SurveyRMD_BSIT2B

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Survey Table and Demographics

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BSiT-2B

```
library(readxl)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
survey<-read_xlsx("survey.xlsx")</pre>
original_survey<-read_xlsx("survey.xlsx")</pre>
survey<- survey[,-2]</pre>
name<-survey$`Name:(first name, middle initial, last name)`</pre>
age<- survey$ Age:
gender<-survey$`Sex:`</pre>
survey$`Education Level`<-ifelse(is.na(survey$`Education Level`), "College", survey$`Education Level`)</pre>
education_level<-survey\(^\)Education Level\(^\)
experience <- survey $\text{How satisfied were you with the overall experience of ordering food through food de
experience<-as.data.frame(experience)</pre>
experience <- replace (experience, experience >= "Satisfied", 1)
experience<-replace(experience, experience>="Average", 2)
experience <- replace (experience, experience >= "Disatisfied", 3)
survey$ How satisfied were you with the overall experience of ordering food through food deliveries ser
```

```
scale <-survey$`On a scale of 1 to 10, how would you rate the quality of the food you received?`
orderarrival <- survey$`Did your order arrive within the estimated delivery time?`
p1<-survey$`I would find the food delivery app useful for my needs`
p1 <- recode(p1,
             "Strongly Agree" = 1,
             "Agree" = 2,
             "Neutral" = 3,
             "Disagree" = 4,
             "Strongly Disagree" = 5)
p1mean<-mean(p1)
p1sd < -sd(p1)
survey$`I would find the food delivery app useful for my needs`<-p1</pre>
p2 <- survey \U00a7 Using the app enables me to order food more quickly and efficiently
p2 \leftarrow recode(p2,
             "Strongly Agree" = 1,
             "Agree" = 2,
             "Neutral" = 3,
             "Disagree" = 4,
             "Strongly Disagree" = 5)
survey$`Using the app enables me to order food more quickly and efficiently` <- p2</pre>
p2mean<-mean(p2)
p2sd < -sd(p2)
p3 <- survey$ Using the app increases my satisfaction with the food delivery process`
p3 <- recode(p3,
             "Strongly Agree" = 1,
             "Agree" = 2,
             "Neutral" = 3,
             "Disagree" = 4,
             "Strongly Disagree" = 5)
survey "Using the app increases my satisfaction with the food delivery process" <- p3
p3mean<-mean(p3)
p3sd < -sd(p3)
p4 <- survey$`If I use the app, I believe it will enhance my overall dining experience`
p4 <- recode(p4,
             "Strongly Agree" = 1,
             "Agree" = 2,
             "Neutral" = 3,
             "Disagree" = 4,
             "Strongly Disagree" = 5)
survey If I use the app, I believe it will enhance my overall dining experience <- p4
p4mean <-mean (p4)
p4sd < -sd(p4)
e1<-survey$`My interaction with the app would be clear and understandable`
e1<-recode(e1,
```

```
"Strongly Agree" = 1,
           "Agree" = 2,
           "Neutral" = 3,
           "Disagree" = 4,
           "Strongly Disagree" = 5)
e1mean <-mean (e1)
e1sd<-sd(e1)
survey$`My interaction with the app would be clear and understandable`<-e1
e2 <- survey $ It would be easy for me to become skillful at using the app
e2 <- recode(e2,
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
e2mean <- mean(e2)
e2sd \leftarrow sd(e2)
survey$`It would be easy for me to become skillful at using the app`<-e2
e3 <- survey$`I would find the app easy to navigate and use`
e3 <- recode(e3,
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
e3mean <- mean(e3)
e3sd \leftarrow sd(e3)
