



King Fahd University of Petroleum & Minerals
Department of Information and Computer Science

**SWE 312: User Interface Design -
Term 201
Instructor: Dr. Mahmood Niazi**

**Project: Web based pothole tracking and repair system
(PHTRS)**

Phase #3

Team #2

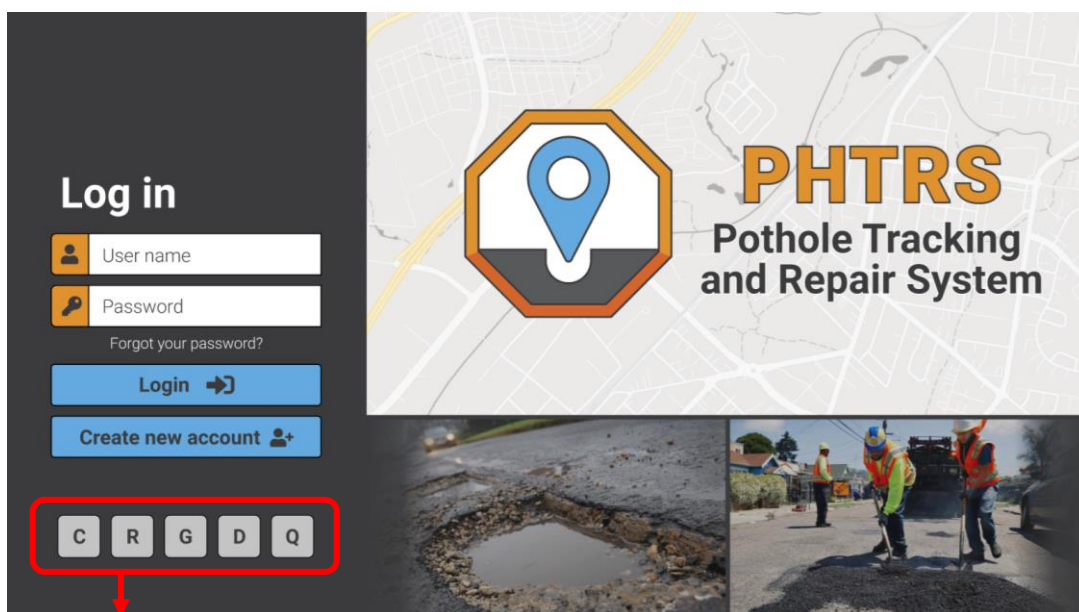
Ali Al-Muslim	201755830
Abdulrahman Abdulltif	201744290
Munther Alsayed	201740410
Omar Pervez Khan	201746350
Khalifa Alhomely	201694520

Prototype

The prototype for the Pothole Tracking System was made using Figma. It is an interactive prototype and can be viewed through this link:

<https://www.figma.com/proto/KJmHzITmodo7DfQXSAjRYr/PHTRS-prototype?node-id=264%3A7518&scaling=min-zoom>

Due to the limitations of the software, we cannot show different users without a way to recognize the user being logged in. For this reason, we have inserted 5 buttons that show the UI for the 5 different users.



- C: Citizen
- R: Repair Crew Member
- G: General Manager
- D: Public Works Department Staff
- Q: Public Works Headquarter Staff

To view the UI from the Citizen's perspective, click on the C button.

Evaluation Strategy

In our project of building a Web Based pothole tracking and repair system (PHTRS), we have come up with 6 criteria to evaluate our system:

- 1) **Page Layout**
- 2) **Readability**
- 3) **Graphics**
- 4) **Color**
- 5) **Input**
- 6) **Subjective Satisfaction**

The form of data collected will be Quantitative data. Quantifying the responses from our evaluators will help us interpret and analyze the data much more effectively.

Evaluation Process

Our evaluation process consists of gathering quantifiable data from our evaluators in the form of a number rating from a scale of 1 to 5. The numbers 1 to 5 represent:

- **1: Strongly Disagree**
- **2: Disagree**
- **3: Neutral**
- **4: Agree**
- **5: Strongly Agree**

The evaluation was executed by Team 4 from SWE 312 – Section 01 using our criteria and the prototype that we provided.

Once the evaluation has been completed, the data will be represented using graphs to ease interpretation and analysis of the evaluation conducted.

Evaluation Criteria

Page Layout

- Elements are sized and arranged to fit within the page.
- Navigation between pages is easily done.
- The layout of the page is easy to understand.
- Margins between table columns are adequate.
- The type of the page element is easily understandable (table, link, button).
- Global functions such as logging out are easily accessible.

Readability

- The pages are easy to read.
- The colors do not obstruct readability.
- The information in the pages is group into coherent subsections.
- The page elements are ordered logically.
- The font style and size are consistent with the page.

Graphics

- The graphics (icon, buttons) are attractive.
- The graphics used are not excessive.
- The graphics are easy to interact with.
- The message conveyed by the graphics is easy to understand.
- The sizes of the buttons are inappropriate.
- The graphics are useful in aiding the user in navigating the system.

Color

- The use of color is attractive.
- The different colors used complement each other.
- The usage of colors is balanced (primary colors, secondary colors).
- Colors used are consistent with their intended meaning.
- The number of colors is suitable.

Input

- Inputs properly match the data being entered (dropdown for preselected items, freedom for names, etc.).
- Input fields are easily editable.
- Input fields can easily be reset to their initial value.

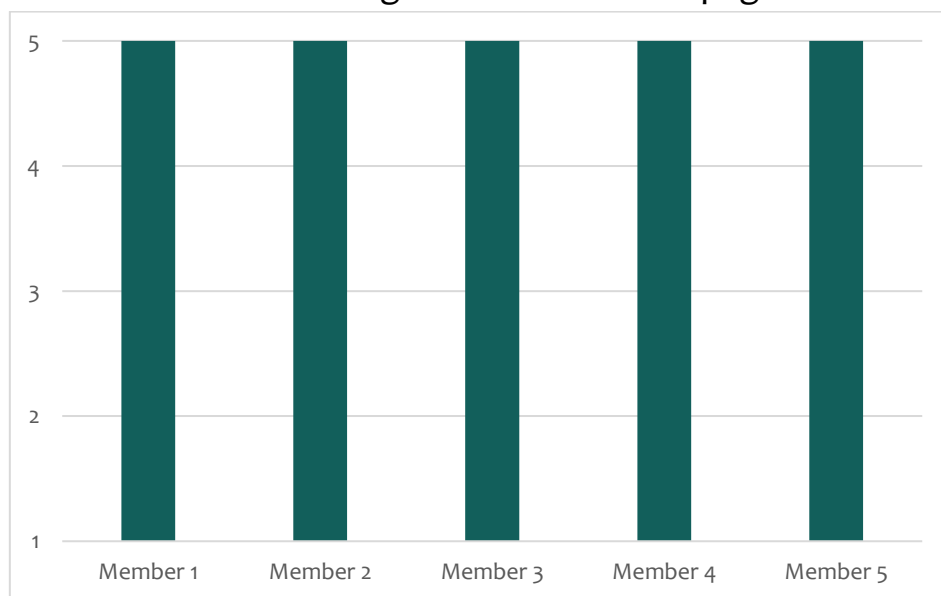
Subjective Satisfaction

- How well are you satisfied with the menus?
- How well are you satisfied with the graphics?
- How well are you satisfied with the fonts?
- How well are you satisfied with the overall system?

