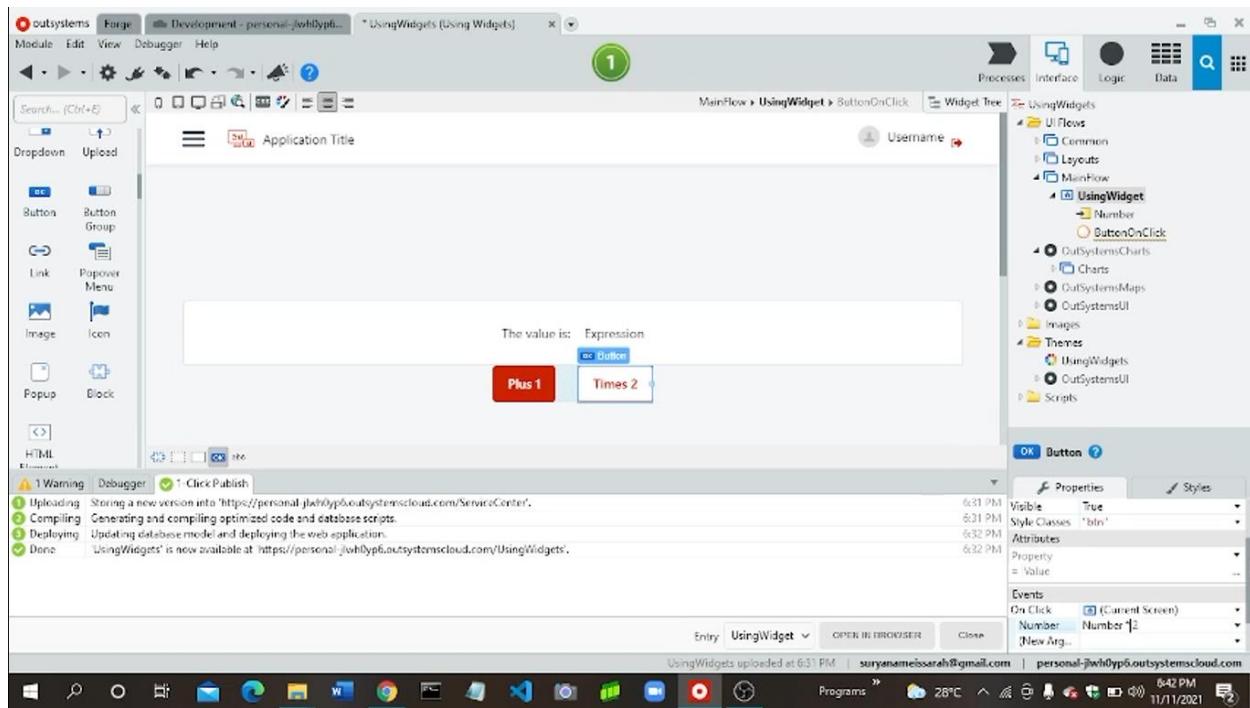
34. Change the text on button into “Times 2”



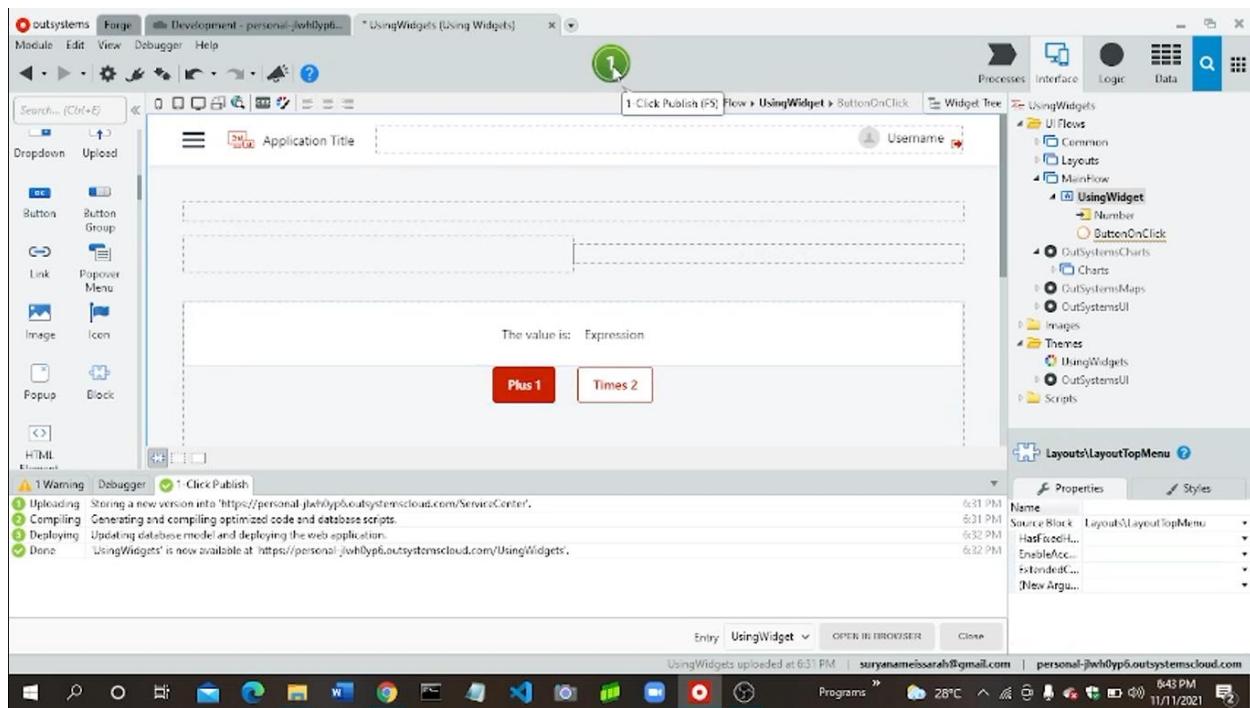
35. Change again “ButtonOnClick” into “Current Screen”



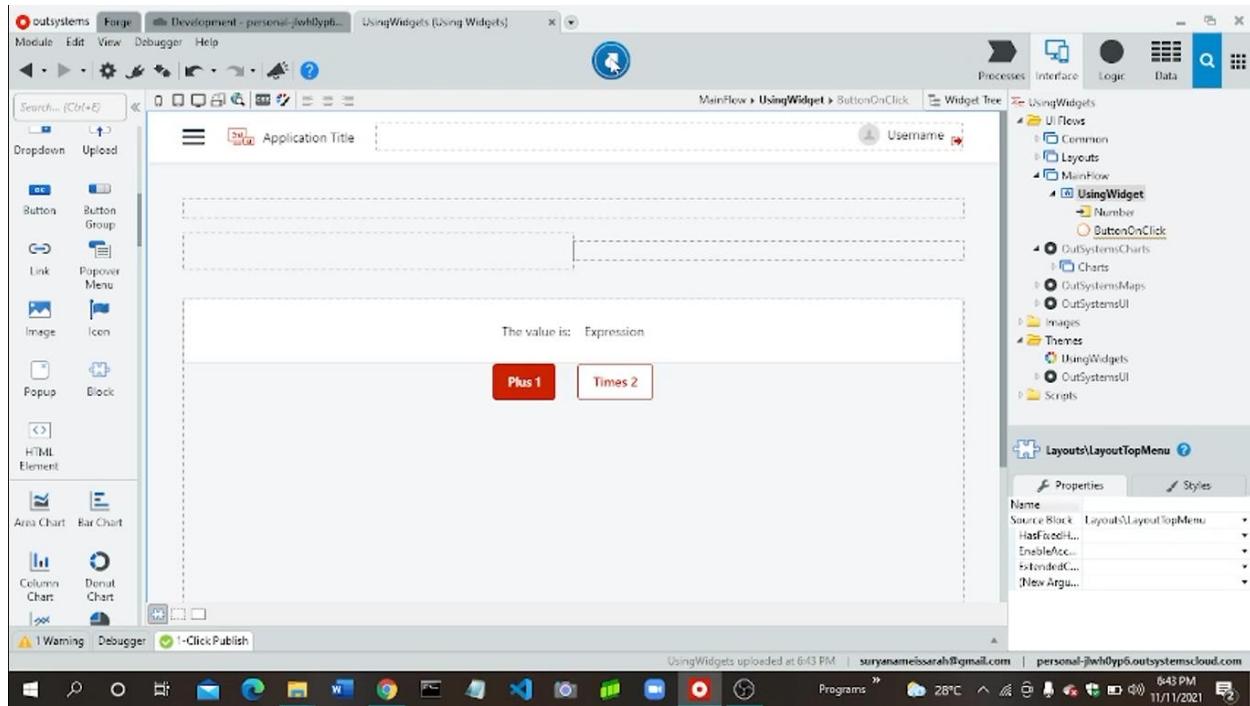
36. Change the number into “Number * 2”



