International Journal of Research Publication and Reviews

A comparative study on smart watches of iwatch and fossil

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INTRODUCTION

For the most part, the battery life, charging speed, blood oxygen monitoring, and always-on display of Fossil's smartwatch are superior to those of its rivals. Larger displays, superior water resistance and a reduced pricing are Apple's main advantages.

Gen 6 is 85 percent quicker and charges to 80 percent in half an hour, but will Apple's affordable smartwatch be overtaken by the new Fossil watch? After introducing a new generation of smartwatch with a performance leap over the previous generation, it remains to be seen whether Fossil can hold its own against Apple's similarly priced Apple Watch SE. For example, Fossil, a well-known watchmaker, utilises a round rectangular design for its Gen 6, whereas Apple uses a circular one. However, with smartwatches, looks isn't everything. Customers may find it easier to choose between these two excellent options if they compare their characteristics and features.

Fossil is a well-known name in the fashion industry, but it also makes timepieces, both mechanical and digital, under the Fossil name. A decade before Pebble, Samsung, or Apple, Fossil released a smartwatch that looked nothing like today's devices. An operating system built for personal digital assistant devices was used in the Fossil Wrist PDA when it was introduced in 2003, and the device was restricted in capability. As a consequence of its large size and low-resolution screen, which needed a pen for interaction, it failed to sell well. Google's Wear OS platform proved to be a boon for the firm as it proceeded to experiment with wearable features.

Powered by a Qualcomm Snapdragon 4100-Plus processor, the Gen 6 smartwatch is up to 85 percent quicker than the Gen 5 in terms of processing power. This is great news for anybody who has had a bad experience with the slowness of Wear OS devices compared to Apple Watches in the past. One of the Fossil Gen 6's best features is its lightning-quick charging time of just 30 minutes to 80 percent of its maximum capacity. For the same task, it takes three times as long on the Apple Watch SE to get to 80%. With its clever battery modes, Fossil promises more than 24 hours of life; Apple predicts 18 hours. However, Google's forthcoming Wear OS 3, which the Fossil Gen 6 will be qualified for, may offer advancements that threaten Apple's monopoly on the wearable market.

The Fossil Gen 6 comes in two traditional sizes, 42 millimetres and 44 millimetres, both having a 1.3-inch always-on display. The smaller fashion watch has three colour options, while the bigger sports watch has four. When the wearer raises their arm or taps the screen on the 1.8-inch display of the Apple Watch SE, the screen turns on and remains on until the user returns their arm to its original position. There are some people who favour the Apple Watch's bigger and more readable rectangular design, while others prefer the watch's always-on display. There is a good amount of competition in terms of sensors as well, but Fossil's Gen 6 can monitor blood oxygen levels, which may be used to diagnose various health conditions, such as sleep apnea.

In terms of price, the Apple Watch SE starts at $279, which is a little less than Fossil's Gen 6 ($299). In terms of water resistance, the Apple Watch SE outperforms the Fossil with a rating of 50 metres, or around 31 metres. As long as they are not used for diving, the difference may not be noticeable. Fossil features a stainless steel body but does not identify the kind of glass used on the front, unlike Apple, which employs dual-ion exchange glass and an aluminium chassis. This suggests that the Apple Watch's screen will be more robust, but the device's body will be more prone to scratches.

To summarise, the battery life, charging speed, blood oxygen measurement, always-on display, and body durability of Fossil's smartwatch are the most impressive of the four contenders. Larger displays, superior water resistance and a reduced pricing are Apple's main advantages. It's a toss-up between the two, and the final decision may come down to which phone will be paired with the watch. With an iPhone, you'll need to use an Apple Watch SE, while with an Android phone, you'll need the Fossil Gen. Understanding how wristwatch sizing works is one of the most arcane things for the uninformed. To help you choose the right watch size, we've broken everything down for you in an easy-to-follow approach.

To get things started, let's talk about how watches are sized. Once we understand how they are sized, we will discuss how the form of the case itself may impact how big or tiny a watch is perceived to be on one's wrist.

When it comes to watch casings, how are they sized and weighed?

An instrument called a calliper is often used to measure the diameter of watch cases in millimetres (mm). A circular watch case is the most frequent. The diameter across the case is used to determine the case's size. As you can see from the following graph, there are many different sizes to choose from. Our discussion of watch case forms and how their sizes are seen in relation to one other will follow.