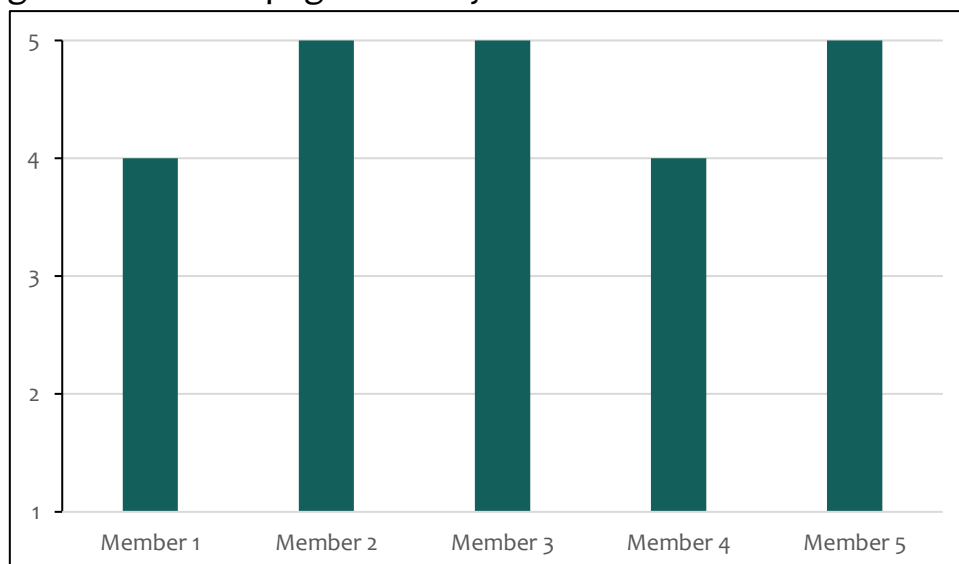
Evaluation Results

Page Layout

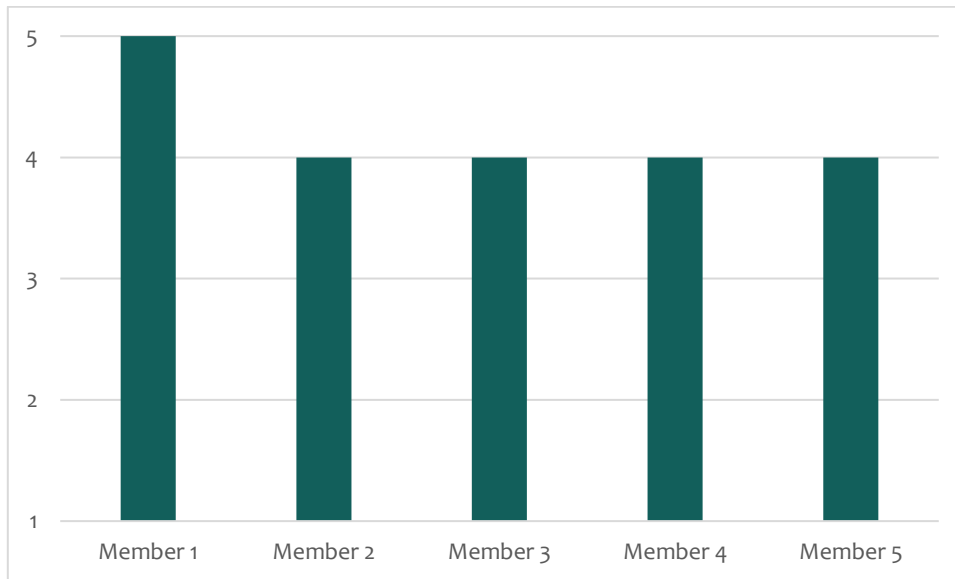
- Elements are sized and arranged to fit within the page.



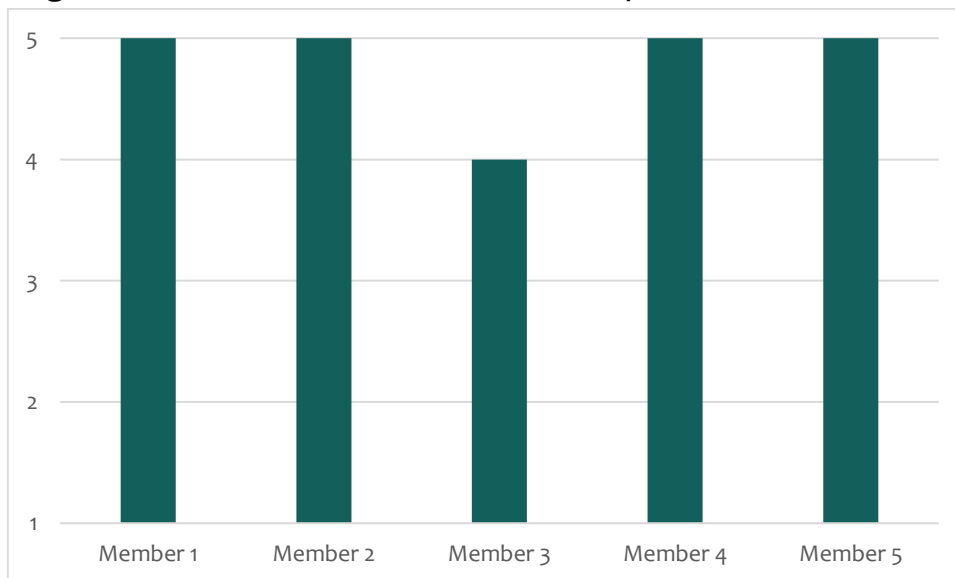
- Navigation between pages is easily done.



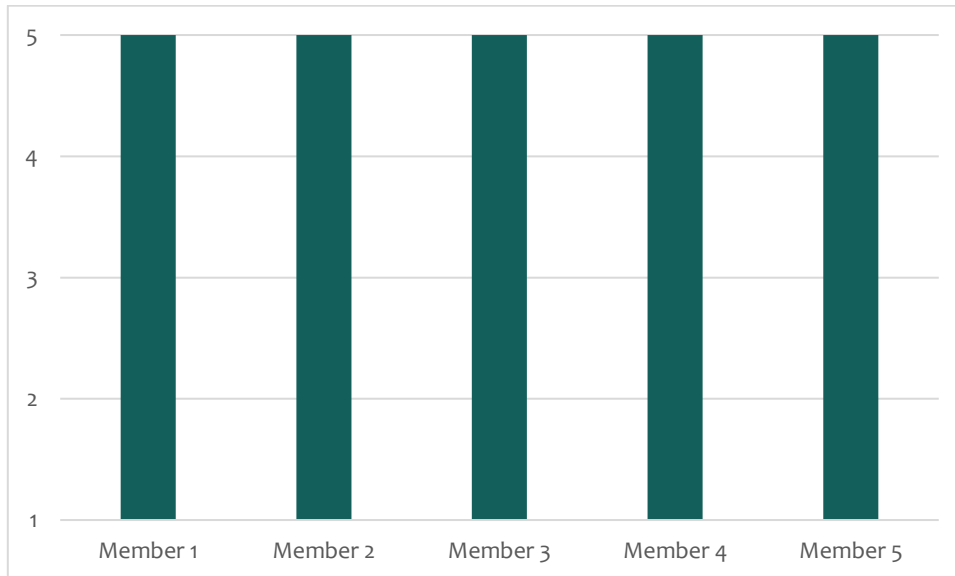
The layout of the page is easy to understand.



