Archit Kumar 22 B CE 3556 library (shiny) library (89blot2) library (dhlyr) library (shinydashboard) library (viridis) dataset <- data frame ( hour = rep (0:23, each = 5) route = rep (paste (" Route", 1:5), times = 24 riders = sample (50: 500, 120, replace = TRUE) occupancy = sunif (120, 0.3, 1); weather = sample (c ("Sunny", "Rainy", "Cla 120, replace = TRUE # U1 vi <- dashboard Page (
dashboard Header Ctitle = Data Ville Transport dashboard Sidebari ( 111 select Input ("requte", "Select Route:" choices = unique (dataset & souté) solected ="Route 1"), siderInput ("-time", "Scled Hour:", min=0, marc= 23, value = c (6,18)) deshboard Body box (plot Output ("heatmap"), width=6), box (plot Output ("preuporcy\_hart"), width=6 fluid Row (

fluid Row (
box ( flotOutput ("weather\_vs\_satisfaction"), width

box ( plotOutput ("trip\_duration"), width=6) = 6

# Segver server < function (input, output) 2 filtered\_data < neartive (1 dataset %. > % filter ( route == input & route) hower = input \$ time [1], hower = input &time output & heat map <- render Plot (1 applot (filtered\_data (), as (2 = hour, y-route, fill= riders)) + geom \_ tile () t scale \_ fill \_ vircidis. (option = "magma") + labs (title = "Bus Riders per hour", x = "hour", y = "Route") output & occupancy chart < gender Plat (3) agplot (filtred data (); as (u= koute; y=occipon fill- route))+ geom \_ bar (stat = "identity") + labs ( title = "Reute Occupancy 1 evels."; 12- Route
y = "Occupancy") output & weather -vs satisfaction <- renderplot (9 geplat (filtered data (), con nes (n= weather, y= satisfaction, color = weather)) + geom \_boxplot () + labs (title = "Weather us Rider Satisfaction", 21= "Weather", y = " Satisfaction Score") shing App (vi, sorver)

samuel todo 1/2