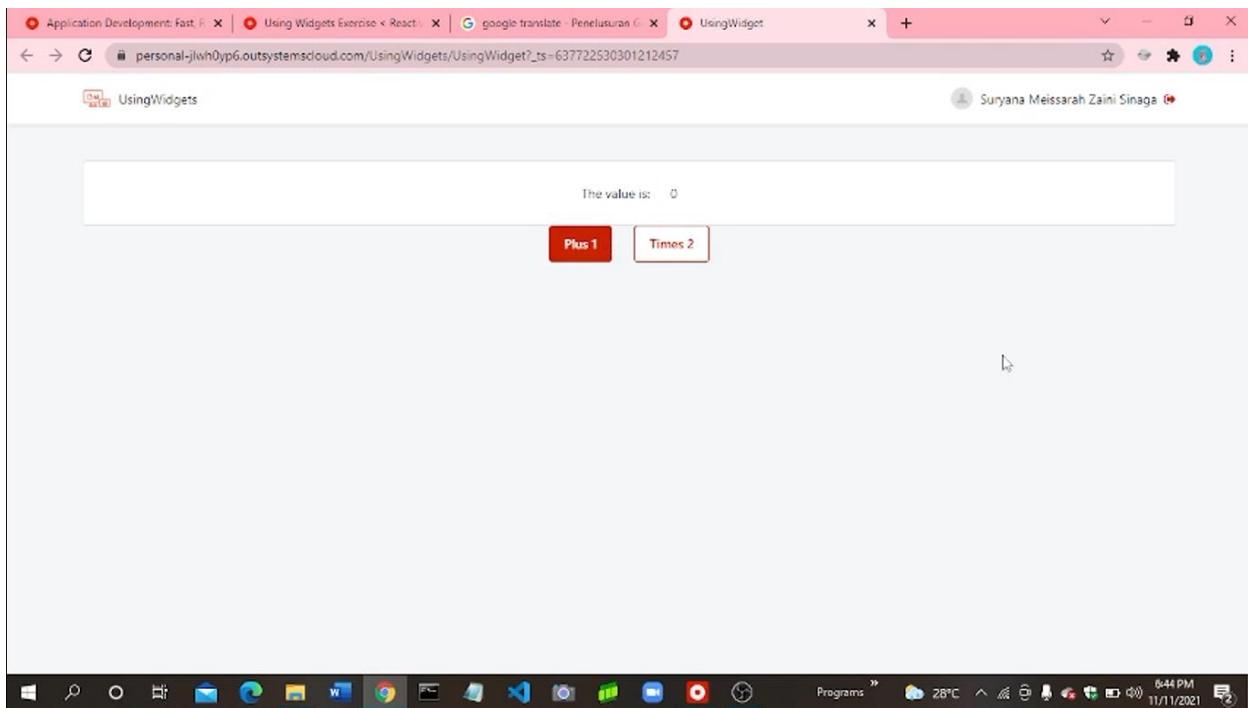
37. Publish the screen by clicking “1-Click Publish”



38. Open on browser

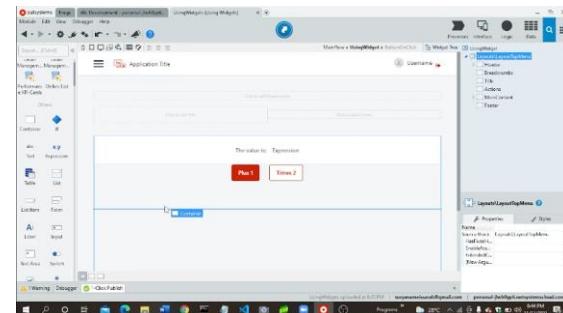
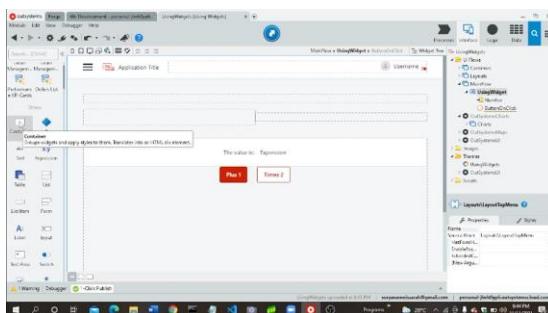


39. Will show like this

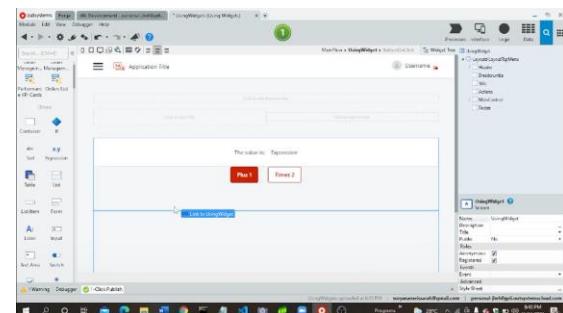
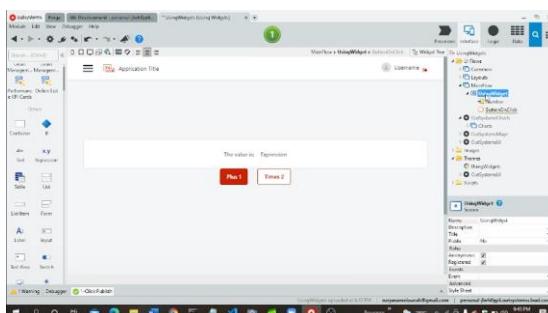


