

Electronic News

BRD

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Introduction

Executive Summary

Electronic News is where you can find all about electronic devices. The user is allowed to sign up on the website to receive email notifications about the latest news of the electronic devices. The user also can compare between two different devices , he can as well add the devices he is interested in ,to his favorite list on his profile. In addition Electronic news offers daily tips to help the user with using different electronic devices , and if he wants to learn more about those devices ,he can find technological information and definition on the website.

Document Overview

This document introduce Electronic News product study plan. It introduce general description , technical description , development plan , operation plan ,cost analysis and marketing study.

Business Objective

- Offer a huge bank of technological information.
- Offer easy and effective way of adding new devices to the website.
- Offer daily tips concerning electronic devices.
- Offer a good collection of electronic devices in the market.
- Offer free and informative service to everyone.

Background

Introduction^[1]

God has given us everything like plants, trees, flowers, beautiful creatures and of course a very intelligent brain, through which man can do anything. As we all know that India has developed itself in technology and has invented many new electronic gadgets, which have many advantages and disadvantages. Man has become so intelligent that he has invented mobiles, telephones and the Internet for communication and many other gadgets useful in every aspect of life.

These inventions have made it possible for us to do many things undreamt of at the beginning of the last century. The world has become so advanced that we have computers and laptops in almost every household today. Internet facility is also a great invention. Mobiles help us to talk to anyone, anywhere at any time. Man has come a long way from the invention of the wheel. All electronic gadgets have improved our life a lot. So in the coming centuries we can imagine how our life might be.

There are hundreds of inventions which have revolutionized human life. Electronic gadgets are prominent among these inventions. They play a vital role in our lives. The electronic gadgets which we use daily consist of lights, televisions, computers, fans, A/Cs, refrigerators, telephones, cell phones, etc. Life would have been very difficult without these inventions. Let me give you an example of cell phones to show the importance of electronic of gadgets in our lives.

20-30 decade ago we had to wait for weeks to receive or send the message, but now after the invention of mobile phones and the computer, you can send or receive the message within seconds, even you can talk with your near and dears and you can do video calling via the internet through the computer ,so Cell phones have occupied a very important position in our lives. Think what would happen if cell phones or mobiles hadn't been invented? There would be long queues of people outside the PCOs who would be waiting to call up. You can easily imagine the scene. Also Television is one of the major source of

entertainment. We can watch TV shows ,sports match and many more things while sitting at home .It is also the good source of knowledge .

Nowadays many people cannot be separates from electronic devices. They believe it can help them to finish their work. It's true because by using electronic devices it will make us easier to do our job. For instance computer. If we use computer in working like make a report, send an email, and finding sources it will be easier beside we do not need use computer. It is because we do not need to write it manually, if we make a report or an email, we just type it in the computer and it will be faster than we write it manually. We also do not need to find sources that we need from magazine or newspaper, because now we have an internet in our life.

These were just small examples to show the importance of electronic gadgets. The same thing is true for all the other electronic gadgets. .Hence we can say that electronic gadgets play a vital role in our lives and it is hard to survive without them . so for the importance of the electronic devices in our life , this system can help the customer to buy all the electronic devices he wants from online websites.

Articles [1]

Articles have focused on the subject of online shopping of electronic devices these work can be represented as following:

By :Eileen Roberts is an expert in the field of electronics

The advancements in technology have made shopping electronic goods much easy. The power of Internet has made shopping electronics a breeze at our convenient time by relaxing in our home. With almost anything available in the Internet, electronic goods are no exception. Mobile phones, widescreen displays, TVs, DVD players and digital picture frames- all are available online. There are countless advantages in shopping electronic goods online.

One of the main advantages in shopping electronic goods online is the convenience. For example, if you drive to a retail store to purchase a TV, you will end up in the hassle of lifting (dragging) the TV to get it placed in your vehicle. Shopping online eliminates all these difficulties. You can buy the

television online, relaxing in your home and get it delivered to your doorsteps. Although shopping online eliminates the usual physical analogy of buying the electronic goods, it works best on people who have so little time to spare bearing with the traffic.