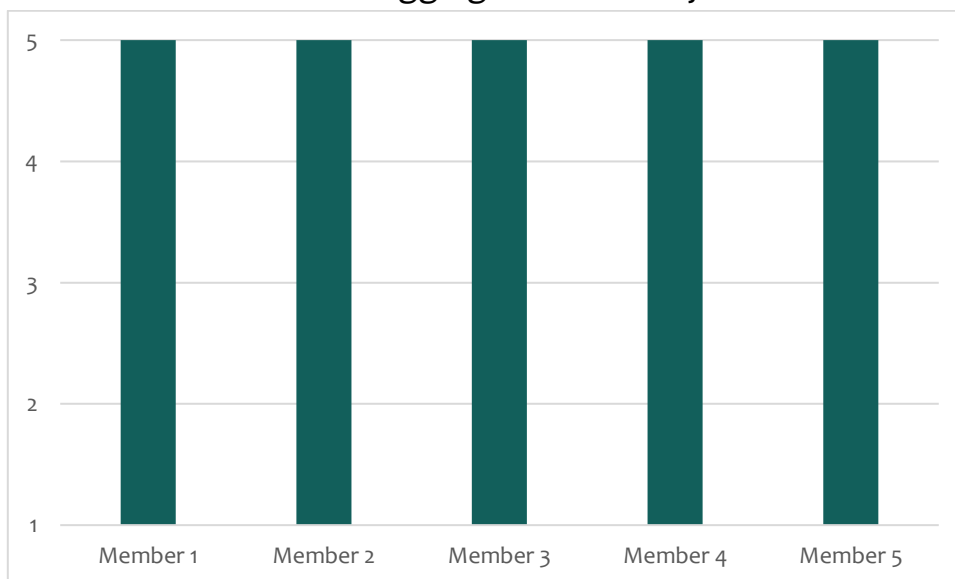
- Margins between table columns are adequate.



- The type of the page element is easily understandable (table, link, button).

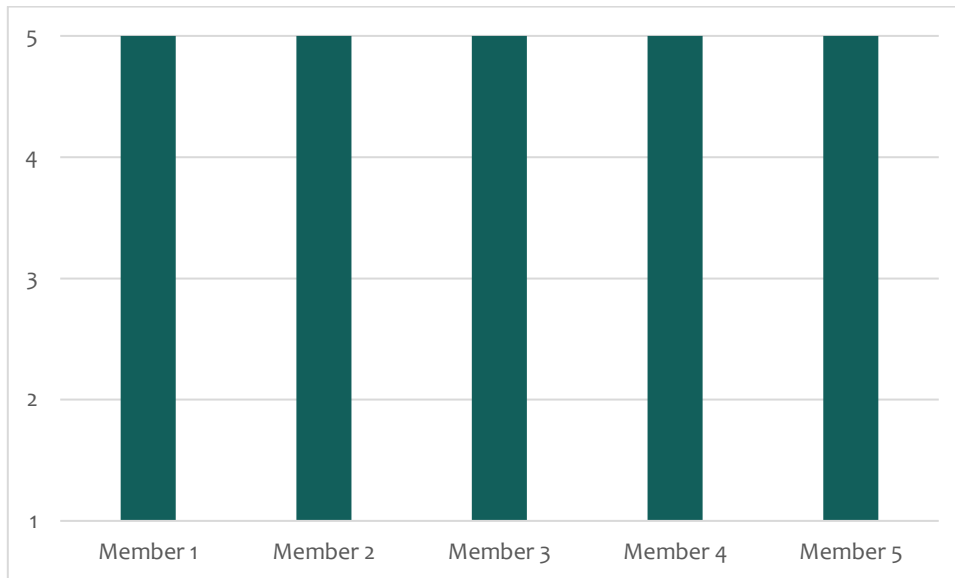


- Global functions such as logging out are easily accessible.

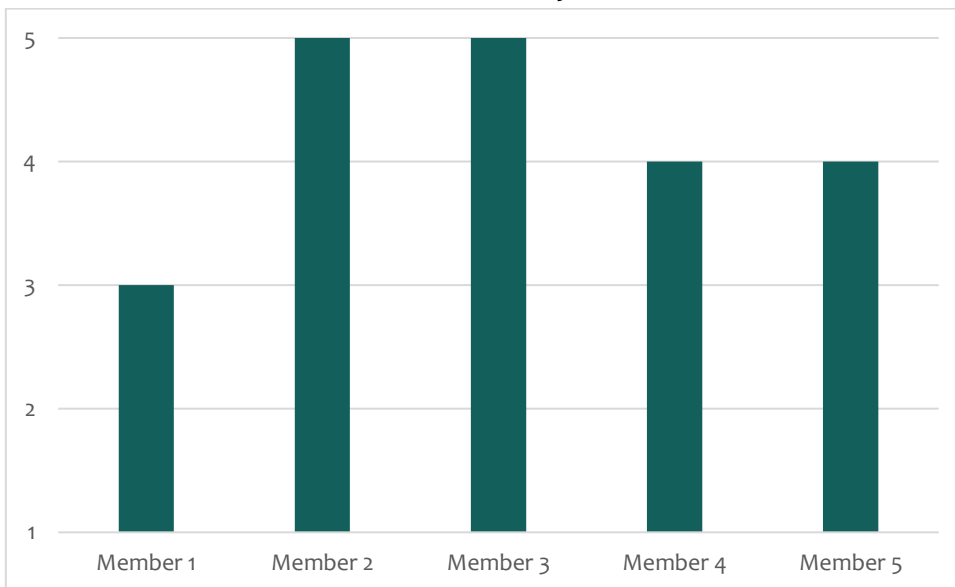


Readability

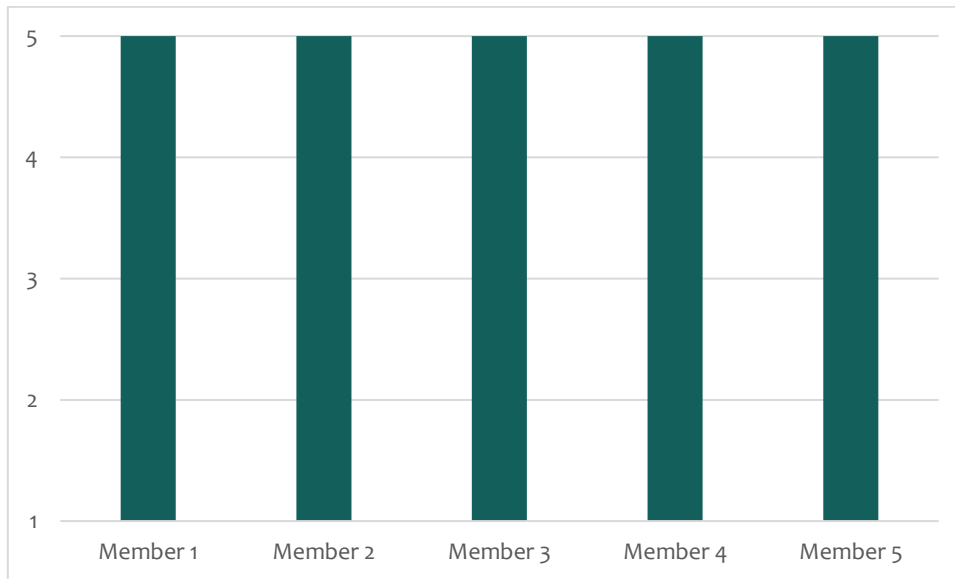
- The pages are easy to read.