If you're reading this chart on a computer, keep in mind that it won't be exactly the same size since each screen has a different resolution. Click on the picture below to view a downloadable PDF file that allows you to print the watch size comparison chart in its entirety. You should make sure to verify the print settings to ensure that the sizes are as exact as possible.

The square case watch has greater "square footage" on the dial compared to the round case watch due of its geometry. Even though the round-case watch on the far left has the same case size as the right-hand watch, which has a thicker bezel and/or a smaller dial, it seems to be bigger because of the lower dial size.Everything from the hands and hour markers to lugs and the crown to the pushers and crown guards may alter how big the case seems to the wearer.

Measurement of the Thickness of the Carrying Case

A calliper is used to measure the thickness of a watch case from the top centre of the crystal to the centre of the case back. In terms of case thickness, some timepieces include a thin one while others have a thick one. The more mechanical functions a watch has, the thicker the casing needs to be to accommodate all of the parts needed to perform them.

Bracelets & Straps

The kind of strap or metal band, the breadth of the strap, and whether or not it has the same tone stitching or contrasting tone stitchwork may all impact how the wearer perceives the watch's overall size. Bracelets made of metal tend to be larger than those made of leather or nylon (NATO). In order to maintain a sense of balance, the width of the straps is often set at half the width of the case.

Despite the fact that the Fossil Gen 6 is a significant improvement over the previous generation, it remains to be seen whether it will be sufficient to compete with Apple's similarly priced Apple Watch SE. A well-known company, Fossil, adopts the circular form of a traditional watch in its Gen 6 whereas Apple employs rounded rectangular design.

There is a lot of potential for Apple Watch to revolutionise and improve the mobile device industry. There is a direct correlation between the presentation and execution of the production. Because no one else can catch up with Apple Watch, the company's emphasis should be on making the device's features even better so that it can maintain its market-leading position. Use of the Apple Watch has shifted essential features that have successfully boosted mobility and storage while creating an enormous challenge for future generations based on new gadgets. This is the digital world of today. Apple Inc., on the other hand, has developed a product that may suit the demands of the present generation with the Apple Watch. Apple Watch is primarily aimed at those in their 20s and 30s. A majority of today's youth is enamoured with Apple Inc., according to studies

In terms of fashionable timepieces, the brand Fossil is one of the most popular. Fossil timepieces are well-known for their ability to strike a balance between low cost and high quality.

Compared to cheaper timepieces, they tend to be more stylish and minimalistic. To ensure you receive a great deal on your purchase, Fossil watches tend to cost less than premium brands like Cartier, Rolex, or Heuer. Fossil watches are worn by men and women of all ages. A wide range of people will be able to find something they like among the company's collection of timepieces, which have distinctive designs.

People who want something a bit more flashy than their budget watch but don't have the money to go out on a luxury timepiece will find Fossil watches an excellent option. For a fraction of the price of a Hermes or Cartier watch, you may get a Fossil watch with a magnificent design. Wearing a Fossil watch is acceptable in practically any situation.

REVIEW OF LITERATURE

Both timepieces have the same operating system. The Sport, on the other hand, loses out to the Watch because of its poor performance. The Sport will hesitate, hang, and then quickly spring back to life as the Watch glides through orders.

What the top-end Fossil Gen 5 smartwatches have shown is that stronger hardware can alleviate this problem, which seems to be a common occurrence with Wear OS devices. While the Snapdragon 3100 in the Sport is the most recent CPU, the watch's 512MB of RAM is a hindrance. Life expectancy of a battery

The Sport's battery life is also one of its biggest drawbacks. In contrast to the Apple Watch, the Sport is a "charge at least once daily" watch.

You may need to recharge your Sport many times a day depending on what you do with it. If you switch on continual heart rate monitoring, activate its always-on screen, and utilise its integrated GPS, the little battery won't be able to last a complete 16 hours of the day. This watch has gone into power-saving mode much more often than any of the others I've tested.

Both the Apple Watch 5 and the Fossil Sport are thin and light timepieces that are easy to wear all day and night long. It always seems like your arm is being squeezed down while wearing the bigger and heavier watches I've evaluated, which leaves a mark on your skin when you take them off. That is not the case with these two timepieces, which are also quite pleasant to wear.