40. Drag again “container into our screen”

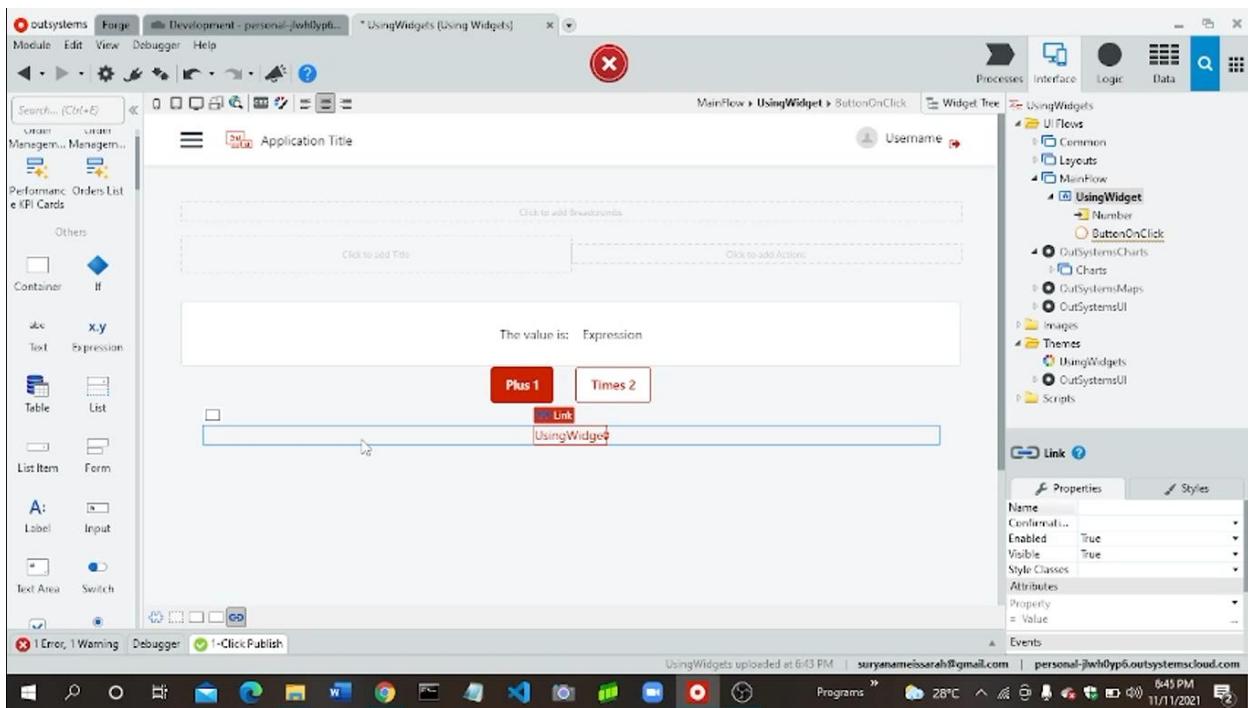
Below the button we have made



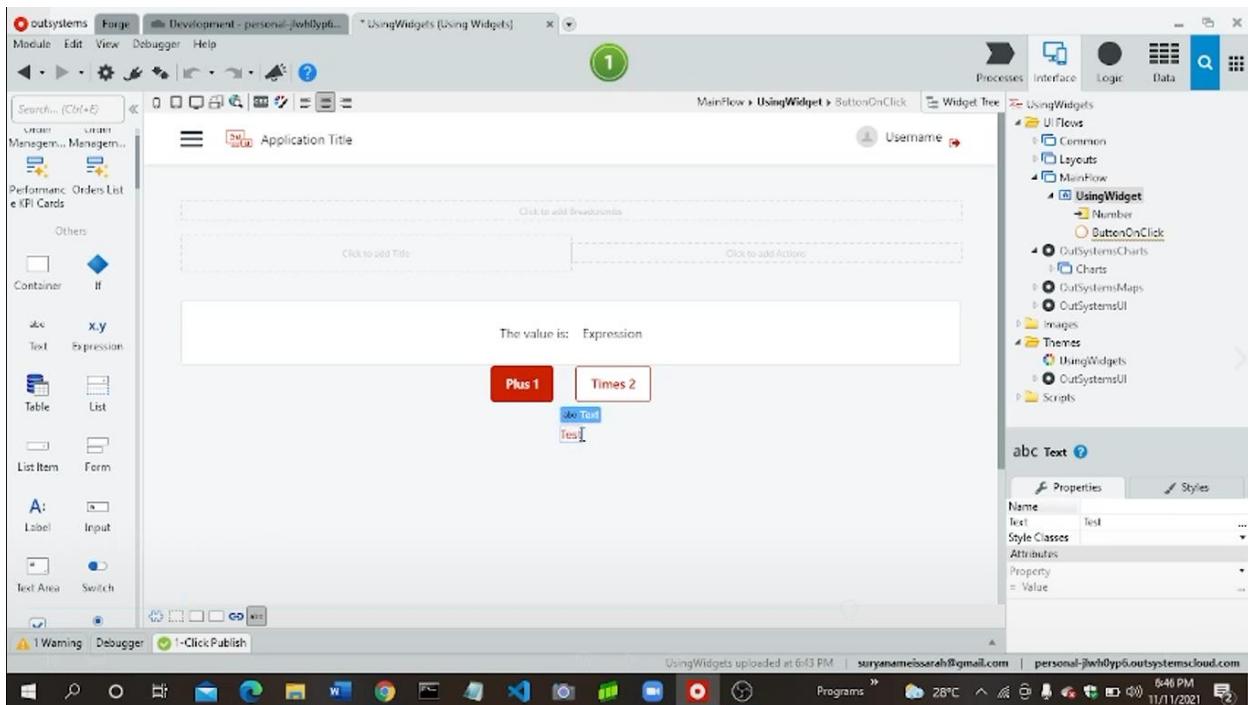
41. Drag “usingwidget” again to screen



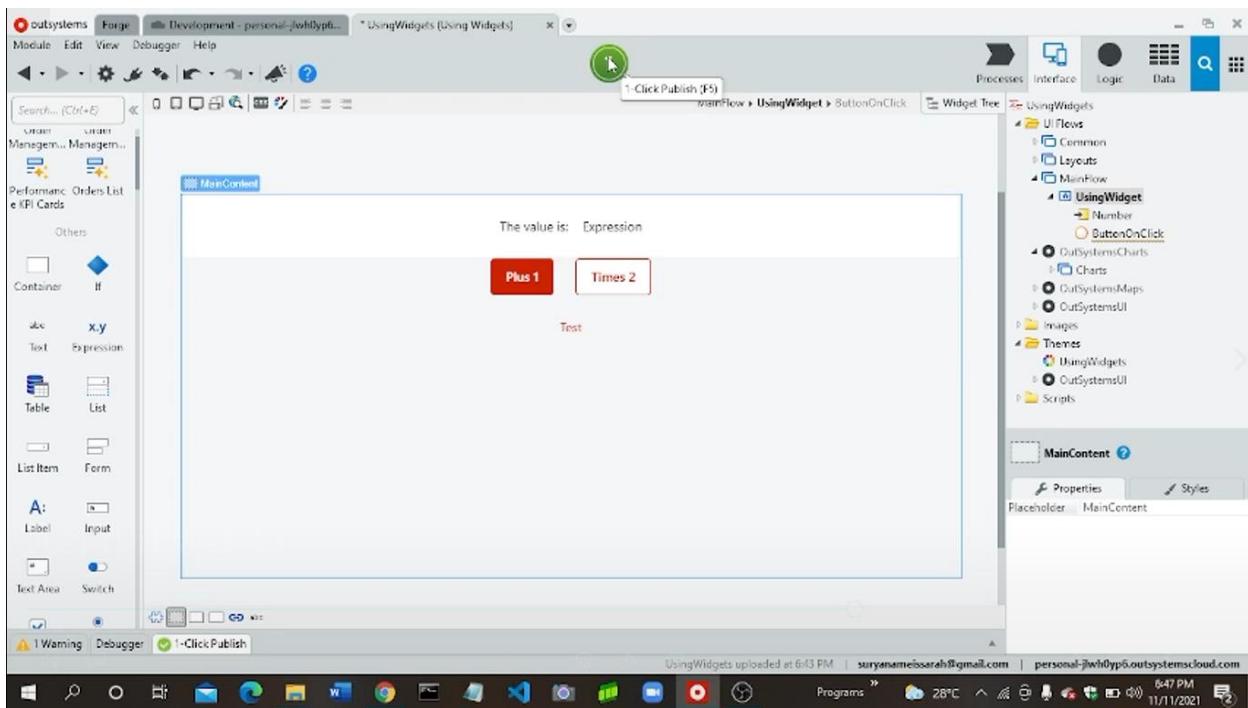
42. Make “UsingWidget” to center



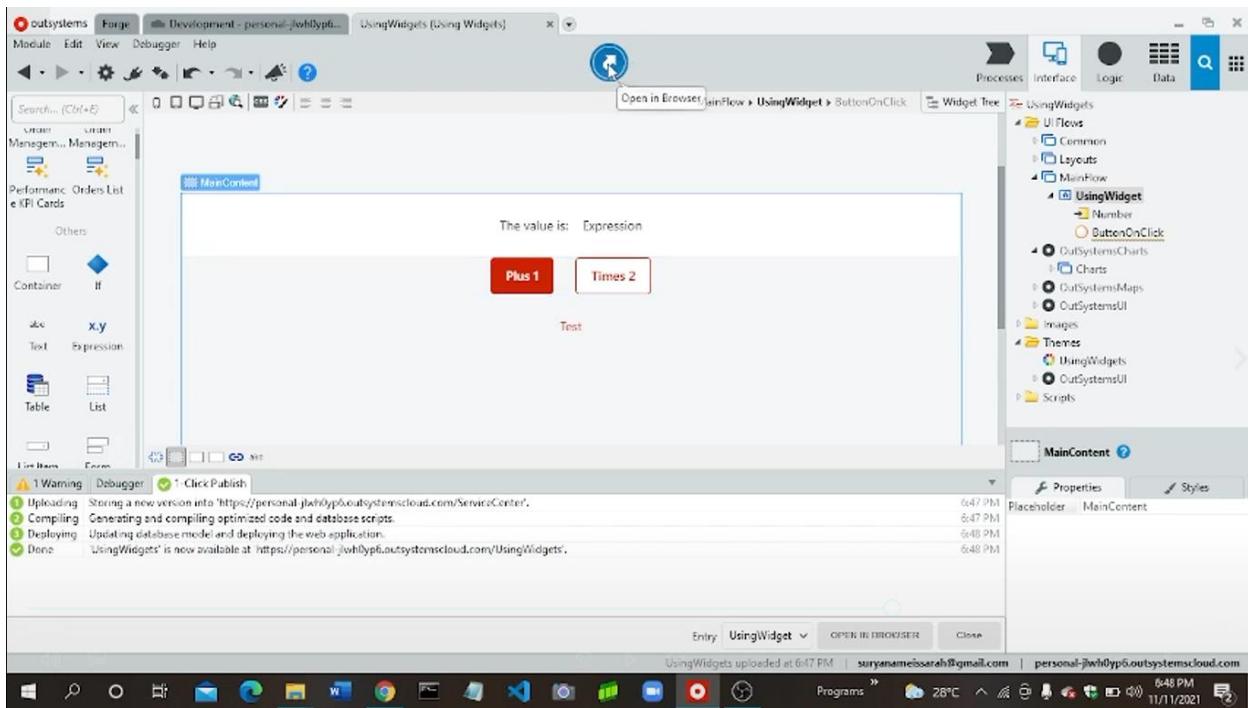
43. Change the text “UsingWidget” become “test”