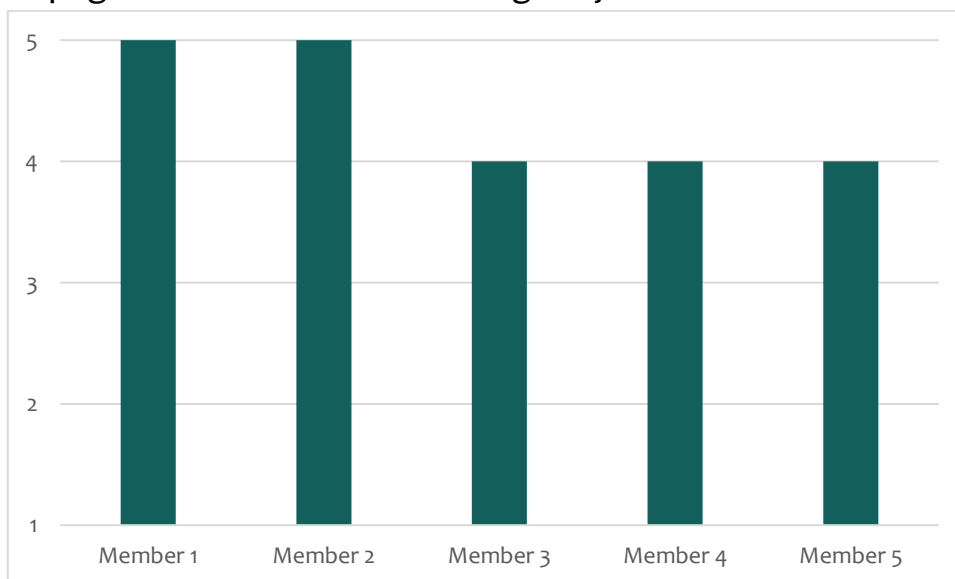
- The colors do not obstruct readability.



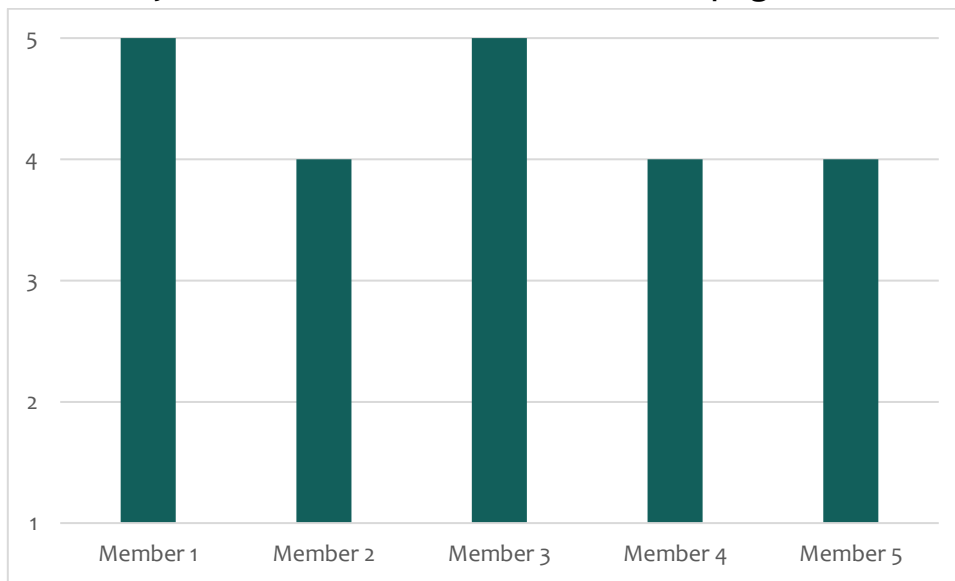
- The information in the pages is group into coherent subsections.



- The page elements are ordered logically.

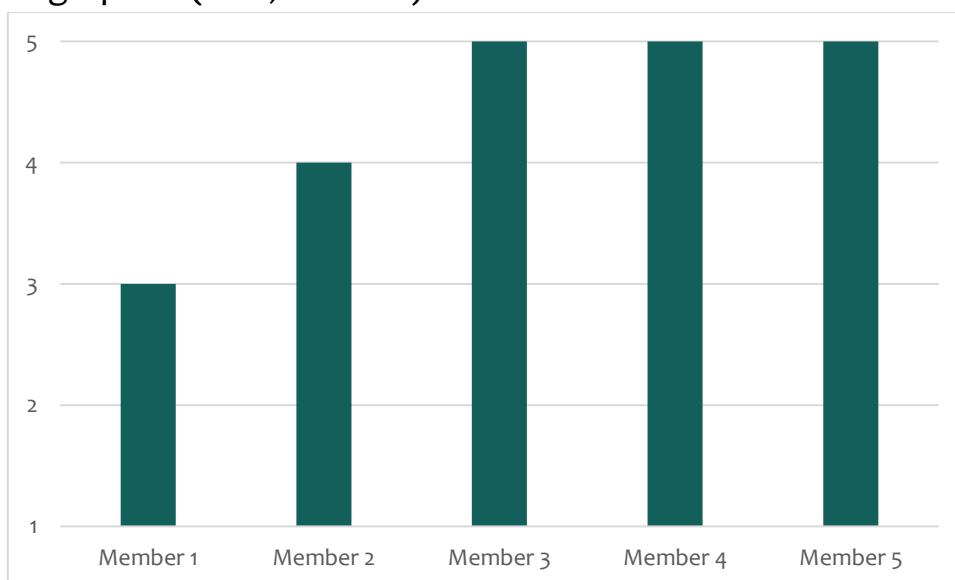


- The font style and size are consistent with the page.