Online shopping is not all about comfort. It also saves a huge amount of your hard earned money. With the sky-rocketing oil prices, it will cost you a dollar or more once you hop into your car these days. More often, a trip for buying a 60\$ educational laptop will end up in a \$100 travel. To add to the savings, most of the retailers don't charge the sales tax accompanied with the electronic goods. This fact is not known to most of the people as this is hidden. You would have noticed that the cost of the electronic goods online will be lesser than that of the retail store. This is because of the elimination of sales tax. Comparison of products is the difficult aspect while shopping in retail stores. In the case of online shopping, you can make comparisons and choose the best product from the shelf.

Though shopping electronic goods online has many advantages, most people still consider it to be risky. The true fact is that shopping online is never risky if you pay close attention. Here are some tips for safe online shopping:

You would have noticed that all the web addresses will start with http://. For example, the web address will be like <http://www.example.com>. You should note that the web address changes to https:// when you are in the checkout page. This will ensure that the personal information that you have entered is safe. Most of the credit card companies offer certain protection plans. Hence it's always good to shop online using a credit card. Most importantly, always remember that "An offer that is hard to believe never exists". For example if some one offers a mobile phone for just 2\$, no doubt it's a scam. Say no to them at once.

The advancements in technology have made it simple so that anyone can reach anything they want from their home itself. Buying electronic goods online is another gift from today's technology to add comfort and save huge cash. [1]

login

first of all when the user opens the website he will see two options either to login his profile or to sign up for a new account . The system allows this function in order to :

a-send to the user the latest electronic news and devices that he wants to hear about and searches about them the most .

b-makes it easier for the user to find all what he is looking for in one place

Choose items

When the user enters his profile :

a- the system will recommend him a variety of electronic devices like mobiles and laptops with different models , prices , sizes , colors and techniques .

b-All the user has to do is to select what he likes the most and wants to hear and know more about .

c- After that the system will send to the account of user all the news about these devices and their new updates and new specifications automatically.

Build your device

when the user decides to buy a new device :

a- he should select which type of devices it is (computer, laptop, mobile) , then a list of specification sections will appear like (color , price , size , ram , processor , graphic card , cashe memory , internal memory).

b- in each section the user can choose whatever he wants , and after filtration the system offers all devices which have these specifications so the user can go through them easily and readily.

Compare between devices

when user is confused between two or more devices that he likes or wants to buy . the system offers the user a page which lists the specifications of each device separately from the other , so the user can see clearly the specifications of each device and can decide easily which device is more suitable and appropriate for him.

(HINT: this function doesn't say which device is better in each specification , it just displays the specifications of each device).

Recommendations for buying

when the user settles on a certain device, here comes the final step as :

a- the system offers the user many online links where he can buy this device from directly .

b- In each link the user will find the device with its specification , cost and shipping expenses .

c-if there is any discount , this will be declared in the online links .

Daily Tips

Most websites offer daily tips to customers:

a) to enrich their information

b) to provide them with knowledge they need in certain domain.

Not all people are well aware of technology and technological devices so they need more information about what they have in hand :

a) to make their life easier

b) to be more in touch with those devices.

Tips are very simple statements , written in simple language for all people with different ages so everyone can benefit from them.You don't have to be expert to understand tips as tips are written for people who don't belong to this domain. There is a tip for everyday and something new to learn about.

(for example how to have good habits for prolonging the cellphone's battery life.)

Email notifications

Email notifications are helpful because they provide the user with information in quick way without the need to check the website every now and then.

Whenever there is something new or information updated on the website that

the user need to know, email is sent to the user's inbox to notify him about whatever he need to know that is now available on the website .

Email notifications can vary :

- a) they could be about product the user has previously added to his favorite list
- b) they could be about a new product that is released onto the market
- c) they could be a new piece of information he wants to know about.

Email notifications are frequent to ensure that the user is well connected with the website in the most efficient way , all what the user needs to do is signing up on the website.

Favorite list

Most users like saving certain products that they are interested in , to know about them more in another time, so favorite list does that job.