While on the go, smartwatches allow people to access messages, alerts, or other sophisticated information quickly and easily. However, the capabilities of smartwatches are significantly enhanced when they are paired with other devices that people carry, such as their smartphones or tablets, which allows for unique cross-device activity processes. In any event, research on watch-driven, cross-device cooperation techniques has only produced a tiny number of studies to yet. As a general rule, current improvement units have very limited support for information motion recognition, unique sensor equipment setups, rapid interface designs, or cross-gadget availability and data interchange. It is a challenging task.

WatchConnect, a rapid prototyping toolkit for watch-driven cross-gadget collaboration techniques and apps, is our attempt to break down any barriers that stand in the way of complete execution of a concept. Using a wide range of built-in sensor mappings and test systems, the toolbox provides (I) a modular and extendable equipment stage, (ii) a runtime framework and client-interface segments that facilitate rapid prototyping of watch interfaces, and (iii) a rich arrangement of information and yield events and signals. Prototyping and detailing smartwatch-driven cross-gadget applications and collaboration approaches is the focus of this article, which uses replicated equipment and programming building blocks to get the job done swiftly.

BACKGROUND OF THE STUDY

We're all suckers for tales of triumph over adversity and the rise of the downtrodden. It's a powerful thing to see a less fortunate person triumph against a person who was born with a silver spoon. The Fossil Sport Smartwatch is a far cry from the Apple Watch Series 5 in terms of privilege. It's a lot less expensive than the Watch, but it's still a fully functional smartwatch. Is it an underdog, or is it a favourite? Is this a case of "you get what you pay for?"

If you're asking about the Apple Watch, I'm going to assume you're using an iPhone. Apple's smartwatch is not compatible with Android devices, but there are a slew of other wonderful choices for you to select from.

Productivity

When linked with an iPhone, non-Apple items confront unique challenges. The Apple Watch Series 5 has scored a big victory with this performance.

Messages, emails, and notifications

Fossil Sport on iPhone users will discover that although they may read and reply to alerts, they will be unable to do so. However, you would be able to do so if you were to utilise an Android phone.

As long as a reply is allowed on the notice in question, this is not an issue on the Apple Watch, which solves the problem entirely. Using a preset answer, speech-to-text input, or the word-building tool Scribble, you have a number of options for responding to alerts.
Even though the Fossil Sport appears on my iPhone, email alerts don't seem to be transferred to the watch. Everything is smooth while using the Apple Watch. The Watch comes with a corresponding app so that you may access your messages and email as if you were on your phone, even if you don't have an internet connection.

Text entry is possible on the Sport as well, however there is a keyboard rather than a Scribble input device on this model. The keyboard, in my view, is preferable than Scribble since it is a speedier method of input.

Software

But in terms of software, you'll be able to tell the difference. Every aspect of health on Apple devices is incorporated into the Health app, which is pre-installed on all iPhones. On the Fossil Sport, you'll need to download Google Fit to get the most out of the device (in addition to the Wear OS smartphone app).

Additionally, Sport does not have a built-in swimming exercise tracker. Tracking your swims is no longer possible without using a third-party programme. Using the Apple Watch's built-in swimming tracker, you can monitor your progress both in the water and on land.

Both watches' fitness tracking was a big plus for me. Both provide a selection of more than 40 exercises. That the Apple Watch didn't show my speed was a little frustrating. However, my biggest issue was that the Sport's battery was depleting at an alarming pace while using its GPS feature. The battery life of the Apple Watch is guaranteed to last all day. To be clear, both watches do not have built-in sleep monitoring. Why? Their batteries are going to die after another eight hours of use, and I can understand why. That being said, a third-party app is available for this purpose.

Verdict

It's difficult to beat the Apple Watch Series 5. Apple-exclusive functionality may be accessed via the Watch. Among them is the capacity to respond to alerts, which is a big deal these days.

If we were comparing the Watch to the Sport on an Android phone, the gap between them narrows. However, we must not forget that the largest divide here is cost. The Sport costs a fraction of what the Watch does. Regardless of the platform you choose to use the Sport, you will receive a lot for your money.

However, if you opt to purchase the Watch, you'll be getting the greatest iPhone watch for everyday usage. Paying's worth it for the ease of use, the variety of applications, and the ability to respond to alerts that come in. It's all about the horses. The Fossil Sport Smartwatch is a good option if you're searching for a basic, low-cost watch. If you want the best right out of the gate, the Watch is the way to go.