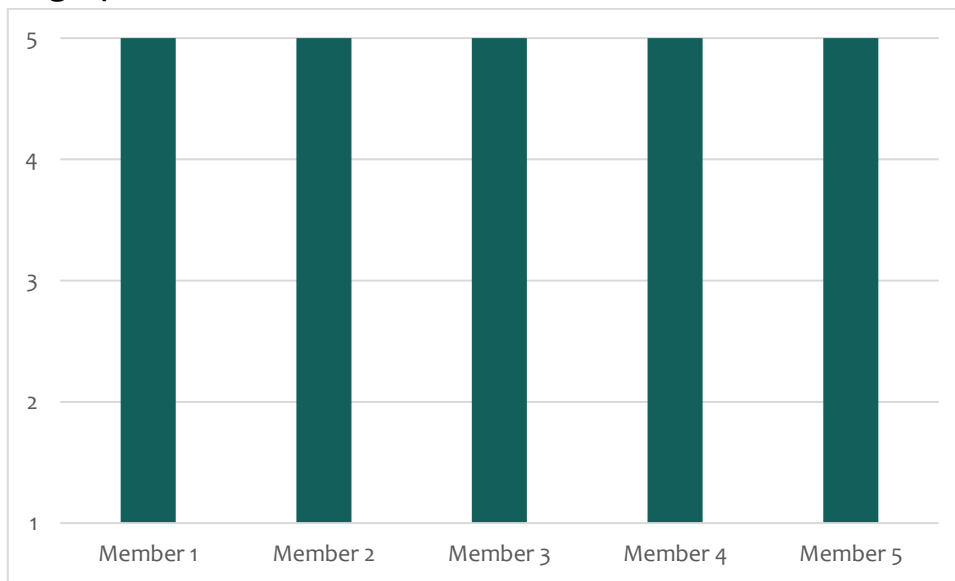


Graphics

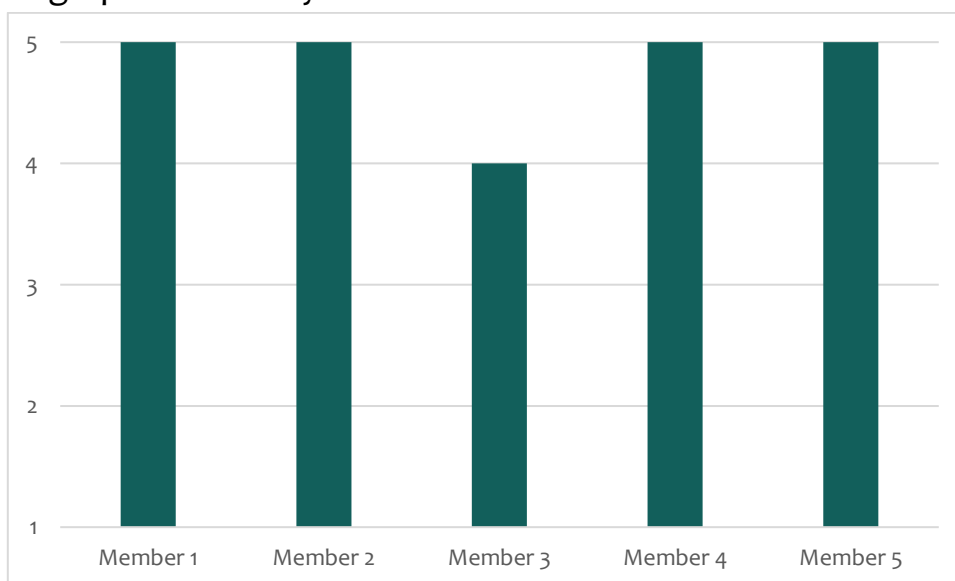
- The graphics (icon, buttons) are attractive.



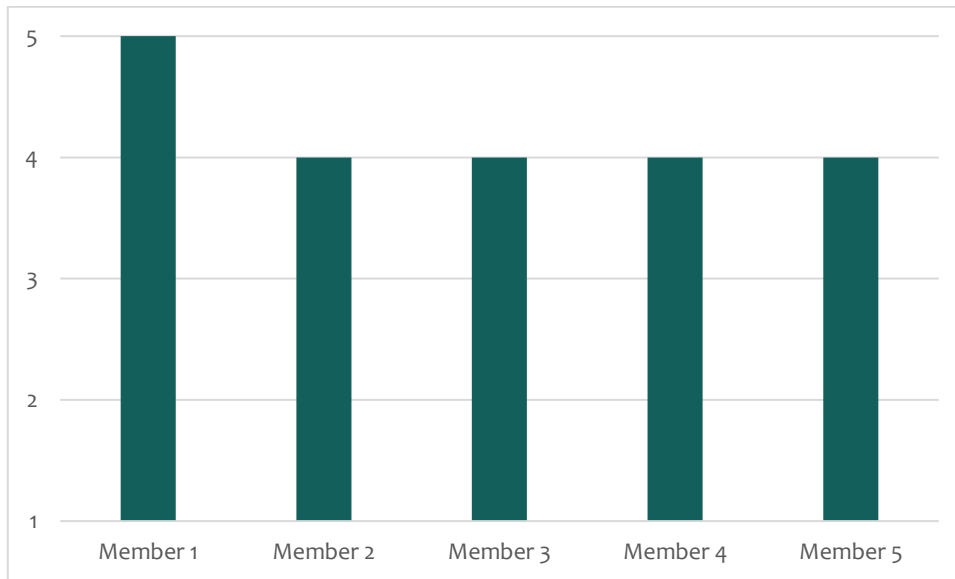
- The graphics used are not excessive.



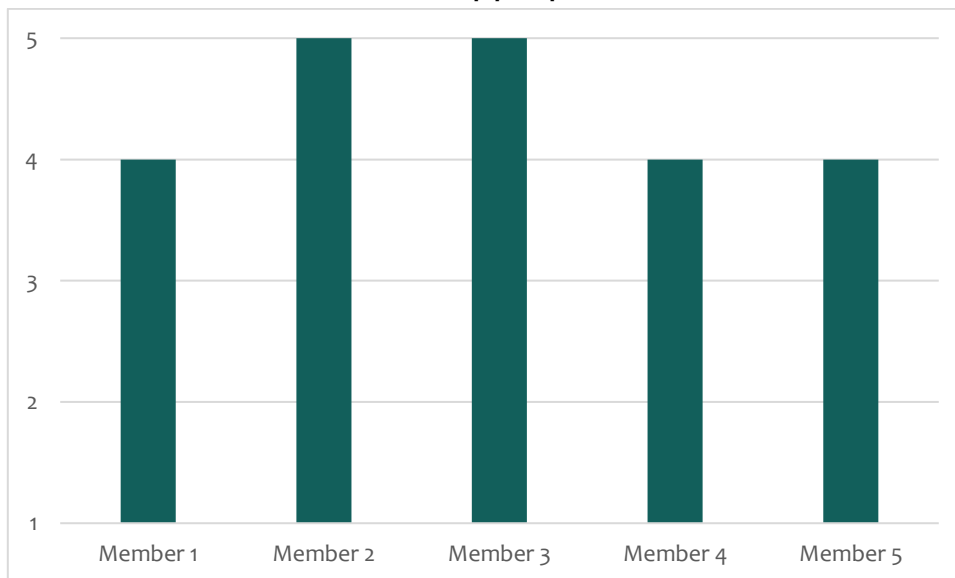
- The graphics are easy to interact with.



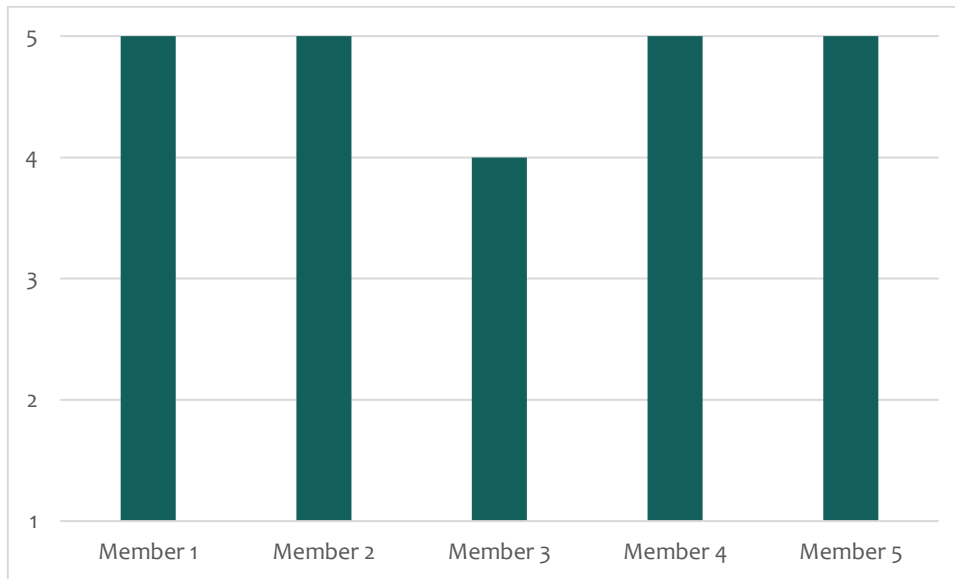
- The message conveyed by the graphics is easy to understand.



- The sizes of the buttons are inappropriate.