Whenever the user likes a product but he is still undecided whether to buy it or not , he can add that item to his favorite list to check it later without the need to search for it again. The user may like to add multiple items to his favorite list to probably compare between them when he wants .

Favorite list will include all items the user wants to save for later use, or items the user is interested to buy .

Favorite list is efficient way to keep the devices the user is interested in , in a safe place. There is a favorite list for every user when he signs up on the website , so it's too personal and private .

Adding new products to the website's database

Every now and then , a new technological device is released onto the market with improved qualities than before, and spare parts are becoming available , since technology is changing very fast in our era.

In the past , there was a big gap between one and another technology. Technology was not evolving in a quick way , there were many things yet to be discovered and implemented .

But now , we are in the 21 century ,having a lot of talented and skillful engineers working hard everyday to discover more and more and challenge themselves to go beyond what have been known as the latest technology .

So a website regarding technological devices need to be up-to-date whenever a device is released or any information could be updated .So having an option as a website owner to have the ability to add new device without much coding and without much knowledge about programming is a great functionality indeed.

Whenever you need to update your website and add more information , you can do it easily and in quick simple steps.

Technological information

A lot of technological definitions are not well known to most users. There are a lot of definitions that need experts to understand them well .

Technological definitions can be scientific or commercial so it's complicated to be familiar with these definitions without help from those who know more than you.

As in our modern era , a lot of people are showing interest in technology and read a lot of sources to be cultured and have better awareness of how the world evolve rapidly .

Technological devices are common with teachers, drivers, students, doctors..etc. All these people need more brief information and definitions about the technological devices they own. They also need to know such pieces of information when they need to buy a new device with quality that suits them the most.

So being provided with technological information is the best help they can be offered to:

- a) understand their needs
- b) Know what to look for in the device they want to buy

Also if anyone is just interested in technological books and courses, he can know about the best courses and books available for him to start self learning.

System Description

What is Electronic News ?



Imagine a system where all you want to know about electronics is here. first the user needs to sign up an account to receive notifications about the latest news in electronics world and electronic devices. the system offers to build the electronic device user wants to buy based on choosing the specifications he is interested about like: type , price , color...etc.

The user:

The user can compare between devices, add his favorite devices to cart and when the user settles on certain device, The system lists online websites where he can buy it from . The system offers daily electronic tips to the user like: how to extend the lifetime of a certain device, save the battery, instructions during charging and many other tips. if the user wants to know about electronic information he has no idea about it, all he needs to do is to search about this information in the section of technology information where he will find the description of it like: graphic card, ram , rom and some examples on it .

System Architecture

Electronic News produces a lot of services to all kinds of users . These services that we will show you in our modules.

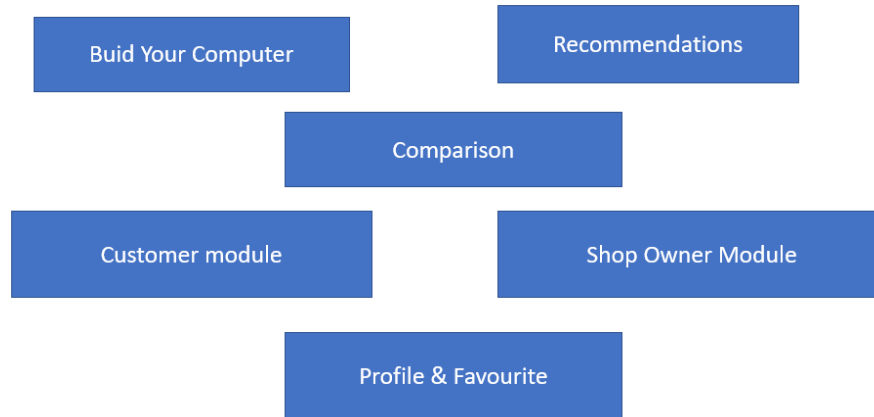


Our system consists of the following modules :

1. Build Your Computer
2. Comparison
3. User Advantages
4. Shop Owner Advantages
5. Recommendation
6. Increase Your knowledge
7. Profile

We will discuss every module and show you how they do.