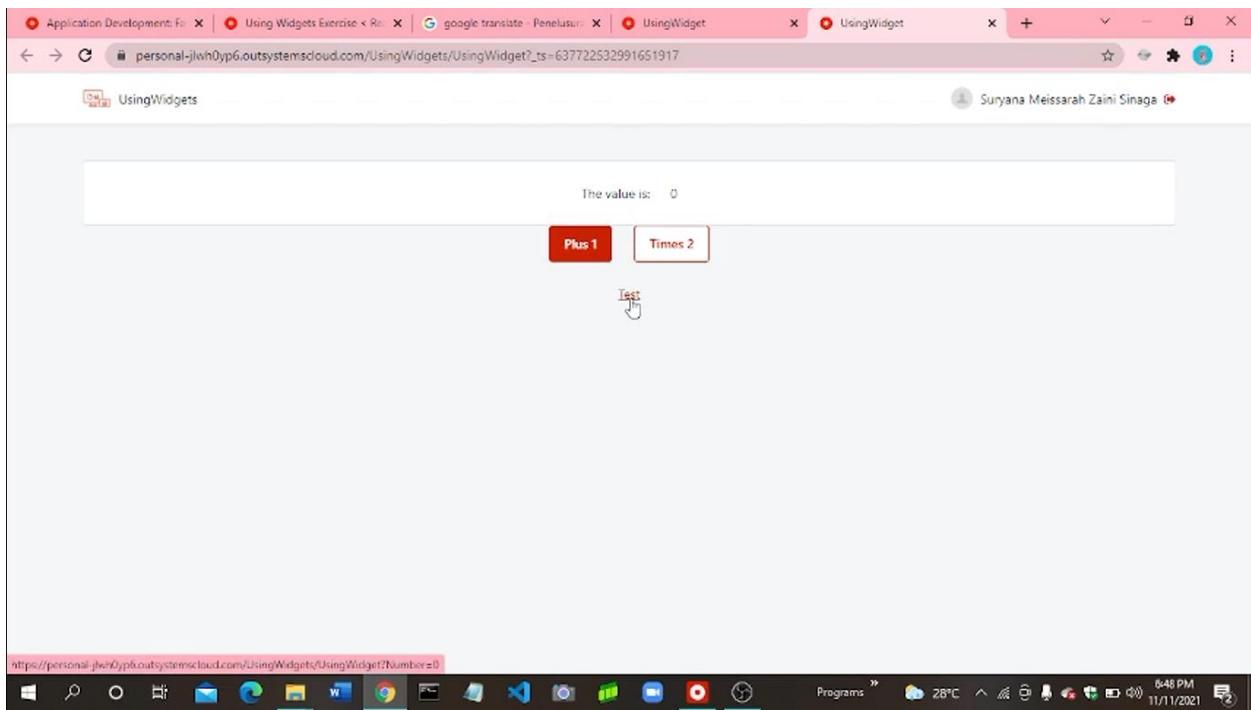
44. Then publish



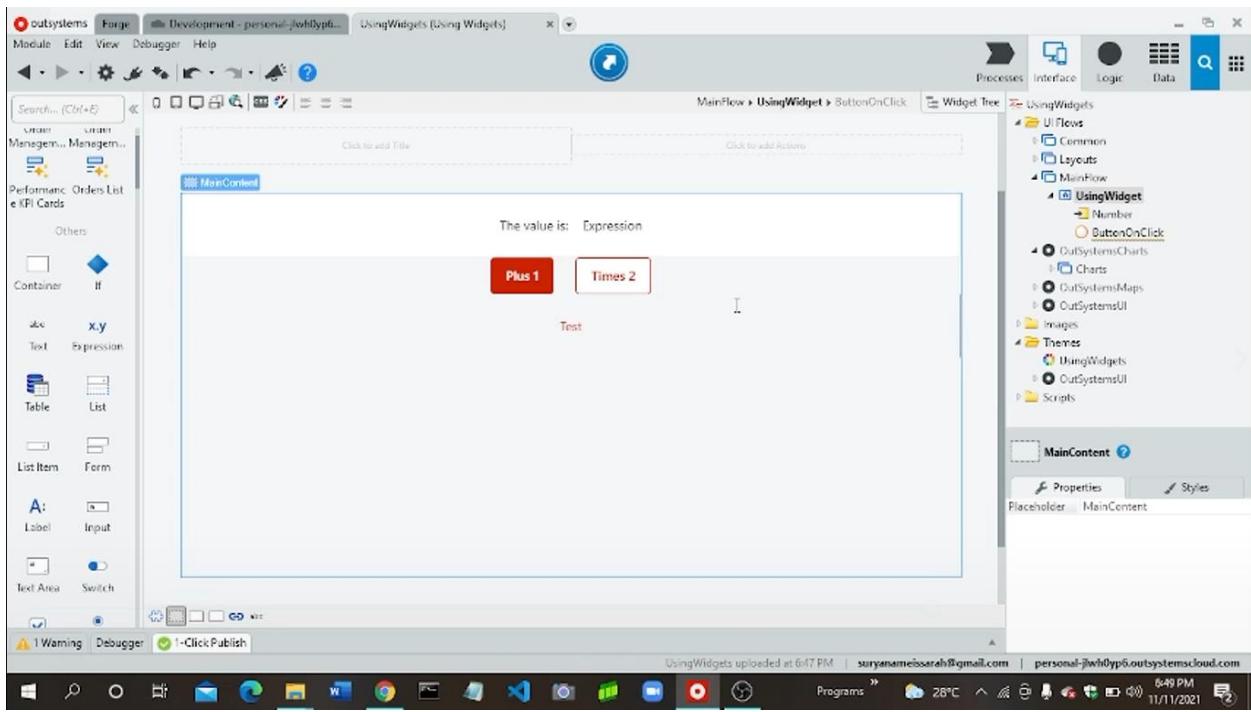
45. Open in browser



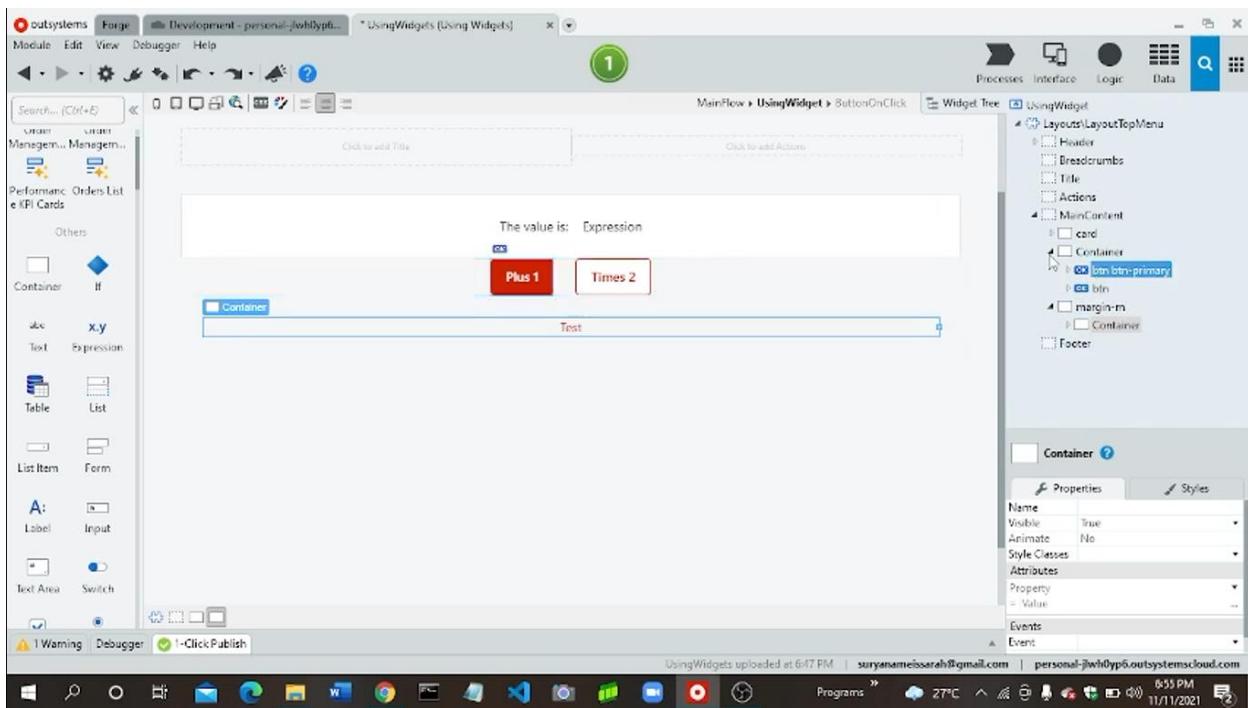
46. It will show like this in browser