Problem statement

To summarise, the battery life, charging speed, blood oxygen measurement, always-on display, and body durability of Fossil's smartwatch are the most impressive of the four categories.

When the wrist is raised, the Apple Watch does not turn on.
Apple Watch keeps unread messages.
Error message: "No iPhone Connection."

The Apple Watch is unable to establish a connection with an LTE network.
The battery is most likely out of date and has to be replaced. The quartz movement may have rusted when it was exposed to water or dampness. "Fashion" timepieces, like those made by Fossil, are not recognised for their long-term viability.

Objectives of the study

- To know which company smartwatch, are more popular fossil or I watch.
- To study factors influencing consumer of purchase of fossil and I watches.
- To study consumer for fossil and I watch.
- To study brand awerness through online virtual community.

Hypothesis of the study

H0: Between A COMPARATIVE OF I WATCHES AND FOSSILS WATCHES, there is a substantial difference.

H1: Between a comparative study on watches made by me and watches made from fossils, there is no discernible difference in performance.

RESEARCH METHODOLOGY

Research design

Descriptive research

Research equipment :

Questionnaire

Sampling method　　:

Non-probabilitytechnique

Sampling frame

Conveniencesampling

Sample design

Data has been presented with the help of bar graphs, pie- charts, etc.

Sources of data:

Both the primary sources and secondary sources of data have been used to conduct the study.

Primary source:

The primary data for this study has been collected by approaching the salaried employees via internet (digital survey method).

Secondary source:

The secondary data are collected from articles published on various websites (desk research).

Plan of analysis

- Diagrammatic representation through graphs and charts
- Suitable inferences will be made after applying necessary statistical tools.
- Findings & suggestions will be given to make the study more useful

MethodsforDataCollection

- Primary Data

- Secondary Data

Primary Data

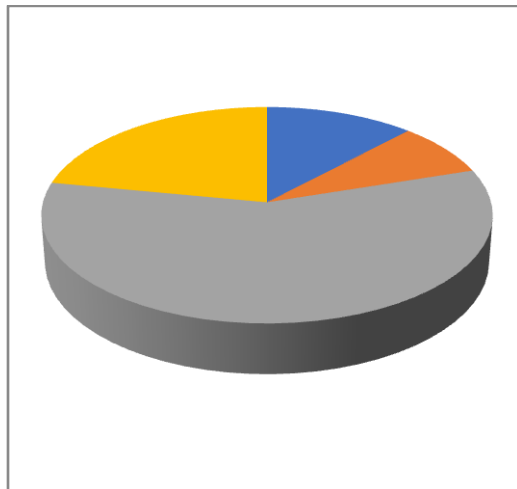Primary source of data was collected by questionnaire.

Secondary Data

Secondary source of data was collected from

books

journals

magazines

websites.

DATA ANALYSIS AND INTERPRETATION

What drew you to this watch in the first place?

Sl Number	Criteria	Number of responder	Proportion
1	Price	12	12%
2	Features	8	8%
3	Design	58	58%
4	Availabilty	22	22%

just 12% of those surveyed were in favour of You were swayed by the watch's price based on its visual design. In the beginning, 8% of responders lured you to this watch. This isn't a significant number. For 58% of those polled, this watch's opening statement was what attracted them in. According to the respondents, this watch pulled in 22 percent of them in the first place.

Which brand do you like the most?

Criteria	Frequency	%
Apple	66	66%
Fossil	30	30%

| Option 3	4	4%
Total	**50**	**100%**
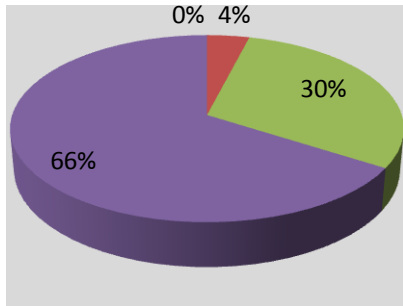
66% of those polled said Thirty percent of those polled preferred the Apple brand the most. Fossil is the brand that most people like. 40% of those who responded The most preferred brand is Option 3

Do you believe the new commercial is successful in motivating consumers to dress differently every day because of it?