Electronic News



• Build Your Computer

This module is one of the best modules we have here in Electronic News Website . this module allow the user to build the computer you want with all the specifications that the user want .

This module makes the user be very happy when he use it because he doesn't need now to see all the products to find the most suitable product for him .

Now we saved his effort by letting him build his computer and find it very fast. The user now do the following steps to build him computer :

- Select the type of the product
- Select the type of processor
- Select the type of the graphic card
- Select the size and type of ram

So when the user finish these steps now he can see the results of his specifications and this the best thing that we saved his time by making the choices less than the normal way.

So when the results appear to him , it will be showed in the best way to make and agree with his specifications to make him choose the product he wants by the most easiest way .

- **Comparison**

After we searched for the best choices of the products ,we still have this doubt with the products we choose. So what we can do for this problem ?

We take this problem into consideration when we thought about this website and the solution of this problem is here in this module.

This module provides a good comparison to the user to select the best product he wants . our comparison module compares with a lot of specifications to make the user see the difference between the devices very clear and doing this by the most common and effective parameters in each product . this comparison based on the features and the type of each product .

- **Recommendations**

If you are a person who wants to know everything new in the world of electronic devices or fan of products of a certain company this module will make you happy.

Recommendations module allows the user to see the most recent updates about his favorite products or companies by letting him choose the products or the companies he wants to know everything about it .

We provides the suggested products from the choices that the user choose to make him see the latest news of every product he wants to hear about.

- **User profile & favorite Module**

In this module we make the user special accounts . these accounts allow the user to benefit from the different features that the website provides.

These features allows the user to compare , see recommendations and build his computer etc ..

In this module we provide profile to each user to make it easy for him to save the products he choose .

This thing we called it favorite module to make the user save every product he wants in this section.

- **Shop Owner Module**

The users of the websites differ from one to another so when we take this thing into consideration . there are users wants to buy products also there are another kind of users called the shop owners .

These kind of users wants to show the customers its products by letting every user see it online so we made this option to them .

Every shop owner will have a different account . this account letting him show his products putting his price but to publish it in our website he must fill the standard specifications and describe everything he wants in this product to make the customer have a good idea about the product.

Now the customer can see the products with its description to choose the best suitable product for him . this module make the website suitable for a lot of kinds of users . this thing make a greet benefit to a huge sector of users.

System features

Find your electronic devise

User can easily find the system he is looking for by specifying what he / she interested to do on this device or why he need it. for example if user need mobile for gaming or taking professional photos he will have the devices which doing that perfectly .

Also the user will have some filter to make the search on devices easily and allowed the user to find the most adequate device.

Getting tech information

User can understand every parameter and tech on the device he interested to buy, and what is the best for any parameter , for example he can understand why a certain CPU is efficient or more powerful than another CPU and what is the meaning of a certain tech like multicore .

Show your shop

Electronic stores can make a page on the site and add the item they buying on it and the price of every item and some details about them . and the user will find that this shop is buying that device on the page of the device .

The authenticity of the info

User can trust in every information and details of any device on the site as it will be taken from the company made that device.

What's new

User will know any news about electronics. the news will contain the new devices on the market, the new techs , the news of the electronics companies like (Apple , Samsung , Intel ,)

and the user can receive message on his email to keep in touch in this news.

Simple interaction with user

User can browse the site easily, he can register on site and that will manage him add any subject on the site to his profile favorite list and back to it later from his profile, he also can choose topics he is interested in to get its information as soon as it will be available on the site, user will also enjoy receiving notifications on his profile and on his email about any new information or subject on his interested fields to keep in touch with its favorite topics.

Follow your favorite brand

user can chose brands or the company he is interested in to get any new information or news or new products about his favorite brand.

Good classifications

The site will show to user an organized data and topics. The site will have separated sections to ensure an organized data and not interfere the subjects from different fields on electronics. For example section for devises, news, electronic information and there are sub sections in the main sections to ensure organized data.