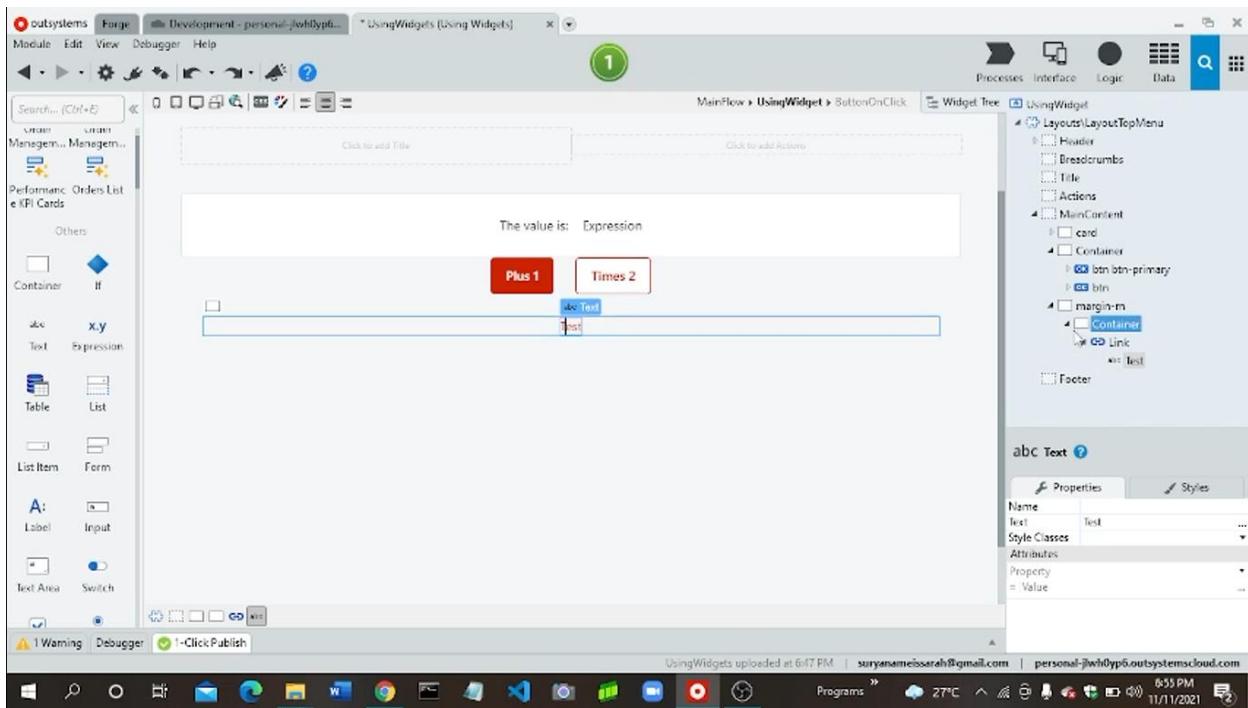
47. Back to our screen



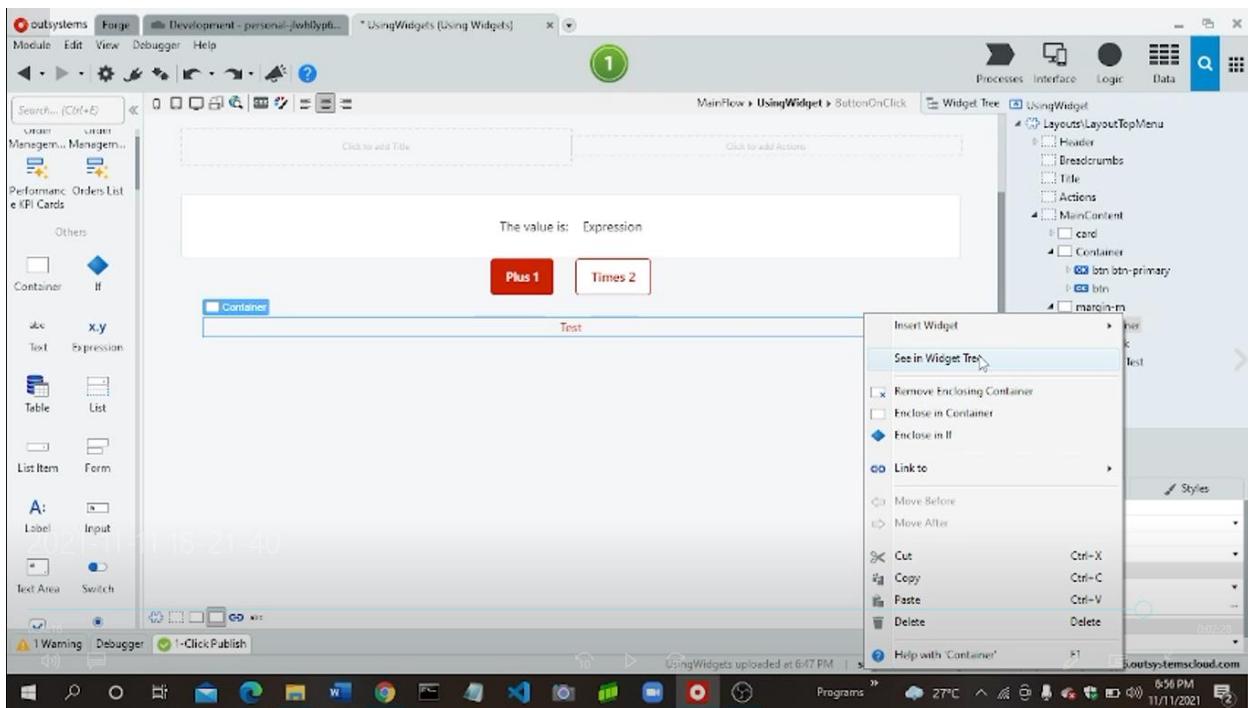
48. Make your cursor on the “Test” area



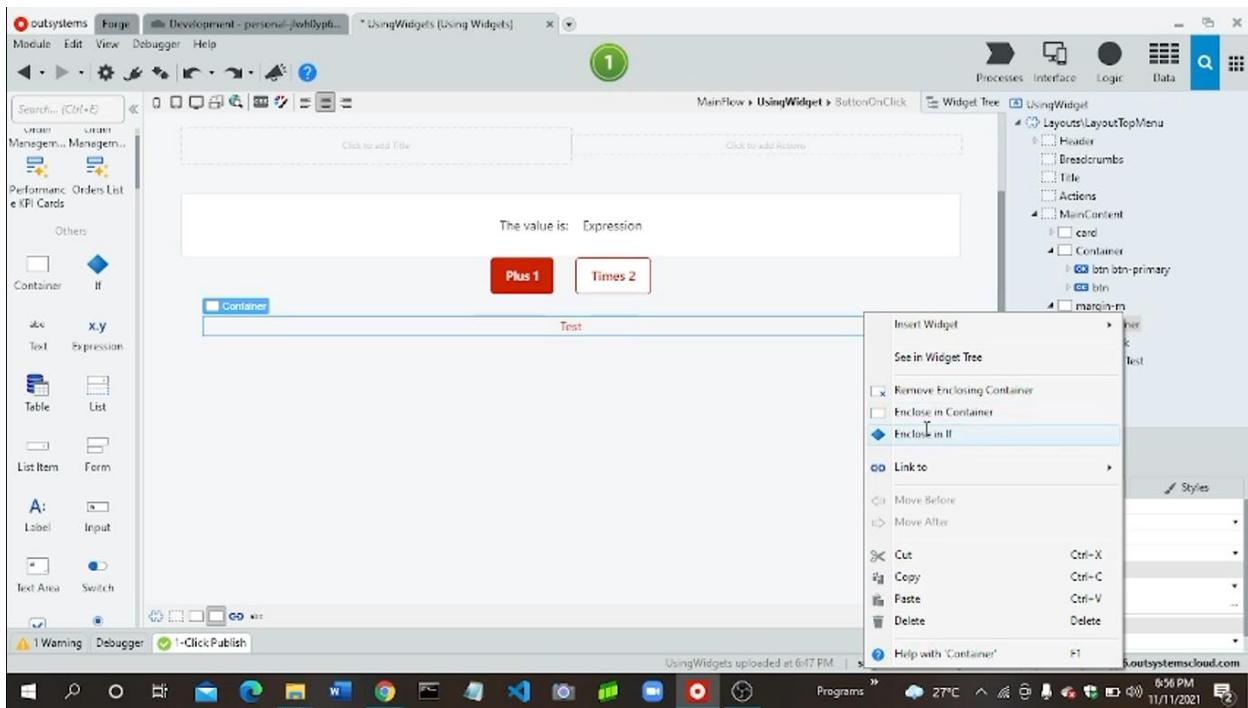
