server.R

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```
#* @get /sampleGetOpt
sampleOpt <- function(observations){</pre>
  sample(1:100, as.numeric(observations), replace = TRUE)
}
#* @get /sampleNoReplaceGetOpt
sampleOpt <- function(observations){</pre>
  sample(1:100, as.numeric(observations), replace = FALSE)
}
#* @post /normalOpt
normalOpt <- function(observations, mean, standardDeviation){</pre>
  rnorm(as.numeric(observations), as.numeric(mean), as.numeric(standardDeviation))
}
#* @get /normalGetOpt
normalOpt <- function(observations, mean, standardDeviation){</pre>
  rnorm(as.numeric(observations), as.numeric(mean), as.numeric(standardDeviation))
#* @get /uniformGetOpt
uniformOpt <- function(observations, minimum, maximum){</pre>
  runif(as.numeric(observations), as.numeric(minimum), as.numeric(maximum))
#* @get /exponentialGetOpt
exponentialOpt <- function(observations, rate){</pre>
  rexp(as.numeric(observations), as.numeric(rate))
```

Staring the sever via plumber

```
library(plumber)
r <- plumb("server.R")
r$run(port=8000)</pre>
```

Screenshots from browser

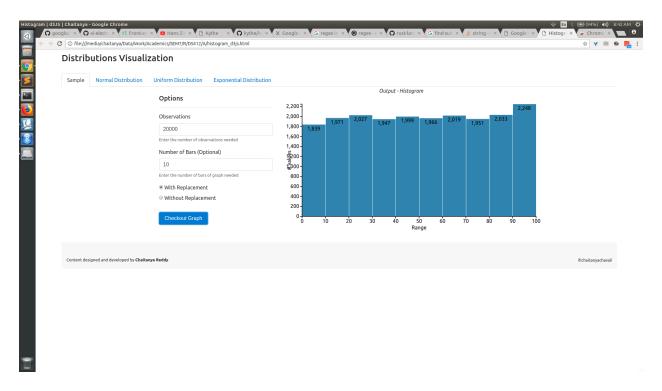


Figure 1: Sample.

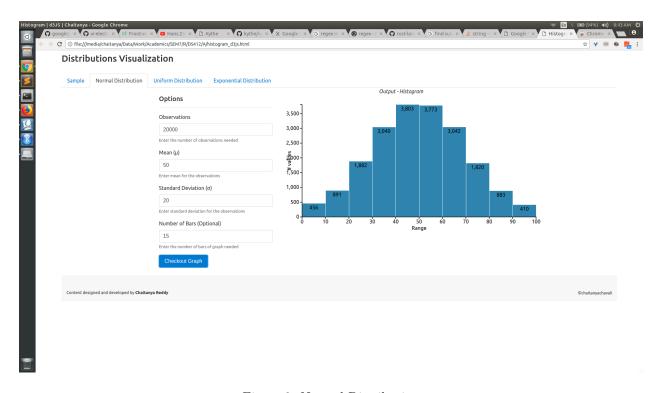


Figure 2: Normal Distribution

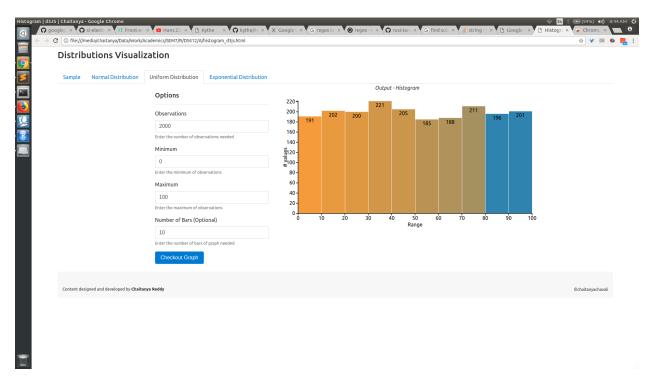


Figure 3: Uniform Distribution (fade out)

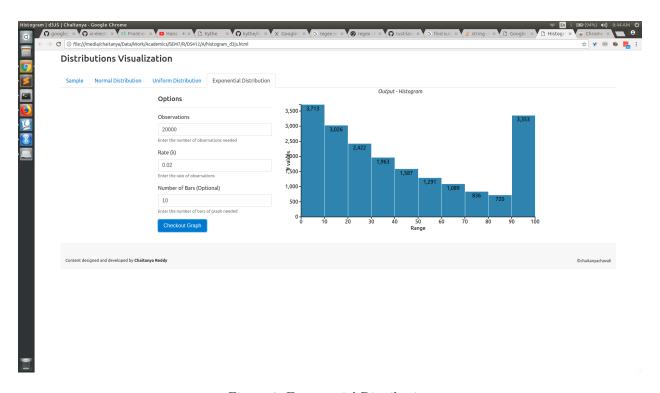


Figure 4: Exponential Distribution