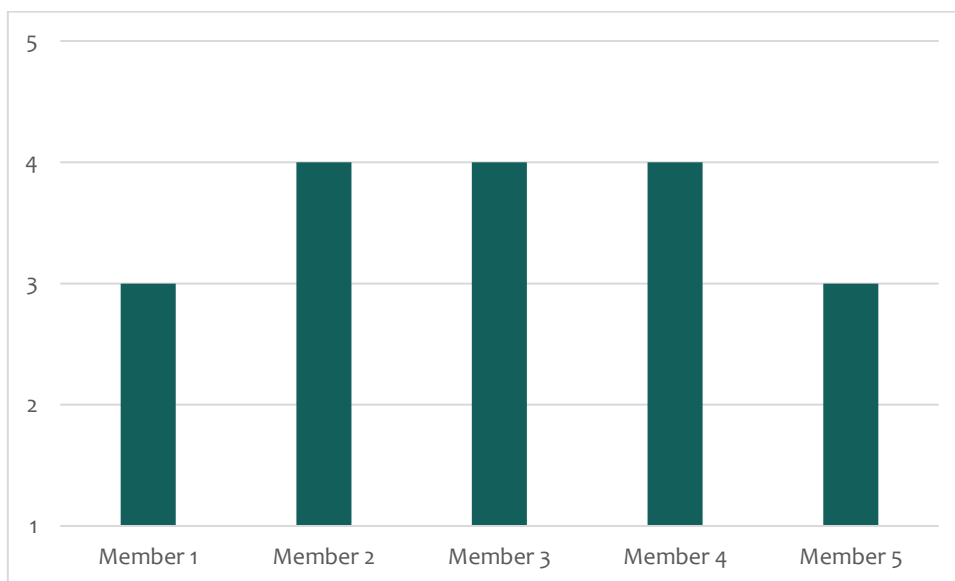


- The graphics are useful in aiding the user in navigating the system.

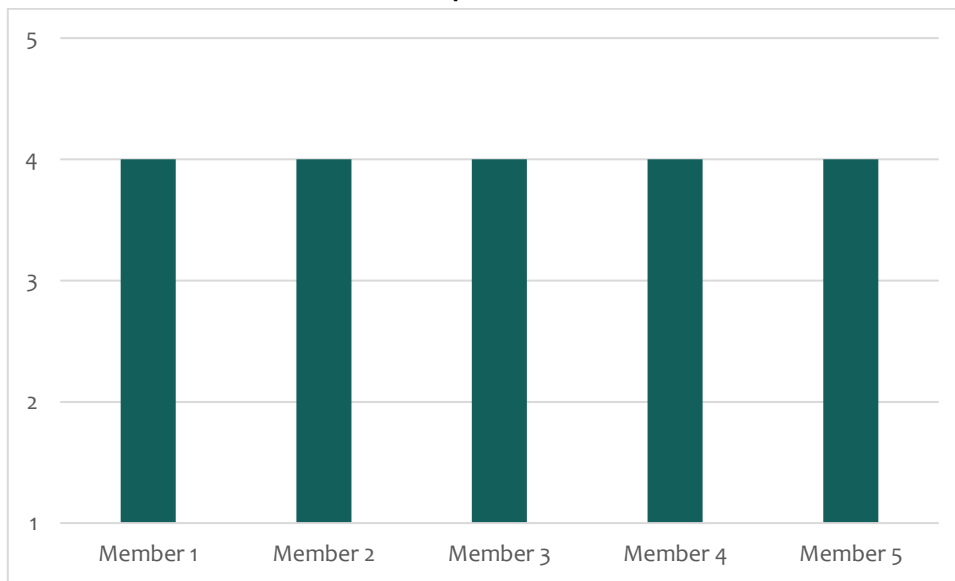


Color

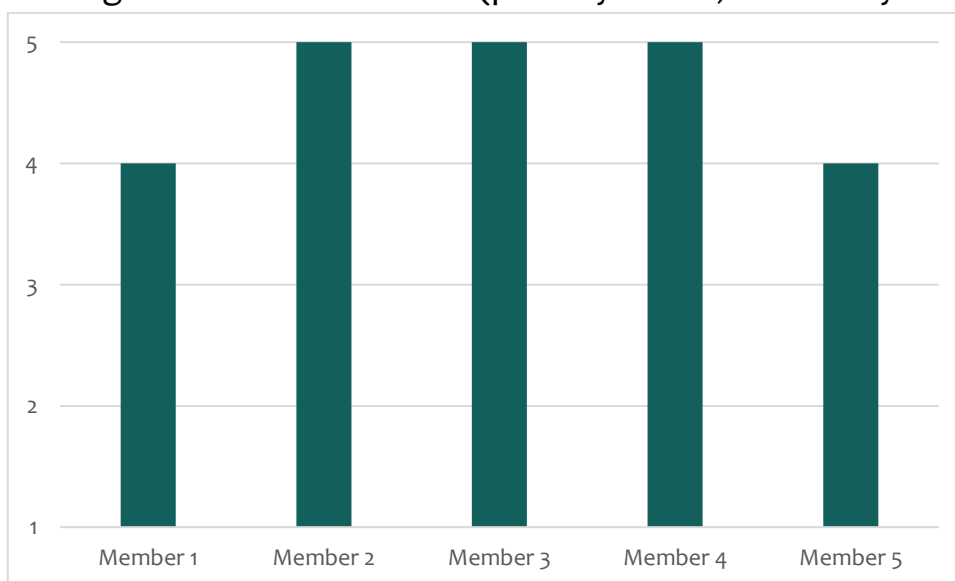
- The use of color is attractive.



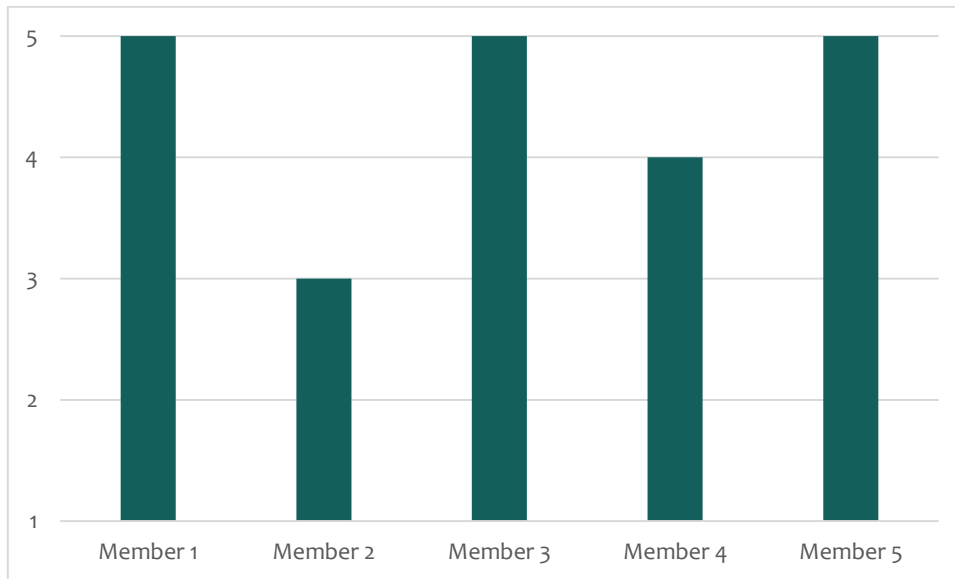
- The different colors used complement each other.