49. To “MainContent” then “Container” the click “margin-m”



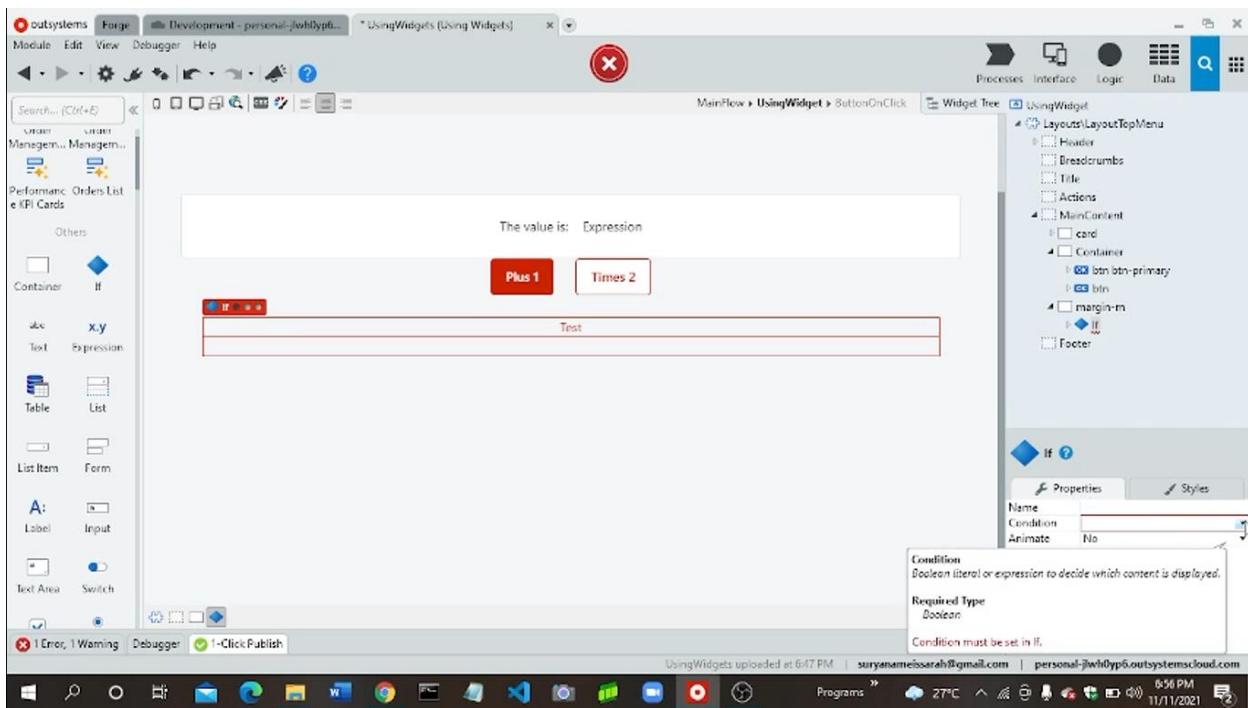
50. Right click on the “Container”



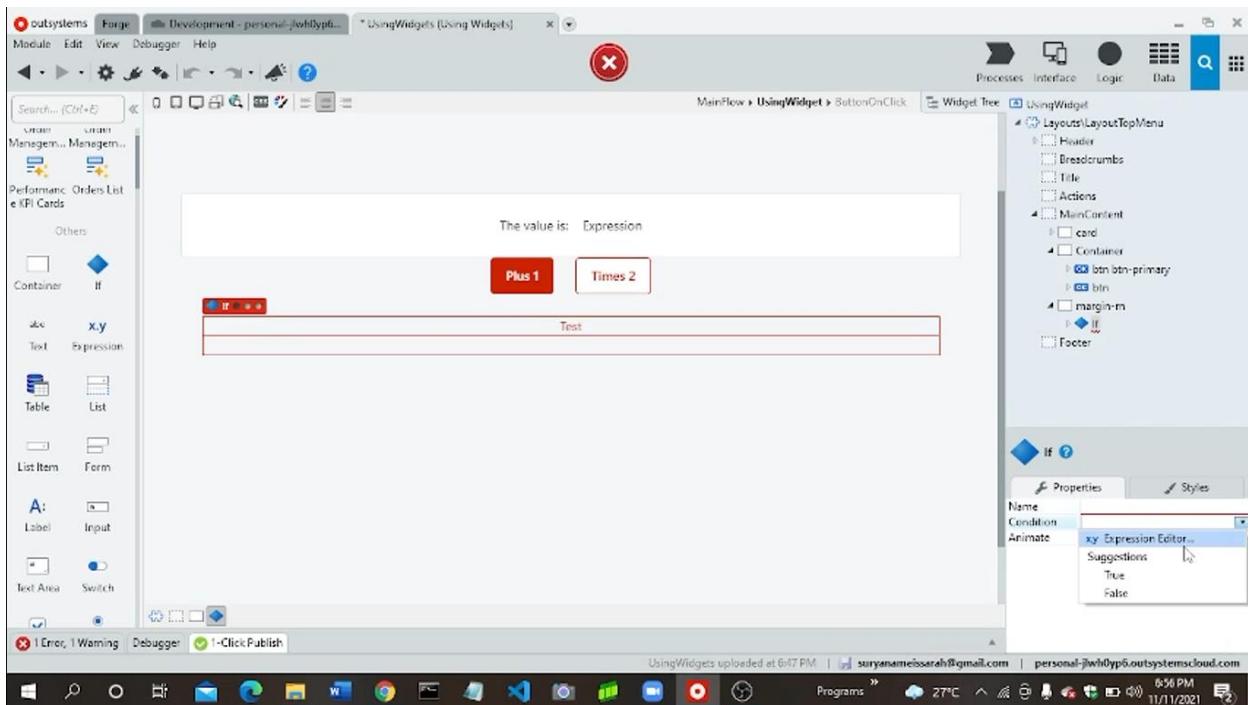
51. Click “Enclose in If”