survey$`I would find the app easy to navigate and use`<-e3</pre>
e4 <- survey$`Learning to operate the app is easy for me`
e4 <- recode(e4,
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
e4mean <- mean(e4)
e4sd <- sd(e4)
survey$`Learning to operate the app is easy for me`<-e4</pre>
s1 <- survey People who influence my dining choices think that I should use the app
s1 <- recode(s1,</pre>
               "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
s1mean <- mean(s1)</pre>
s1sd \leftarrow sd(s1)
survey People who influence my dining choices think that I should use the app <-s1
```

```
s2 <- survey People who are important to me recommend using the food delivery app
s2 <- recode(s2,
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
s2mean <- mean(s2)</pre>
s2sd \leftarrow sd(s2)
survey People who influence my dining choices think that I should use the app <-s2
survey People who are important to me recommend using the food delivery app <-s2
s3 <-survey$`Using the app helps me to put more time to other chores`</p>
s3 <- recode(s3,
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly agree" = 5)
s3mean <- mean(s3)
s3sd \leftarrow sd(s3)
survey$`Using the app helps me to put more time to other chores`<-s3
s4 <- survey In general, the food delivery app organization has supported its use
s4 <- recode(s4,
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
s4mean <- mean(s4)
s4sd \leftarrow sd(s4)
survey$ In general, the food delivery app organization has supported its use <-s4
f1 <- survey I have the resources necessary to use the food delivery app
f1 <- recode(f1,
              "Strongly Agreee" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
f1mean <- mean(f1)
f1sd \leftarrow sd(f1)
survey$\text{`I have the resources necessary to use the food delivery app\'<-f1
f2 <- survey$`I have the knowledge required to use the app effectively`
f2 <- recode(f2,
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
```

```
"Disagree" = 4,
              "Strongly Disagree" = 5)
f2mean <- mean(f2)
f2sd \leftarrow sd(f2)
survey$`I have the knowledge required to use the app effectively`<-f2
f3 <- survey The app is compatible with other device I use for ordering food
f3 <- recode(f3,</pre>
              "Strongly Agree" = 1,
              "Agree" = 2,
              "Neutral" = 3,
              "Disagree" = 4,
              "Strongly Disagree" = 5)
f3mean <- mean(f3)
f3sd \leftarrow sd(f3)
survey$`The app is compatible with other device I use for ordering food`<-f3
survsumtable <- data.frame(</pre>
  Variable = c("p1","p2","p3","p4","e1","e2","e3","e4","s1","s2","s3","s4","f1","f2","f3"),
 Mean = c(p1mean, p2mean, p3mean, p4mean, e1mean, e2mean, e3mean, e4mean, s1mean, s2mean, s3mean, s4me
  SD = c(p1sd, p2sd, p3sd, p4sd, e1sd, e2sd, e3sd, e4sd, s1sd, s2sd, s3sd, s4sd, f1sd, f2sd, f3sd)
library(openxlsx)
survsumtable
      Variable
                   Mean
## 1
            p1 1.685714 0.5784251
## 2
            p2 1.757143 0.6688886
## 3
            p3 1.857143 0.7078384
## 4
            p4 2.214286 0.7400129
            e1 1.842857 0.6051881
## 5
## 6
            e2 2.014286 0.8251984
## 7
            e3 1.757143 0.7109030
## 8
            e4 1.771429 0.7054946
            s1 2.214286 0.8828947
## 9
## 10
            s2 2.100000 0.8538065
## 11
            s3 1.885714 0.7902092
## 12
            s4 1.871429 0.7598899
## 13
            f1 1.871429 0.7787286
## 14
            f2 1.685714 0.7130839
## 15
            f3 1.900000 0.7253185
write.xlsx(survsumtable, "survey_mean_sd_table.xlsx")
```

