

## Step 1: Capture domain logic

```
server <- function(input, output, session) {

  downloads <- metaReactive({
    cranlogs::cran_downloads(
      input$package,
      from = Sys.Date() - 365,
      to = Sys.Date()
    )
  })

  downloads_rolling <- metaReactive2({
    validate(need(sum(downloads()$count) > 0, "Input a valid package name"))

    metaExpr({
      downloads() %>%
        mutate(count = zoo::rollapply(count, 7, mean, fill = "extend"))
    })
  })

  output$plot <- metaRender(renderPlot, {
    ggplot(downloads_rolling(), aes(date, count)) + geom_line()
  })
}
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  downloads <- metaReactive({  
    cranlogs::cran_downloads(  
      input$package,  
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    )  
  })
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reactive becomes  
metaReactive

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  downloads_rolling <- metaReactive2({  
    validate(need(sum(downloads())$count) > 0, "Input a valid package name"))
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    metaExpr({  
      downloads() %>%  
        mutate(count = zoo::rollapply(count, 7, mean, fill = "extend"))  
    })  
  })
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```
  output$plot <- metaRender(renderPlot, {  
    ggplot(downloads_rolling(), aes(date, count)) + geom_line()  
  })
```

render functions  
must be wrapped in  
metaRender

```
}
```