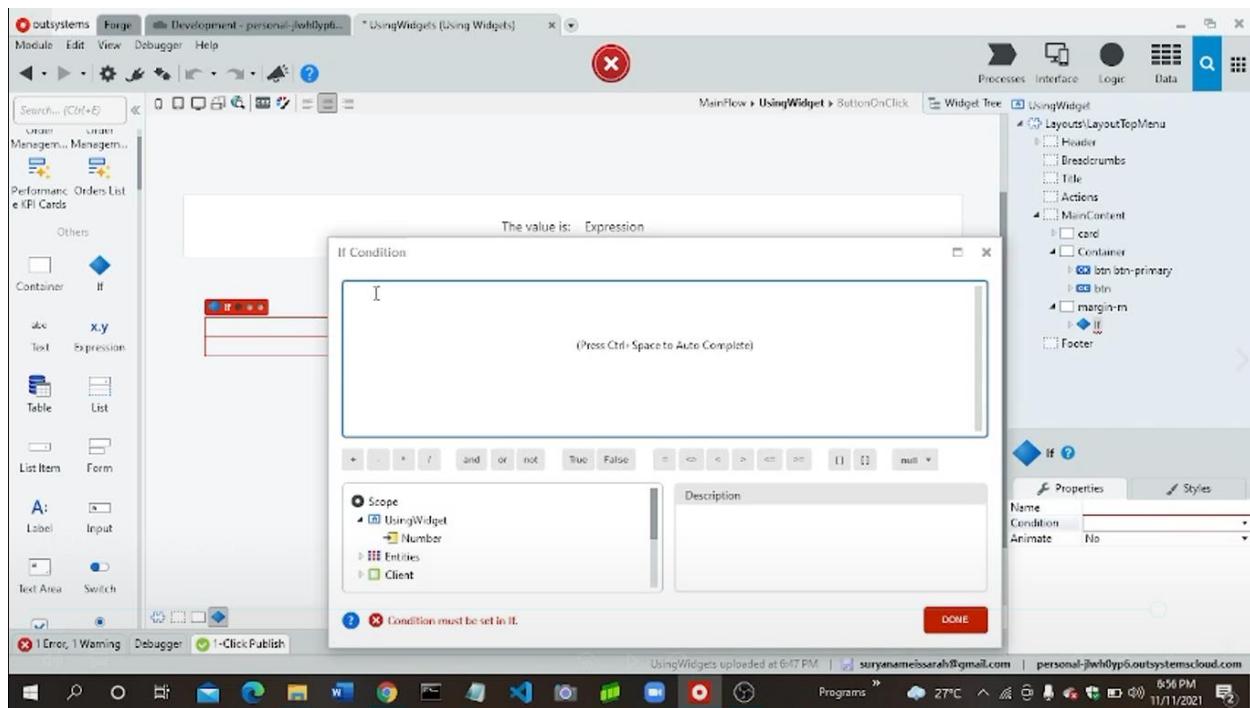
52. The go to “Condition”



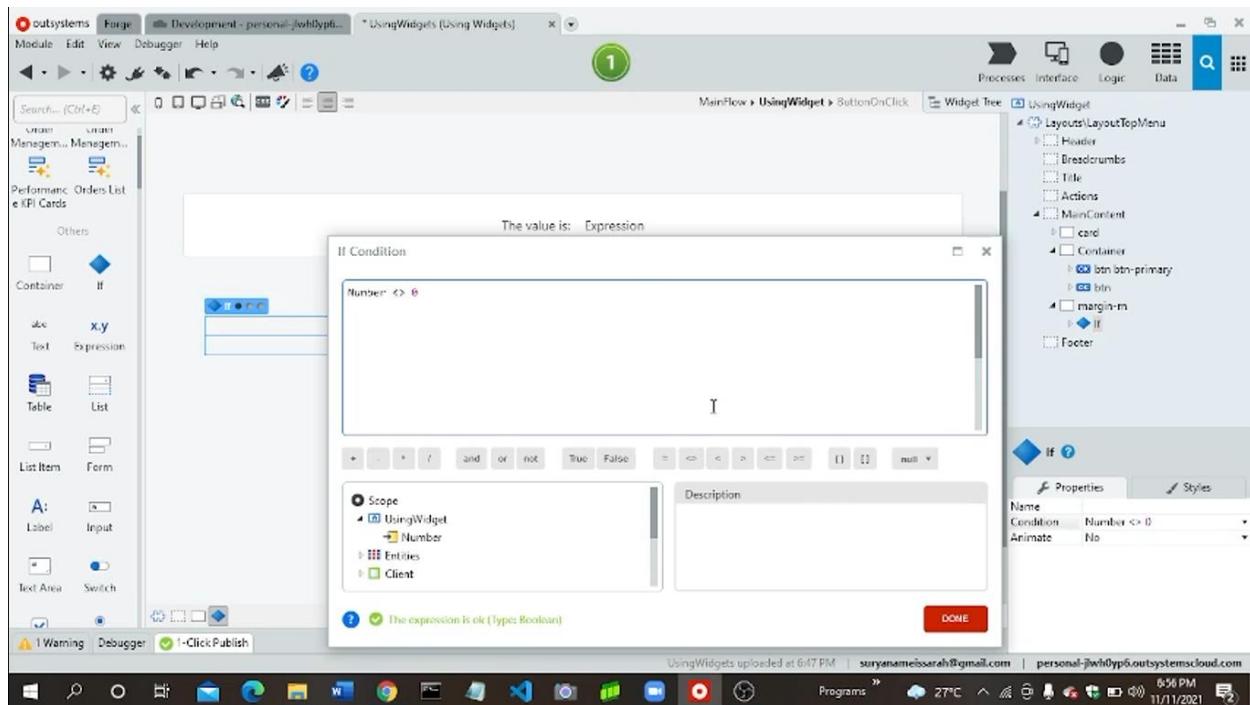
53. Choose “Expression Editor”