Demographics

Age of the people who answer the surveys

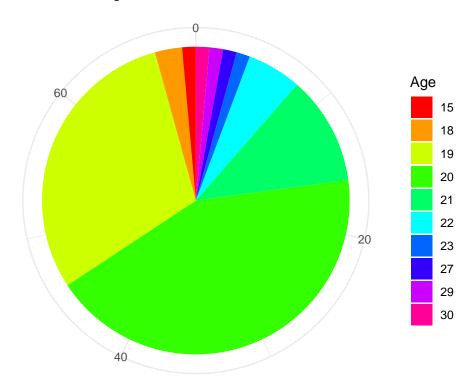
```
library(ggplot2)
library(dplyr)

age_counts <- survey %>%
```

```
count(`Age:`) %>%
arrange(desc(`Age:`))

ggplot(age_counts, aes(x = "", y = n, fill = factor(`Age:`))) +
    geom_bar(width = 1, stat = "identity") +
    coord_polar(theta = "y") +
    labs(title = "Pie Chart of Age Distribution",
        fill = "Age",
        x = NULL,
        y = NULL) +
    theme_minimal() +
    scale_fill_manual(values = rainbow(nrow(age_counts)))
```

Pie Chart of Age Distribution

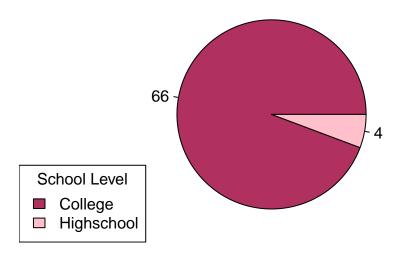


Educational Level of the people who answer the surveys

```
EducationalLevel<- survey %>%
   group_by(`Education Level`) %>%
   summarise(count=n())

colors <- c("maroon", "pink")
pie(EducationalLevel$count, labels = EducationalLevel$count, col = colors, main = "School Level of the legend("bottomleft", legend = EducationalLevel$`Education Level`, fill = colors, title = "School Level"</pre>
```

School Level of the Surveyed People

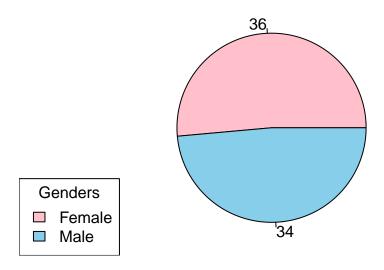


Gender of the people who answer the surveys

```
Gender<- survey %>%
  group_by(survey$`Sex:`) %>%
  summarise(count=n())

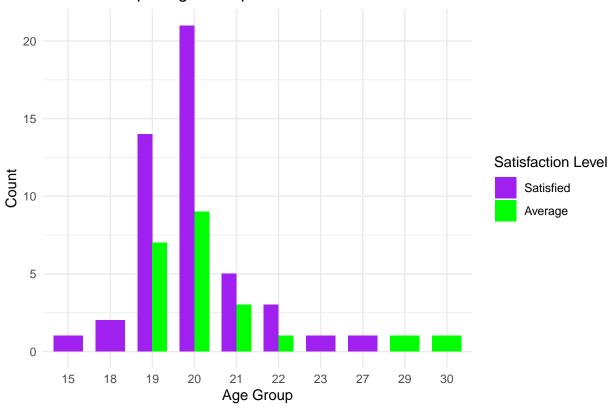
colors <- c("pink","skyblue")
pie(Gender$count, labels = Gender$count, col = colors, main = "Genders of the Surveyed People",)
legend("bottomleft", legend = Gender$`survey$\`Sex:\``, fill = colors, title = "Genders")</pre>
```

Genders of the Surveyed People



Satisfaction Level Per Age

Satisfaction per Age Group

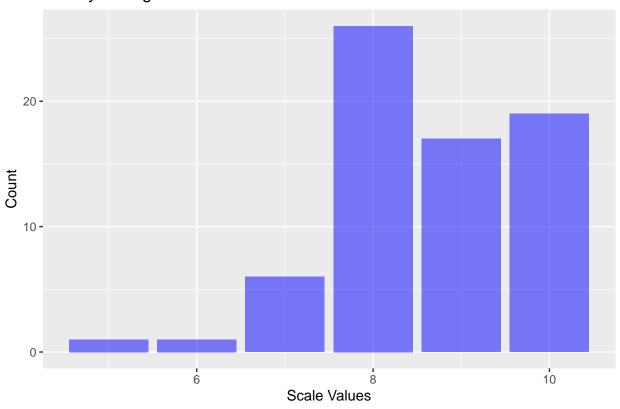


scaling of the people who uses the delivery app

```
scale<-survey$`On a scale of 1 to 10, how would you rate the quality of the food you received?`
scaling <- data.frame(scale)
ggplot(scaling, aes(x = scale)) +
  geom_bar(fill = "blue", alpha = 0.5) +
  labs(title = "Quality Rating Distribution of Received Food",</pre>
```

```
x = "Scale Values",
y = "Count") +
scale_fill_hue(name = "Scale Value")
```