| Options	Frequency	%
Yes	86	86
No	14	14
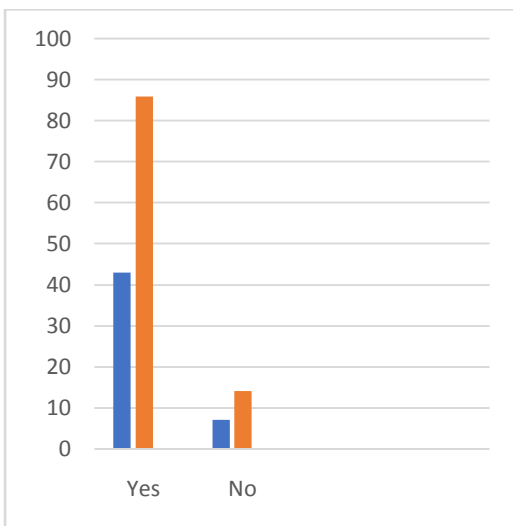
Interpretation

This new ad has been shown to be effective in encouraging customers to dress differently every day because of it, with 86% of respondents saying yes and just 14% saying no, according to this graph.

Which of these factors is most important to you are deciding to purchase thisproduct

| Options	No. of respondet	Percentage
Price	14	14%
Store location	20	20%
Customer services	50	50%
Convenince	16	16%
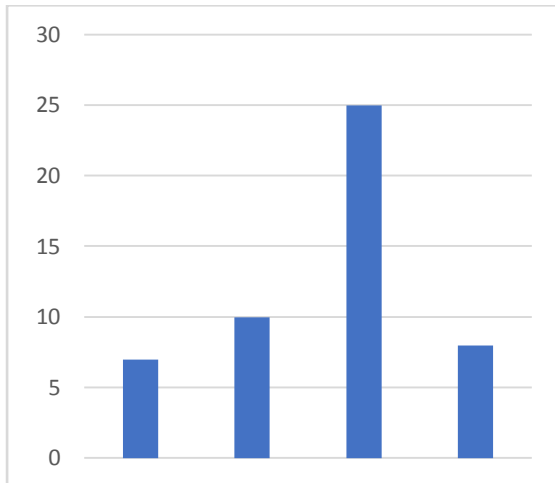
Interpretation

When making a purchasing decision, 14 percent of respondents say the following variables are most important to them: 20 percent of respondents said that store location was the most significant element in their decision to buy this product, 50 percent stated that factors were the most important, and 16 percent stated that factors were the most essential.

Which brand do you think has more a better quality ?

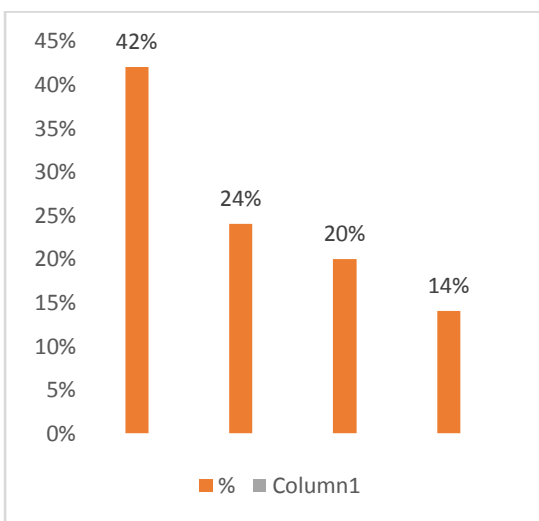| Options	Frequency	%
Apple	56	56
Fossil	44	44
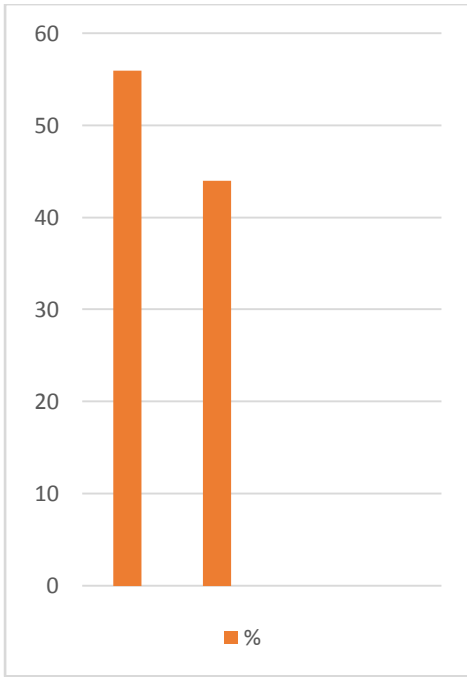
Interpretation

56% of those polled said yes. Fossil is favoured by 44% of those polled, while Apple is favoured by 54% of those polled.