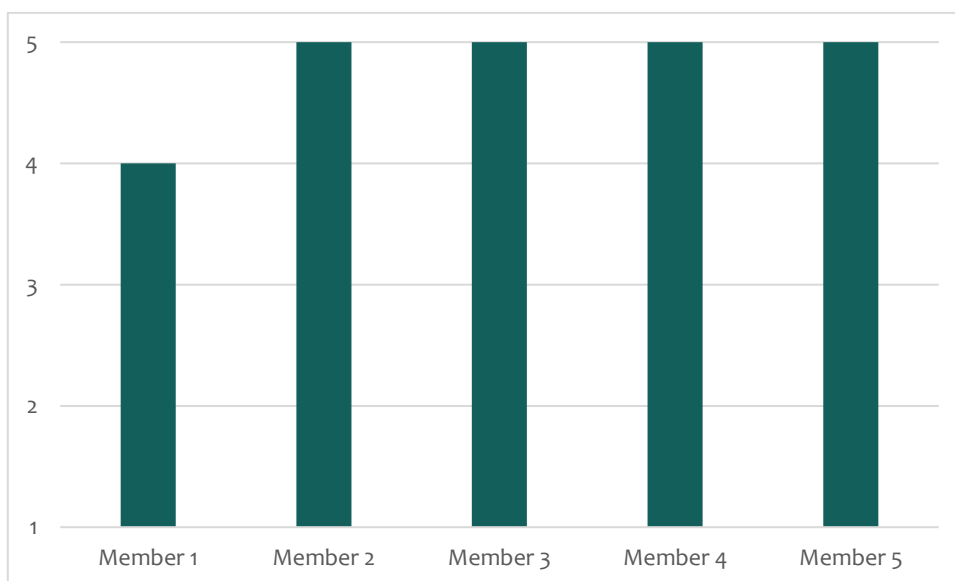
- The usage of colors is balanced (primary colors, secondary colors).



- Colors used are consistent with their intended meaning.

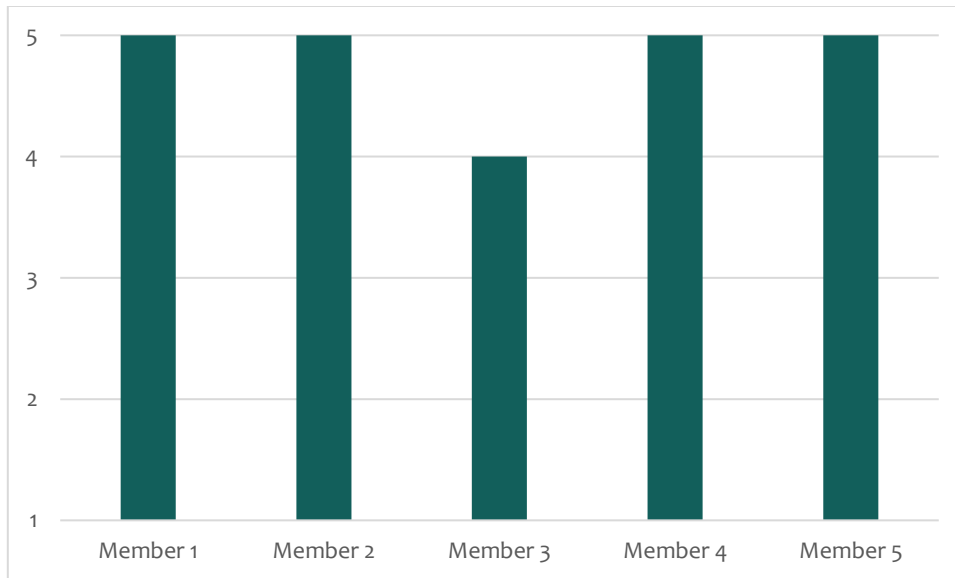


- The number of colors is suitable.

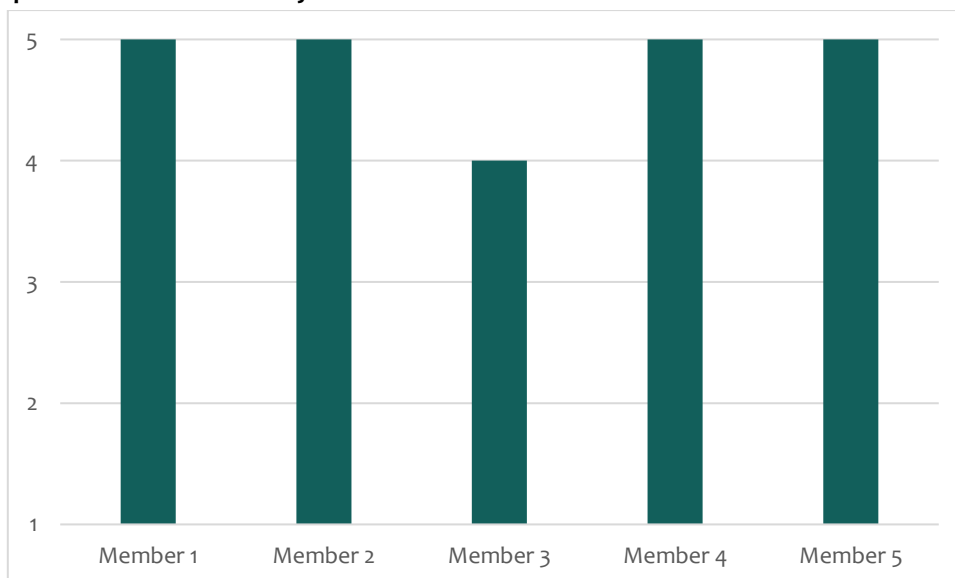


Input

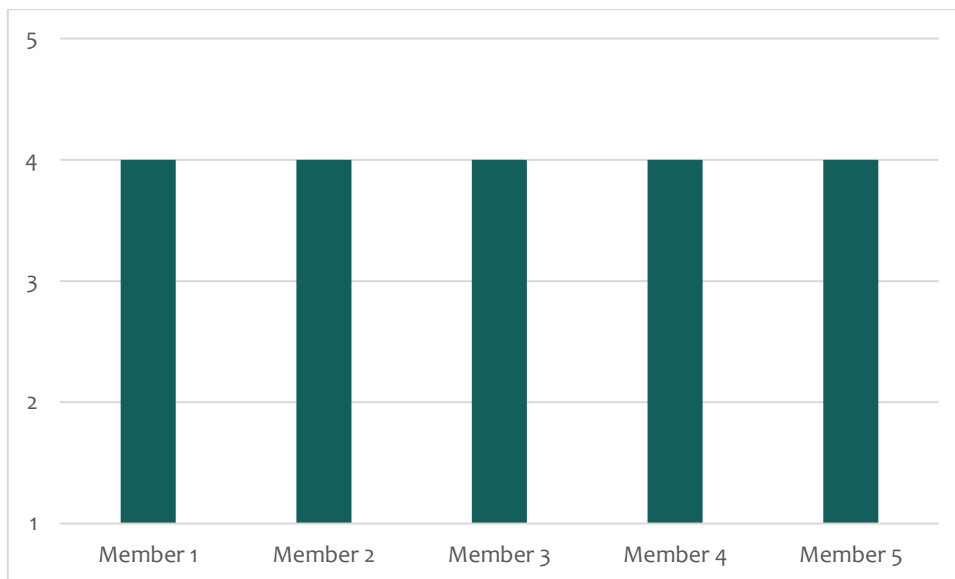
- Inputs properly match the data being entered (dropdown for preselected items, freedom for names, etc.).



- Input fields are easily editable.



- Input fields can easily be reset to their initial value.