Quality Rating Distribution of Received Food

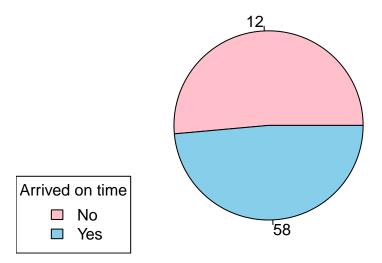


Customer delivery arrived on time

```
arrival<- survey %>%
  group_by(survey$^Did your order arrive within the estimated delivery time?^) %>%
  summarise(count=n())

colors <- c("pink", "skyblue")
pie(Gender$count, labels = arrival$count, col = colors, main = "Surveyed People Arrived on time order",
legend("bottomleft", legend = arrival$^survey$\^Did your order arrive within the estimated delivery time?</pre>
```

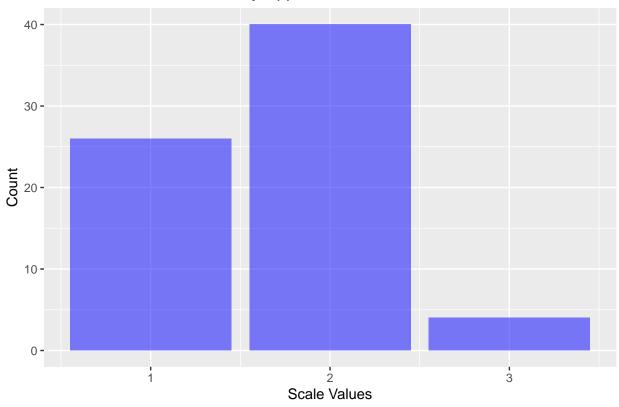
Surveyed People Arrived on time order



p1

```
p1<-survey$`I would find the food delivery app useful for my needs`
p1s <- data.frame(p1)
ggplot(p1s, aes(x = p1)) +
   geom_bar(fill = "blue", alpha = 0.5) +
   labs(title = "Usefulness of Food Delivery App",
        x = "Scale Values",
        y = "Count") +
   scale_fill_hue(name = "Scale Value")</pre>
```

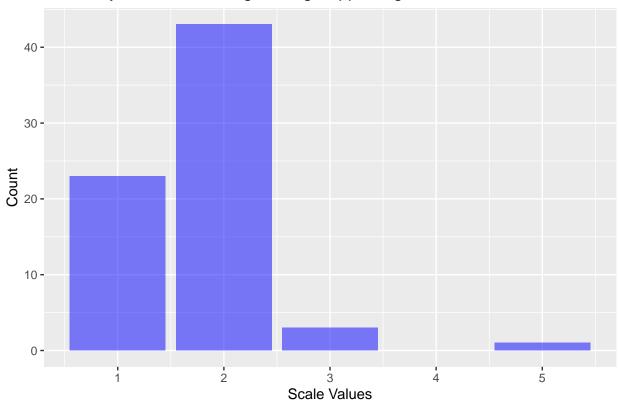
Usefulness of Food Delivery App



$\mathbf{p2}$

```
p2<-survey$`Using the app enables me to order food more quickly and efficiently`
p2s <- data.frame(p2)
ggplot(p2s, aes(x = p2)) +
   geom_bar(fill = "blue", alpha = 0.5) +
   labs(title = "Efficiency in Food Ordering Through App Usage",
        x = "Scale Values",
        y = "Count") +
   scale_fill_hue(name = "Scale Value")</pre>
```

