**Feasibility Report**

* The client for whom the work will be done.

Sir Dr Mansoor Ebrahim

* List of team members and email addresses.

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* A statement of the task to be undertaken. A preliminary requirements analysis.

The online shopping system is fast gaining media for to sale or purchase items from anywhere and anytime. It is basically based on Internet, It is related with B2C (Business to Customer) model and status of the design and development of e-commerce platform. It can not only save the operating costs of enterprises as well as save the time of customer to go shopping at mall and it is increasing the efficiency of business.

The project allows online shopping customers to accumulate a list of items for purchase, described metaphorically as “placing items in the shopping cart” or “add to cart.” Upon checkout, the software typically calculates a total for the order, including shipping and handling (i.e., postage and packing) charges and the associated taxes, as applicable.

**A Preliminary Requirements Analysis**:

1. User Registration
2. User login system
3. Change password
4. Forgot password
5. Profile management system.
6. Shopping cart
7. Wish list
8. Order History

**Features of Admin**

1. Product Management(Add, Update, Delete)
2. Order Management System
3. User Management
4. Category/ Sub Category Creation and many more

* Suggested deliverables.

In the proposed system, as discuss in the abstract we are going to develop the new website Online Shopping System for computer products. In the website I followed the software development methodology called incremental approach and according to it the system is mainly divided into the two kinds of users and three kinds of mechanisms in order to make more suitable for the end users to fulfill their all requirements from one place with quick and in more understandable manner. Here two kinds of users are Admin and End user means customer. In addition to this, three kinds of methods which considered here are NetUI means make available access to the end users for everything from the net which is developed with help of JAVA and HTML, second one is the database which used to store large amount of data and easily can retrieve, update etc., and last one is the controls used for the same. Thus here we followed the model based UI design approach. The important things which we added with this website is the latest product with latest configuration customer can choose as per configuration of that product, external devices and security for transaction.

* Process to be followed, e.g., iterative refinement, agile, modified waterfall model, phased development, etc.

**Software Development Process**

The model of incremental is performing the waterfall in the overlapping sections in order to attempt length compensation for the waterfall model projects by generating the earlier useful functionality.

As compared to the waterfall model, a project which uses the incremental model is starting with the general objectives. In this case, some part of such objectives are defined as the requirements as well as are implemented, after that the next part of these objective are considered and implemented, this process is continues until the complete objective is achieved. However as compare to the complete requirements general objectives can be uncomfortable for the management. Well defined interfaces are needed due to the fact that few modules may be completed early compare to others. This model is more flexible for the development of the websites as compare to the software’s. Thus we selected incremental model for the same.

For our proposed application we have to use the method of Incremental approach which is best suitable for such kinds of applications. Because of the following benefits from it:

* Generates working software quickly and early during the software life cycle.
* More flexible, less costly to change scope and requirements.
* Easier to test and debug during a smaller iteration.
* Each iteration is an easily managed milestone.
* Due to iteration each phase complete within time period.
* Outline plan, showing principal activities and milestones.

Thus as we used the incremental methodology of the software development, this project is divided into the different phases like requirement analysis phase, designing phase, development phase, deployment phase, testing phase etc. Following chart shows the overview of the proposed project plan with their time durations.

**Website Development Phases**

1) Table for the Effort Estimate

1. Module
2. Duration
3. Outcomes
4. Milestones

**Existing Website Analysis and comparison with proposed one**

1 weeks

**Software Development Methodology**

2 week

**Planning and Designing**

1+2 weeks

**Flow of System**

1 weeks

**Modules designing & their outcomes**

2 week

**Design document Development and Deployment**

3 weeks

**2) Module Description**

**Description**

**Module 1**

Information analysis.

Gathering of Information as well as analysis related to the online store or website for computer products.

**Module 2**

Technology & methodology. After conducting the analysis, selection of the technologies as well as methodologies is done by considering all the consequences.

**Module 3**

Flowchart Designing.

Module assignment as well as flow control of process according to the methodologies selected.

**Module 4**

Website Implementation.

All modules code implementation.

**Module 5**

Testing.

Overall website working is tested and conducted.