Subjective Satisfaction

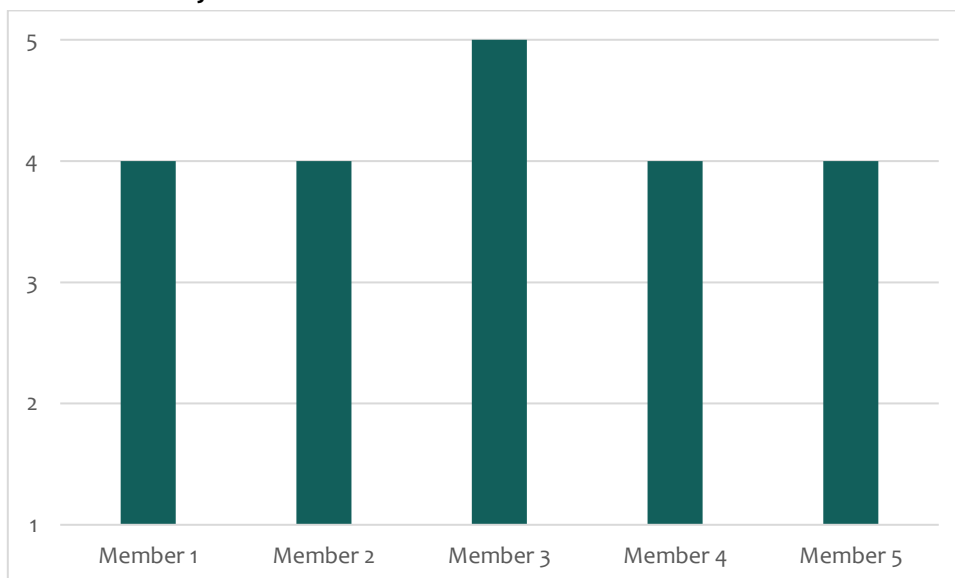
In this criterion, the range of values used have slightly different meanings.

They are as follows:

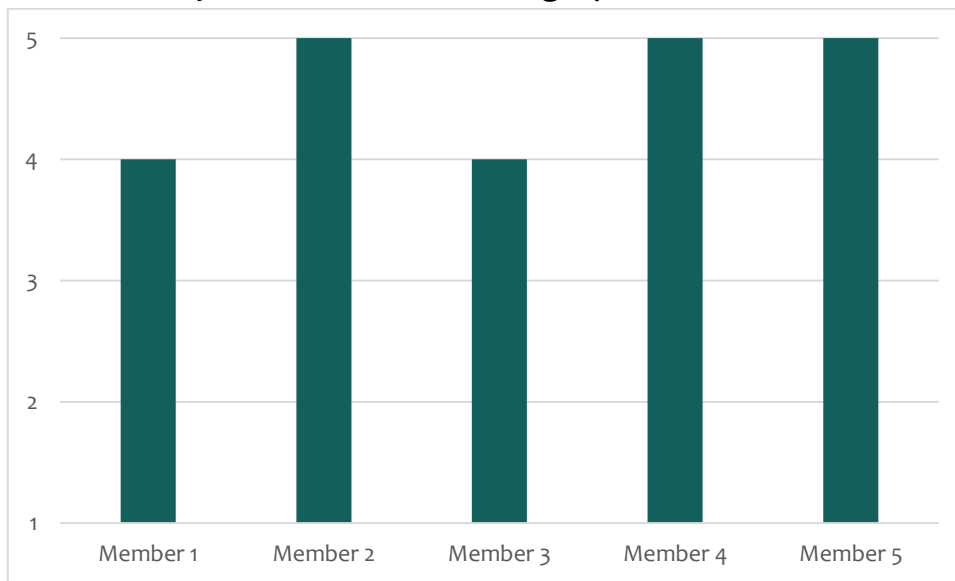
- **1: Strongly Dissatisfied**
- **2: Dissatisfied**
- **3: Neutral**
- **4: Satisfied**
- **5: Strongly Satisfied**

-

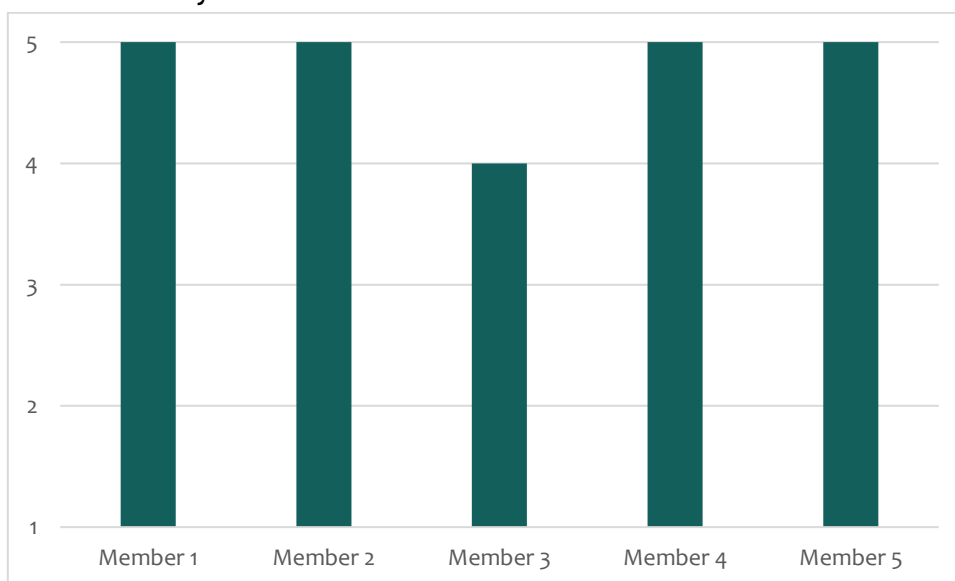
- How well are you satisfied with the menus?



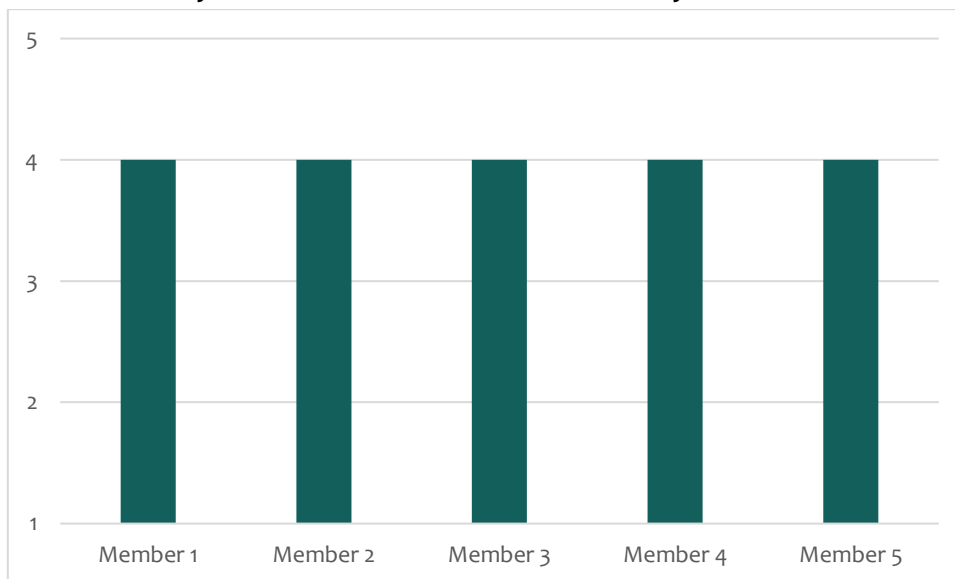
- How well are you satisfied with the graphics?



- How well are you satisfied with the fonts?



- How well are you satisfied with the overall system?



Name	ID	Contribution (%)
Ali Al-Muslim	201755830	20%
Abdulrahman Abdulltif	201744290	20%
Munther Alsayed	201740410	20%
Omar Pervez Khan	201746350	20%
Khalifa Alhomely	201694520	20%