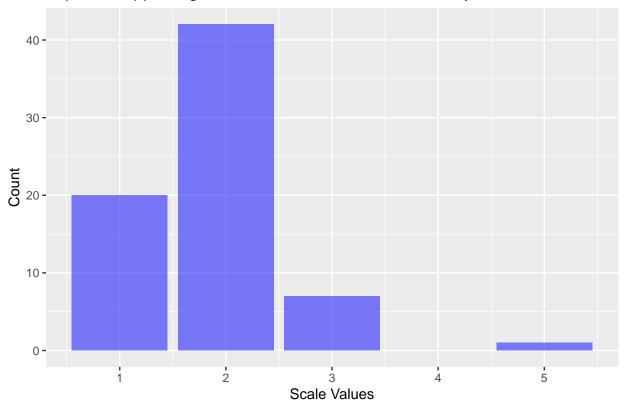
Efficiency in Food Ordering Through App Usage



p3

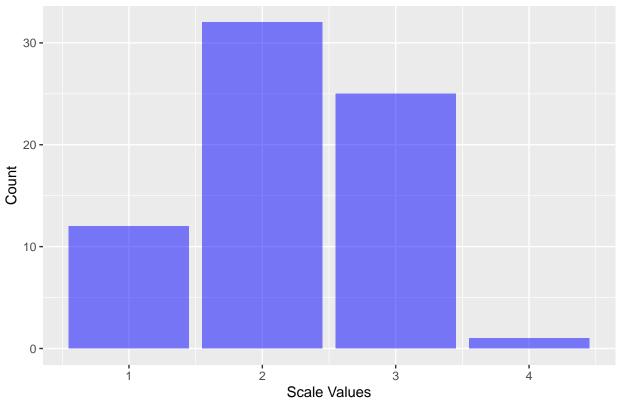
```
p3<-survey$`Using the app increases my satisfaction with the food delivery process`
p3s <- data.frame(p3)
ggplot(p3s, aes(x = p3)) +
   geom_bar(fill = "blue", alpha = 0.5) +
   labs(title = "Impact of App Usage on Satisfaction with Food Delivery",
        x = "Scale Values",
        y = "Count") +
   scale_fill_hue(name = "Scale Value")</pre>
```

Impact of App Usage on Satisfaction with Food Delivery



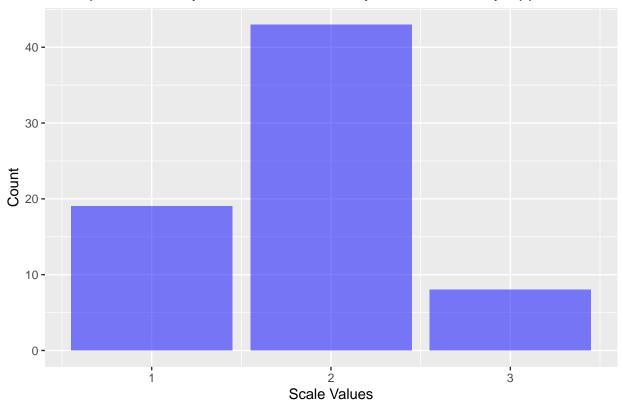
```
\#\# p4
```

Expectation of Enhanced Dining Experience Through App Usage

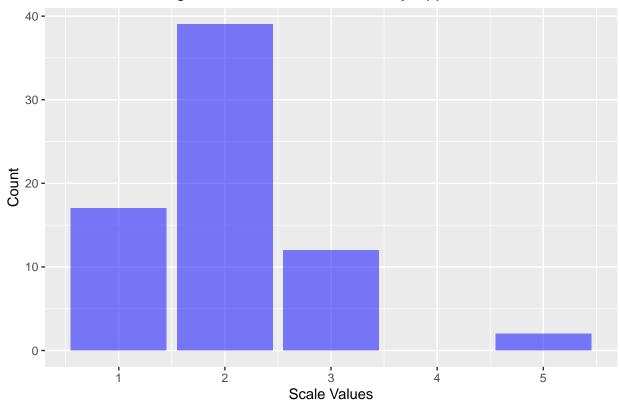


```
e1<-survey$`My interaction with the app would be clear and understandable`
e1s <- data.frame(e1)
ggplot(e1s, aes(x = e1)) +
   geom_bar(fill = "blue", alpha = 0.5) +
   labs(title = "Perception of Clarity and Understandability in Food Delivery App Interaction",
        x = "Scale Values",
        y = "Count") +
   scale_fill_hue(name = "Scale Value")</pre>
```