Problem faced will using smart watch?

| Options	Frequency	%
Connectivity	42	42%
Brightness	24	24%
Battery life	20	20%
Features	14	14%

Interpretation

Connectivity was mentioned by 42% of those polled. 24 percent of those polled said they had trouble using an intelligent wristwatch. Brightness Using a smartwatch, 20% of respondents have encountered difficulties. 14% of those polled said they were concerned about battery life while wearing a smart watch. Features Using a smart watch will present a problem.

Would you recommend to buy a smart watch to others

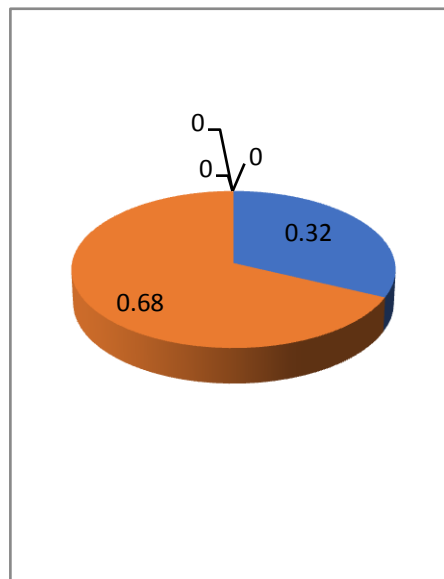| Options	Frequency	%
Yes	22	44
No	32	56
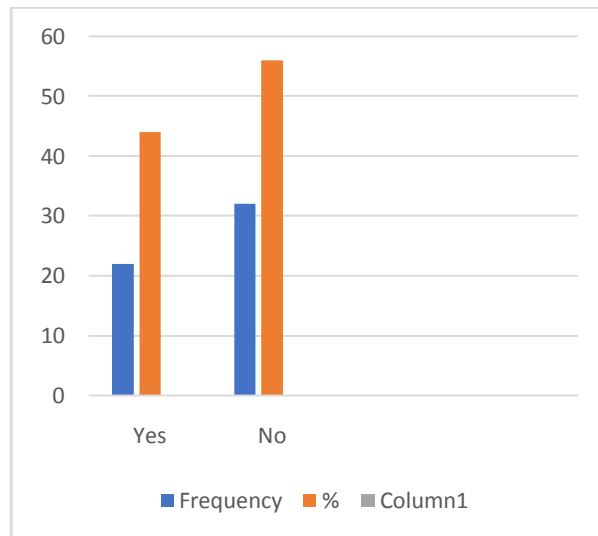
Interpretation

In the survey, 44% of respondents indicated they would suggest others purchase a smart watch, while 56% of those surveyed said they would not.

Have you used this brand before

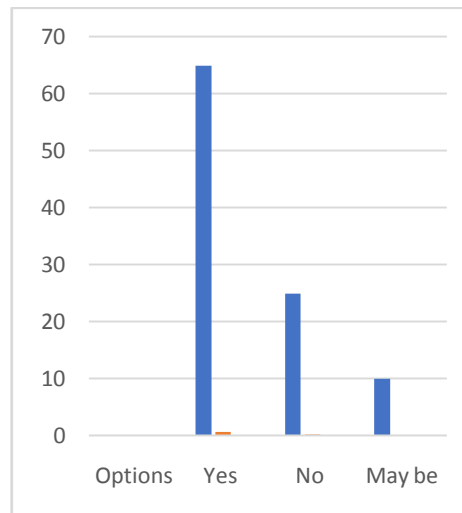| Sl number	Criteria	Number of responder	Proportion
1	Yes	32	32%
2	No	68	68%

Explanation

32% of those who said yes had previously used this brand; 68% of those who responded no had previously used this brand.

Do warranty affects you while making a purchase of smart watch ?