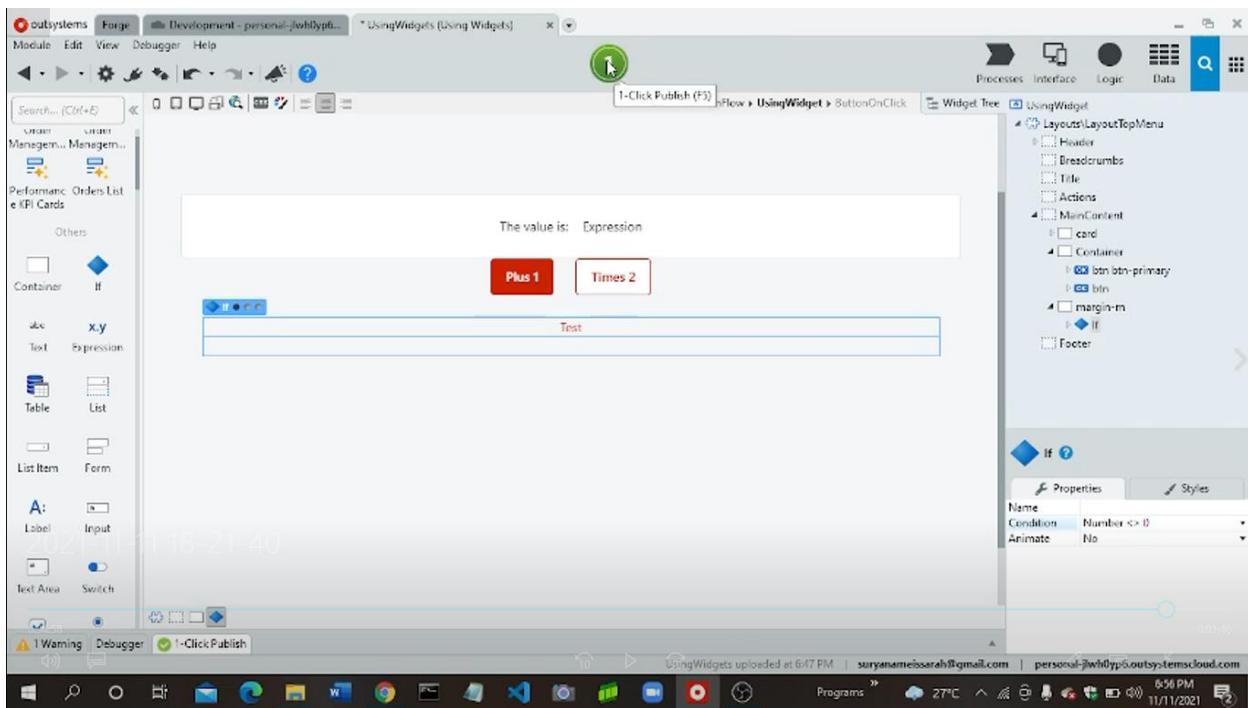
54. It will show like this



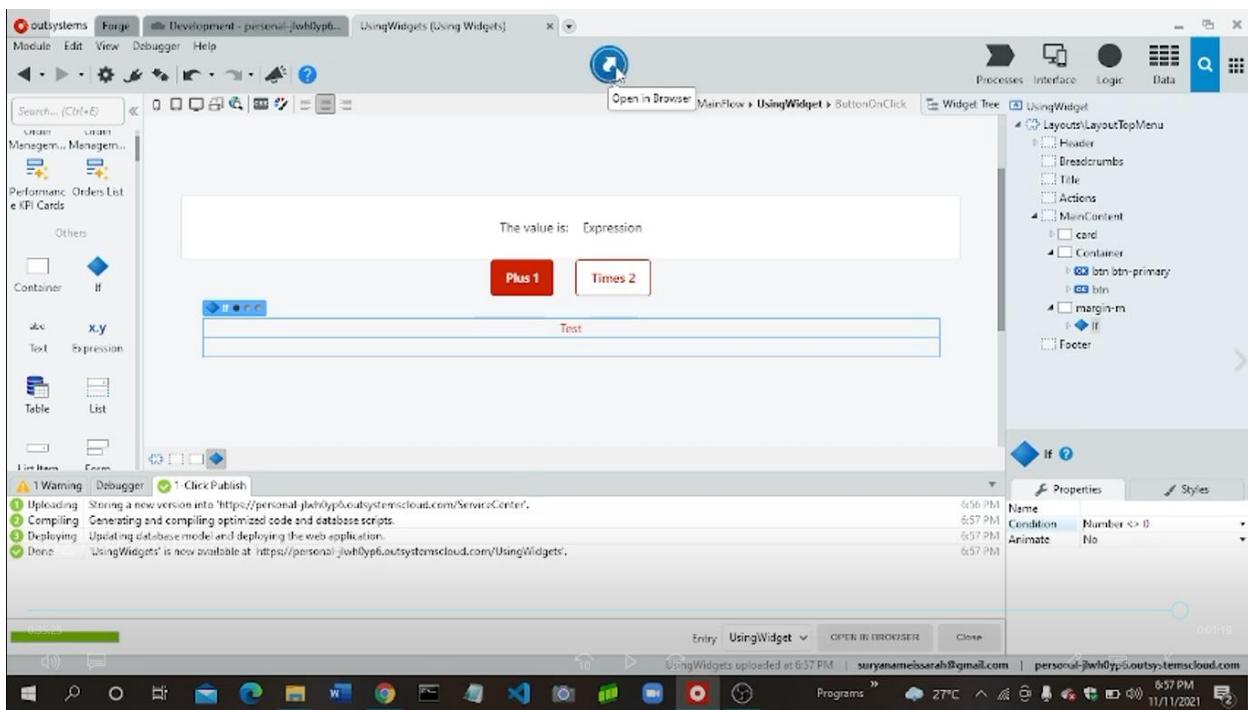
55. Type “Number <> 0” on the space then click “DONE”



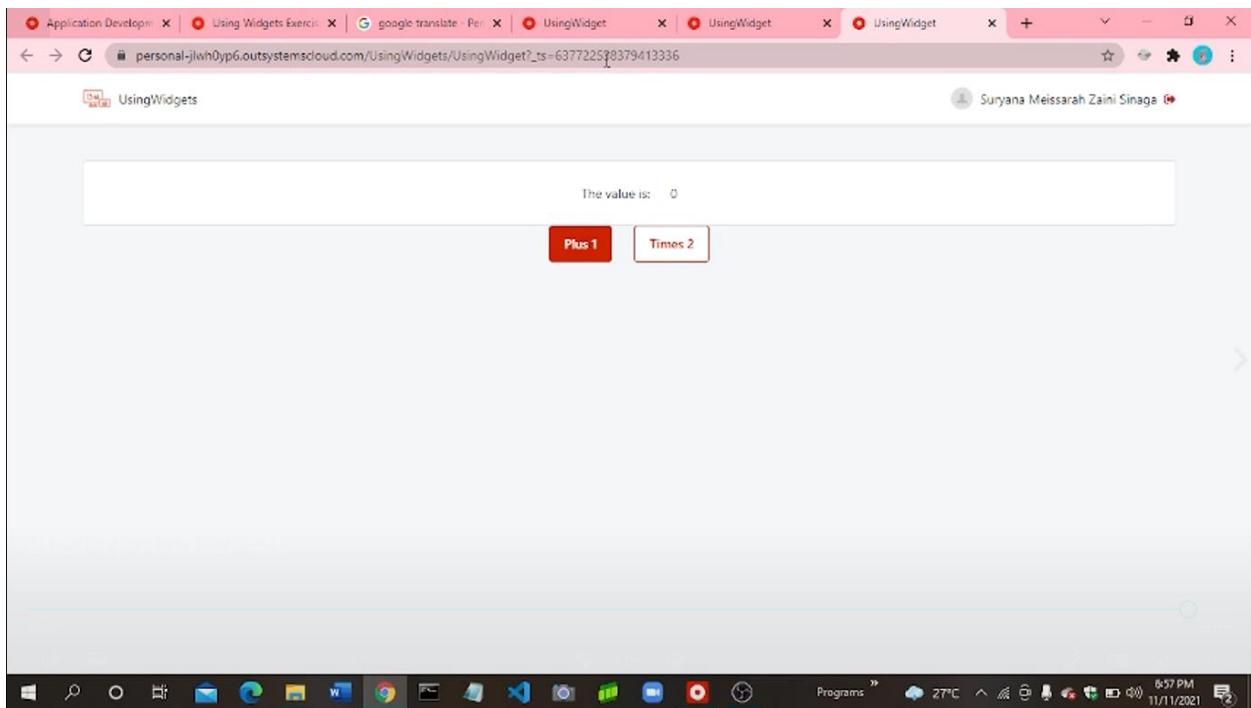
56. Click again “1-Click Publish”



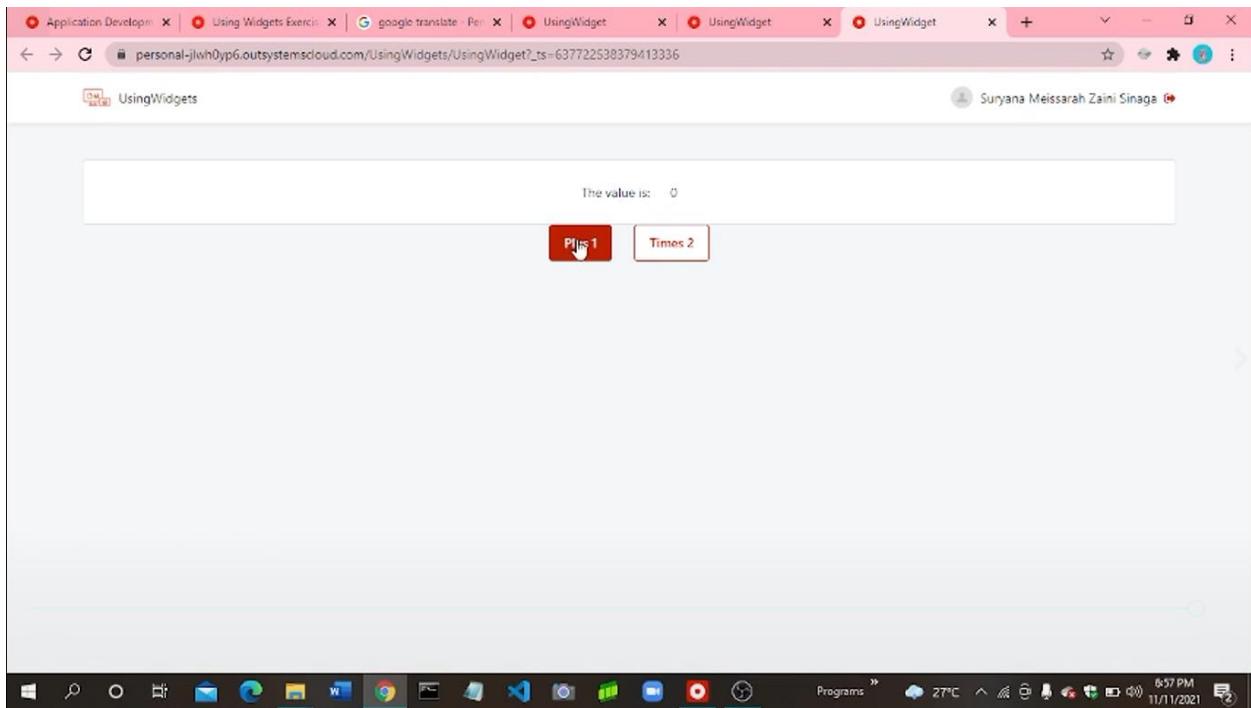
57. Open on browser



58. Will show like this



59. Click “Plus 1”



60. It will show like this

The value first 0 change to 1 and the “Test” button appear