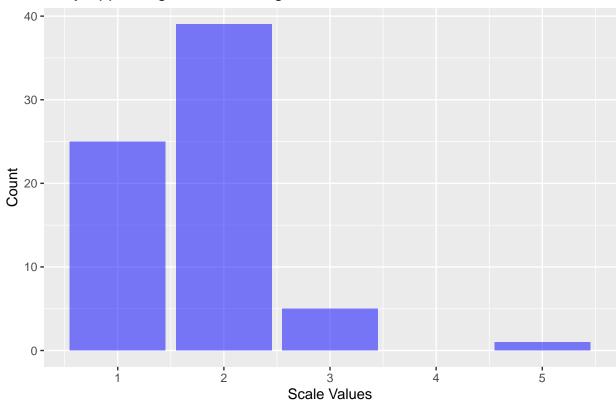
Perception of Clarity and Understandability in Food Delivery App Interaction



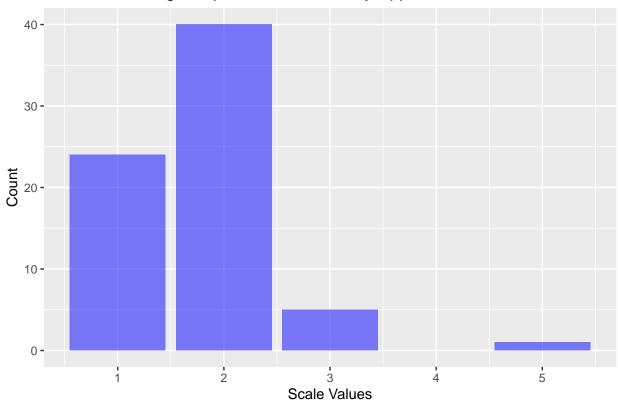
Ease of Becoming Proficient with Food Delivery App



Easy App Navigation and Usage

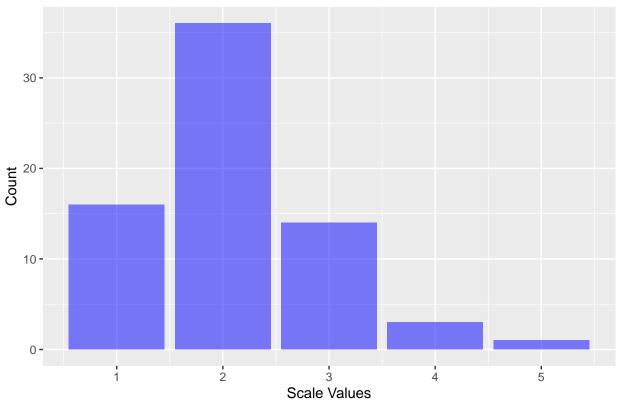


Ease of Learning to Operate Food Delivery App



s1

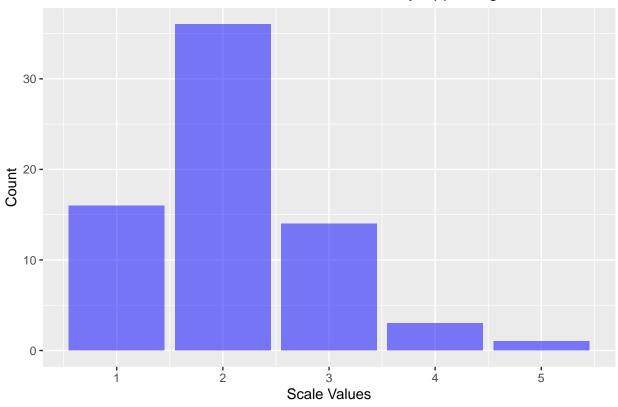
Impact of Influential Dining Recommendations on App Usage