User interface

our site will include many sections on it and each section will have many pages on it

- mobile section, news section, computer section, information system for example mobile section will have more than one page.
- page to explore the mobiles and the new mobiles in the market.
- page for each mobile to show it's properties.
- A page to Compare between two mobiles or more.
- page to let user to find a mobile based on filters. so there are many pages, data and details on the site.

our site provide to its user the flexibility, many web sites have multicable pages and many details which make many users confused unlike our site.

there are a fixed part on the screen that will let user to :

- go to any page from the main pages on the site (section page)
- enter his profile
- show his notifications
- open his favorite list

One more thing

there are many web sits provide Services we already provide but this web site will be made to improve offering this services.

for example Comparing device with another device , user can just Compare between two device or more on other sites , our site will show him devices similar to the two devices he is comparing, he may be listen nothing about them , user also will be provided a links that may help him to know about his device .

these links will be :

- review for the device

- videos and articles for the device

user also will find simplicity while using the site as the site is fast and has a simple design make any user use it simply.

Pc picker

our website provide the service of get your computer to two types of user.

The simple user can find his computer without deep knowledge on computer systems and without knowing every piece on the computer and what does it do and what is the difference between it and other piece .

simple user should only determine two things :

- his budget.
- why does he need the computer or the main use on the computer.

And our website have systems of computers which were defined for every use and for budgets.

And the other type of user who has knowledge about the computer and would like to determine some pieces on the computer like :

- CPU
- Memory
- Hard disk
- Graphic card

System Development

Overview

The system development is performed using Agile Method, initially we will start with some certain functions like (making the user able to choose his interests and give him the latest news about his interest, technical tips, comparisons such as comparisons between sensors, computers and mobile phones... etc.) and later we will add some more features, the first version of the system should take about 7 weeks, after releasing it will enter an initial operation phase for 1 week, and during that phase we will communicate with TA, professors to check our system, after that phase our system will enter another phase and it will be the last one to check whether it needs any maintenance or new feature.

Development Plan

	1	2	3	4	5	6	7	8	9	10	11
Study Requirements											
Learning Phase											
Planning											
Planning review											
Implementation & Searching											
Testing											

Interfacing and communication											
System testing											
Release											

Operation Plan

	1	2	3
Operation			
Maintenance			

All of the team members

Some of the team

Team

Team	Role	#
Development Team	Team leader: Abanob medhat	1
	Web Developers: Abanoub salib Ahmed Ashraf Mariam magdy Chelsea essam	4

Testing Team	Team Leader: Abanob medhat	1
	Members: Abanoub salib Ahmed Ashraf	2
Operation Team	Team leader: Abanob medhat	1
	Members: Abanoub salib Ahmed Ashraf Mariam magdy Chelsea essam	4
Maintenance Team	Team leader: Abanob medhat	1
	Members: Abanoub salib Ahmed Ashraf	2

Tools

(Electronic) will be developed using open source Tools, languages and services, also for planning we will use an open source tool to help us make a more efficient, easy plan.

While developing we will use some offline and online tools, offline tools to make it easy for each team member to focus on his own project, also we will use online tools so after he finish whatever he did he will share it with other teams easily

Assumptions

- 1- The system completely depends on free open sources
- 2- The user should be interested in electronics, so he can get benefits from our site
- 3- The system depends on some trusted famous websites
- 4- The user Knows how to read in English as our software supports only one language

Operation	Recommended Tool
Tasks and delivering	GitHub
Programming Languages	Python Django, HTML, CSS, Bootstrap
Documentations	Google Documents
Operating System	Windows 10
Communication system	Messaging And meetings
Host management	WHM

Cost

There's no cost for our product as it's pure software and we only using free online tools which we don't need

Limitations

- 1- our system doesn't provide buying something from it as you can only read about it and make a comparison, but we can provide places for you from which you can buy whatever you want
- 2- We can only provide a certain number for your interests

Risks

- 1- developers have other projects to work on
- 2- Some of tools we are using became no longer free
- 3- there were a problem between the team members
- 4- there were a lot of visitors at the same time which may broke our system
- 5- our trusted famous websites didn't want to make us use their information

References:

[1]

https://www.selfgrowth.com/articles/Advantages_Of_Buying_Electronic_Goods_Online.html