

Feasibility Report for Web Development Project

(Website Development)

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Deliverables for Assignment 2:

Feasibility Study and Plan:

The following project is focused on the aim and objective given to us by our client Hammad-Ur-Rehman. He is trying to make his side-business which he was previously running through Social Media Official by making an eCommerce website. He is having trouble running his business through social media because of multiple purposes like stock management, displaying product to his customers, applying taxes on his products, and many more and to overcome on these problems he wants an eCommerce website which can maintain and solve all of his problems. And he can run his business more efficiently and increase it throughout the country. We plan to accomplish the demanded features that he wanted on his website by which he can maintain his business easily and more efficiently without any more problems that are described above. And we will try to fulfill his demands in the given time with honesty and teamwork.

Surveys:

Survey 1 (Mubashir Zulfiqar):

In my research in the making of this website, I have been visiting several other e-commerce websites that are running people’s businesses and expanding it exponentially throughout the world or in their respective countries. Our site is mostly similar to those websites with almost similar features except the UI. UI of our site will probably be different from other websites on the internet. Our UI will be responsive and beautiful. Our site will perform almost all the functions that an eCommerce website should have in it. And we will make sure that our website fulfills all our client needs.

Survey Questions to ask the customer:

* What is the purpose of your website?
* What was the main reason to build this website?
* How do you think that a website can bring change /increase the selling of your business?
* Do you have a slogan or tagline that clearly describes what you offer in terms of benefits or features?
* What image, look, or feel do you want your brand’s website to portray?
* What specific functions or features do you want on the site?
* Describe your targeted audience?
* How will you measure the success of websites like traffic, sales, or subscriptions?
* What is the most important information your site must relay to the user, especially on the home page?

Survey 1 (Muhammad Umar):

**During my research into creating this website, I have certainly visited some kinds of other eCommerce websites, most of which run the businesses of individuals and extend it massively around the world or in their respective countries in a relatively significant way. Our platform is identical to those websites with almost similar features except for the user interface, or so for the most part. Our website's user interface would probably be different from other websites on the internet, somewhat contrary to common belief. The UI should be very sensitive and stunning, which is pretty important for the most part Our platform is identical to those websites with almost similar features except for the user interface, or so for the most part. Our website's user interface would probably be different from other websites on the internet, somewhat contrary to common belief. The UI should be very sensitive and stunning, which is pretty important for the most part**

Survey Questions to ask the customer:

* Where did you first learn about us?
* What are you unsure about with your purchase?
* What other information would you find helpful on this website?
* What other options were you considering before buying from us?
* What convinced you to buy from us?
* What’s the project budget?
* What’s the project timeline?
* What’s the scope of this project?
* Who is the website for?

Survey 1 (Hammad Ur Rehman):

A survey is not just an online tool that helps you jot down a list of questions. It’s a great way to gain insights into what your audience thinks, feels, and most importantly—what it wants.

Our team survey was a great experience because we got to learn many things. This way we also learned teamwork and team management.

We did surveys and research from different sites and with project-related workers. There are many E-Commerce websites like Daraz, as we all know Daraz was a very basic website in the beginning, but in some times they got famous and now there is also a courier company named “**DEX”** which belongs to DARAZ.

Survey Questions to ask the customer:

* Why do you want to have a new Website, or have your current site redesigned?
* What will happen if you don’t have a new website, or have your current website redesigned?
* Please describe your website in few sentences?
* What is the background that sets you apart for a special group of potential customers?
* What problems does your prospect have that your business solve?
* How much traffic are you anticipating?
* Who are your competitors?
* Who is your ideal customer?
* What are your favorite websites and why?

Feasibility Report:

The Client for whom the work will be done

Our Client is Hammad-Ur-Rehman he consults us for making an attractive and responsive eCommerce website for his business. He has a business of online clothing stores which is previously his side-business. Now he wants to make his side-business, his official business. Previously he was running his business through social media like WhatsApp, Facebook page, etc. But now he wants us to make him an eCommerce website by which he can run his business easily without any more problems like calculating taxes, maintaining his stock, and many more.

A statement of tasks to be undertaken. A preliminary requirements analysis

In this advanced period of time, everything is becoming human friendly like these things E-Commerce stores are increasing at an incredibly fast speed. E-Commerce stores are one of those businesses in which an owner can maintain through anywhere with ease. And his customer can get their customers can get their products at their doorstep. E-Commerce store increases the business of the owner throughout his country and if he wants outside his country. So that we have a new task to make an e-commerce store for our client. So that customers can log in/signup to the e-store can make purchases for their desired or add products to their wish list product and then make payment and checkout and make purchases successfully so that their order will come to their home easily.

Preliminary Requirements:

* User signup/login
* Wishlist setup
* Cart system
* Simple Product
* Variable (Categorized) Product
* Creating Digital Downloadable Product
* Creating a Blog Post
* Order History
* Creating Track Order Page
* Payment Integrations
* Shipping Setup
* Taxation & GST Settings
* Making Website Mobile & Tablet Friendly
* And many more.

Suggested Deliverables

In the new framework, as we spoke about building the current platform Online Shopping System for Fashion Offering within the special, we are attending. I took inside the site and agreed with the computer software development technique called gradual solution, the program is split primarily into two categories of users and three types of procedures to make it more convenient for end-users to meet all their specifications easily and more reasonably from one location. There are two types of users here: Server, and End-user includes the customer. The three procedures we will use in our project are WordPress through which we will perform two tasks first we will create an amazingly responsive and attractive UI for our client’s customers so that they can easily communicate with the website. The second procedure is the plugins we will use in our WordPress through which we will make our site fully functional and make all the feature so that our site becomes full responsive and perform all the function effectively. Ant the third procedure is the storage of our website data we will use the database of our hosting provider to store the data of our website. We will deliver a beautiful, secure, and responsive website to our clients through these procedures.