##s2

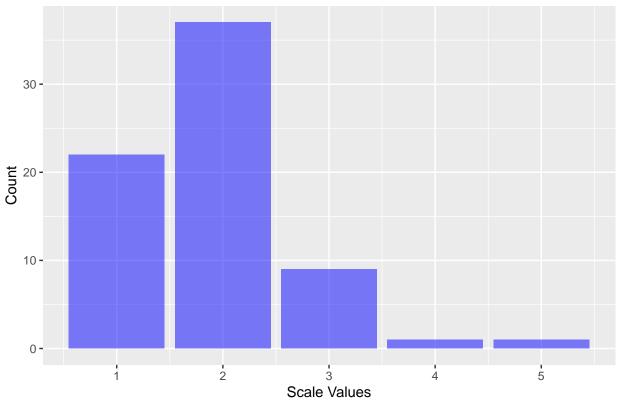
```
s2<-survey$`People who are important to me recommend using the food delivery app`
s2s <- data.frame(s2)
ggplot(s2s, aes(x = s2)) +
   geom_bar(fill = "blue", alpha = 0.5) +
   labs(title = "Influence of Recommendations on Food Delivery App Usage",
        x = "Scale Values",
        y = "Count") +
   scale_fill_hue(name = "Scale Value")</pre>
```

Influence of Recommendations on Food Delivery App Usage



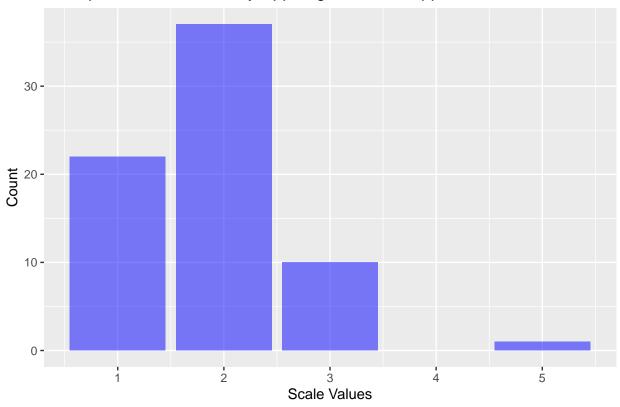
##s3

Effect of App Usage on Allocating Time to Other Chores



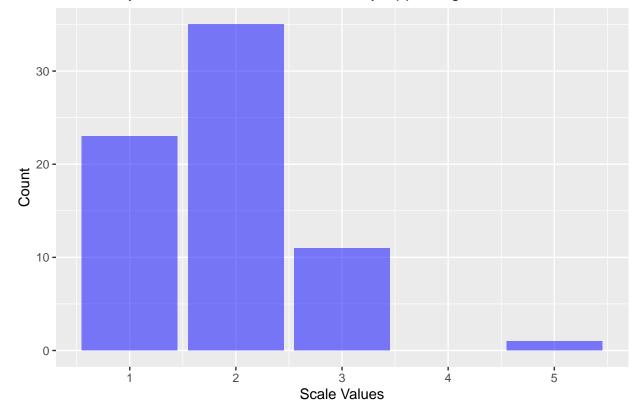
##s4

Perception of Food Delivery App Organization Support



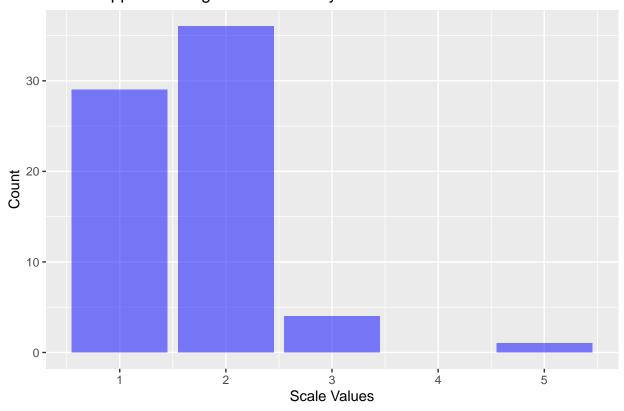
f1

Availability of Resources for Food Delivery App Usage



f2

User's App Knowledge and Familiarity



f3