Options	Frequency	%
Yes	65	65%
No	25	25%
May be	10	10%

Interpretation

65 percent of those respondents said yes, 25 percent said no, and the rest said they weren't sure whether the warranty affected their decision.

FINDINGS

- Just 12% of those surveyed were in favour of You were swayed by the watch's price based on its visual design. In the beginning, 8% of responders lured you to this watch. This isn't a significant number. For 58% of those polled, this watch's opening statement was what attracted them in. According to the respondents, this watch pulled in 22 percent of them in the first place.

- 66% of those polled said Thirty percent of those polled preferred the Apple brand the most. Fossil is the brand that most people like. 40% of those who responded The most preferred brand is Option 3.

- This new ad has been shown to be effective in encouraging customers to dress differently every day because of it, with 86% of respondents saying yes and just 14% saying no, according to this graph.

- When making a purchasing decision, 14 percent of respondents say the following variables are most important to them: 20 percent of respondents said that store location was the most significant element in their decision to buy this product, 50 percent stated that factors were the most important, and 16 percent stated that factors were the most essential.

- 56% of those polled said yes. Fossil is favoured by 44% of those polled, while Apple is favoured by 54% of those polled.

- Connectivity was mentioned by 42% of those polled. 24 percent of those polled said they had trouble using an intelligent wristwatch. Brightness Using a smartwatch, 20% of respondents have encountered difficulties. 14% of those polled said they were concerned about battery life while wearing a smart watch. Features Using a smart watch will present a problem.

- In the survey, 44% of respondents indicated they would suggest others purchase a smart watch, while 56% of those surveyed said they would not.

- For 40% of those polled, the answer is yes; they exclusively use branded items. For 24% of those polled, the answer is no; for 20% of those polled, the answer is seldom; and for 16% of those polled, the answer is only when quality matters.

- 32% of those who said yes had previously used this brand; 68% of those who responded no had previously used this brand.

- 65 percent of those respondents said yes, 25 percent said no, and the rest said they weren't sure whether the warranty affected their decision to buy a smart watch.

LIMITATIONSOFTHESTUDY

In this tutorial, we discuss both long-standing concerns as well as those that appear out of nowhere.

As soon as feasible, we will provide you with a list of all the viable options. If you're having trouble with your Apple Watch, start with a basic remedy and only turn to more drastic measures as a last option. With that in mind, let's get right to the meat of the matter.

Costly smartwatches are out there. Some of the timepieces aren't even water-repellent. Compared to a cell phone, the touch screen is smaller. Because of this, battery life is a major problem.

SUGGESTIONS

The greatest Wear OS watch you can purchase is the Fossil Gen 5 Smartwatch. Performance, aesthetics, and customizability are just some of the areas where it excels. It would be nice if the battery life could be extended without having to constantly switch sensors on and off, but that may be more of a Wear OS issue than a Fossil one.

Despite the fact that the Fossil Gen 6 is a significant improvement over the previous generation, it remains to be seen whether it will be sufficient to compete with Apple's similarly priced Apple Watch SE. A well-known company, Fossil, adopts the circular form of a traditional watch in its Gen 6 whereas Apple employs rounded rectangular design.

CONCLUSIONS

To summarise, the battery life, charging speed, blood oxygen measurement, always-on display, and body durability of Fossil's smartwatch are the most impressive of the four categories. With a bigger screen, better glass, and more water resistance combined with a cheaper pricing, Apple has a significant advantage over the competition.

Despite the fact that the Fossil Gen 6 is a significant improvement over the previous generation, it remains to be seen whether it will be sufficient to compete with Apple's similarly priced Apple Watch SE. A well-known company, Fossil, adopts the circular form of a traditional watch in its Gen 6 whereas Apple employs rounded rectangular design.

There is a lot of potential for Apple Watch to revolutionise and improve the mobile device industry. There is a direct correlation between the presentation and execution of the production. Because no one else can catch up with Apple Watch, the company's emphasis should be on making the device's features even better so that it can maintain its market-leading position. Use of the Apple Watch has shifted essential features that have successfully boosted mobility and storage while creating an enormous challenge for future generations based on new gadgets. This is the digital world of today. Apple Inc., on the other hand, has developed a product that may suit the demands of the present generation with the Apple Watch. Apple Watch is primarily aimed at those in their 20s and 30s. A majority of today's youth is enamoured with Apple Inc., according to studies.

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