The process to be followed, e.g., iterative, refinement, angle, modified waterfall model, phased development, etc.

**WATERFALL MODEL** is a sequential model that divides software development into pre-defined phases. Each phase must be completed before the next phase can begin with no overlap between the phases. Each phase is designed for performing specific activity during the SDLC phase.

Phases of the Waterfall model:

|  |  |
| --- | --- |
| Different phases | Activities performed in each stage |
| Requirement Gathering stage | * During this phase, detailed requirements of the software system to be developed are gathered from the client |
| Design Stage | * Plan the programming language, for example, [Java](https://www.guru99.com/java-tutorial.html), [PHP](https://www.guru99.com/php-tutorials.html), .net * or databases like Oracle, MySQL, etc. * Or other high-level technical details of the project |
| Built Stage | * After the design stage, it is built stage, that is nothing but coding the software |
| Test Stage | * In this phase, you test the software to verify that it is built as per the specifications given by the client. |
| Deployment stage | * Deploy the application in the respective environment |
| Maintenance stage | * Once your system is ready to use, you may later require to change the code as per customer request |

Outline Plan, showing principle activities, and milestones.

Our outline plan is firstly we search the internet for the website that fulfills most of the demands of our client and then we will start the analysis of those websites and make notes of the important things like UI design ideas, plugins used in the backend, etc. And then we will start working on the backend of our website I make this decision of first working on the backend because I think it is better if all the backend things are ready like Wishlist, Cart, Product Categorize, payment options, etc. So that when we start working on the UI, we will have all the tools ready for us to apply on our website and we will concentrate better on the responsive and attractive design and content writing of our website. And then the testing part comes into the play, we will test our website by adding products, checking payment options, adding reviews on the products, purchasing products, adding items/products into the cart and wish list and in many ways. And then we handover this website to our client.

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

We will keep our client informed about the project he has given to us by Emails and other social media platforms he is comfortable in making contact with us. We will give his report & updates about his projects from time to time and will arrange a personal meeting if necessary. We will try to satisfy our client's needs with these reports & updates.

And in our team, we will also be in contact with social media platforms and GitHub. And I will ensure that my team is working fine and completing their tasks on time without any problems by seeing over them and solving their problems on GitHub or social media platforms and personal meetings if necessary.

Discussion of business considerations.

* Engage others in setting priorities and objectives.
* All you can figure out for your clients.
* Comprehend who are the rivals.
* Identify your prospects and risks strengths and weaknesses.
* Determine the skills you need to excel completely.
* List all the consumer service derived items you do.
* Make sure financial research is finished.
* Picture several separate visions of the future of the business.
* Love the effect on the market area of the Internet.
* Understand the importance of social networking power.

Risk analysis. What can go wrong? What is your fallback plan?

There are some risks in our project that we discover during our research and study on our project and we have thought a fallback plan for almost all of them:

* Clients requirements need to change for business reasons:

We tackle this issue by negotiating with our client because it is not our fault that his requirement is not met according to his need he should have looked into that what he needs for his business and then contact us but he gave us wrong info or his requirements changed due to some other reasons and because of this all of work comes screeching to a halt. That’s why we will demand additional time and payment because of our additional time and work we put into his project according to his demands.

* If a team member is ill:

We first try to complete the project in time with the limited manpower we have and if it not possible to complete the project on time then we ask our client for more time.

* If our client is not satisfied with our work:

We will give some revisions to our client and ask him to notify us of the details of things he doesn’t like or in what way our work does not fulfill his need and then we will try to fix it.

* Much fancy Content Management System (CMS) / Ecommerce websites got hacked:

As we all know the internet is a bit of a nasty place. There’s a lot of miscreants looking to spread spam viruses using your website or hijack your web host’s server to attack other sites or most importantly intercepting your customer’s credit card or personal information. Any website can get hacked. That’s why we need to secure our site as possible. And for Content Management System (CMS), E-commerce sites, and other systems that are programs running on another computer somewhere, there’s more to keep up-to-date to keep miscreants at bay.

* In case if site data get deleted:

Content Management System (CMS) / Ecommerce websites stores content in databases. So, to overcome this risk of delete file we need to back up our data in a secure place.

* And many problems and risks can occur during the process and we will try to solve them with our skills and hard work.

Probable technical requirements.

We will try to find a Hosting with a good reputation for our client so that he will never be in any problem in future we will make sure that our website will have a good SSL layer because our client website is an eCommerce website and this website is one of those types of website that requires the personal credentials of the user visited on the website for payment and many other things. We try to have Cloudflare a company that is great for encrypting the communication between the website and the customer so that the customer's information will remain safe and encrypted by end-to-end encryption. And redirect all of the connections from the user of the website from ‘HTTP’ to ‘HTTPS’ where ‘S’ stands for Secure Connection. We will try to make our site as light as possible so that in this era where everything is going at an incredibly fast pace our website will not fall behind other websites for that we will try to compress the data we use in our website and make sure our site health by many helpful monitoring tools like google analytics, etc. So that our site will become fast and become more reliable for our client’s users. We will use Seo tools to increase our website traffic by increasing the visibility of our website to users of a web search engine. So that the website will grow and increase its user’s quantity. And as you know better SEO score is directly proportional to better user satisfaction. Probably these are our technical requirements that we will use on our website.