**3) Project Plan**

|  |  |
| --- | --- |
| Date | Module |
| June 20 | Module 1 |
| June 27 | Module 2 |
| July 10 | Module 3 |
| August 16 | Module 4 |
| August 25 | Module 5 |

**4) Quality Plan**

In this section, some of the quality planes which are considered in order to maintain the quality of the proposed website. The major quality measure which we considered for the website is the proper validation for different things and response time of the proposed website because on the basis of this customers attraction is depends. Following is the brief explanation of these terms:

1) **HTML Validation**

Using this validation we can check the document correctness against the DOCTYPE which is declared. On the basis of this various kinds of reports generated if there are any bugs with it.

2) **Validating Links**

This is one important issue with the websites. Links of the website are checked against the all links given in the website whether they are working according to the specification given.

3) **Validating Accessibility**

This is the most important activity which must be included in every website quality planning. It is not enough only to make the website, because people from different places, with different platforms accessing our website. The initiative of web accessibility is the maintaining the resources list which will help in order to designing the websites which will accessible.

4) **Response Time**

For the websites like proposed one it’s necessary to check up with the response time of server because with websites several shopping transactions need to be done.

* Visibility plan. How will you keep in contact with the client and report progress? How will you communicate among your team?

**How will you keep in contact with the client and report progress?**

I will inform the client about timely reports & updates and I will give him track of all activities perform at software house and I will also make sure that my sub ordinates are working in a good manner & delivering all the requirements on the time & Thus communicate with the client & I will also make sure the client is satisfy with my work and I will take his feedback about my work so that can improve what I have given him up-till now.

**How will you communicate among your team?**

I will ask the team to finish the work properly on time & I will also ask my team members to make proper recordings of the task they have perform. I will motivate my team by appreciating their efforts and given them sort of treat ☺.

* Discussion of business considerations
* **Get everyone involved in setting goals and objectives.**
* **Find out all you can about your customers.**
* **Understand who your competitors are.**
* **Identify your strengths and weaknesses relative to opportunities and threats.**
* **Determine which capabilities you absolutely need to succeed.**
* **List all the things you do that add customer value.**
* **Make sure that you do your financial homework.**
* **Imagine several different versions of your company’s future.**
* **Appreciate the impact of the Internet on your business sector.**
* **Recognize the value of leveraging social media.**
* Risk analysis. What can go wrong? What is your fallback plan?
* **Passwords**

The first rule of any online risk management process is to use secure passwords. The most common mistake is to use the same password for everything. That may make it easier to remember them, but it’s also a huge security risk. When you set up passwords for sites where you’ll be spending money make sure you use a different, more complex, password. With so much online shopping done through mobile, make sure you password protect your devices with a separate password too.

* **Protection**

If you do find something on a site you’ve never used before, you need to make sure that the checkout is secure. This also goes back to standard online risk management. Whenever you’re inputting personal information, but especially if you’re entering financial info, make sure the URL starts ‘https’ rather than ‘http’. That means the site is using a secure server.

* **Payment Method**

In risk management, if you can’t prevent a risk you should try to mitigate potential damage. Some payment methods offer one or both of those options. PayPal offers great protection for online shoppers, as they protect your purchase for 45 days after a sale. Alternatively, if you don’t use PayPal it’s advisable to use a prepay credit card or a low limit card that’s only for online shopping. That way if your details are compromised, the damage will be limited.

## ****Privacy****

Privacy is important to everyone, but many people give it away all too freely online. Most online forms have minimum requirements for information sharing, it’s important that you don’t share more than you have to. This is especially true in locations that take payment details.

* Probable technical requirements
* **Security at the Core**

Your e-commerce website should be secure and should be shielded from hackers. Usually, your website should have 256-bit layer TLS (Transport Layer Security) protection for an end to end encryption.

As per current scenario, the website should be upgraded TLS 1.2 standard so as the data should remain encrypted from the moment person enters the website to when he leaves the website.

HTTPS which is basically HTTP with TLS protection is the most obvious solution to provide privacy to any kind of online web transaction.

* **High Performance**

Today with the availability of faster mobile networks over the geographical area, consumers expect a faster page load speed.

For the better performance of your e-commerce website performance, you can make use of website monitoring tools to make sure your website performance is at all boosted up.

* **Content Delivery Networks**

CDNs are the most appropriate way of delivering contents to your customers around the world. It caches the contents on servers located in different parts of the world.

* **Website Caching**

Caching makes your websites extremely fast and achieves better SEO scores which increase user satisfaction and leads to better conversions and increased income if you’re selling products or services online.

* **Data Compression**

You can use tools like Gzip to compress the data before they are being sent to the browser.

By making a few changes in your server configuration files, your web server will provide smaller file sizes which load faster for your website users.