Scope Management - Webpage Development

Brady Chin

Colorado State University Global

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Dr. Jonathan Vanover

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Deploying a customer-facing webpage for a 3D printer company is a multifaceted project that requires meticulous planning and execution to ensure it meets stakeholder requirements and delivers an exceptional user experience. To ensure that the development of this webpage goes smoothly, we will have to create a strong plan scope measurement process, have the proper tools and techniques, and outline the project lifecycle plan.

Plan Scope Management Process

The plan scope management process begins with gathering the necessary inputs. To do this, we can use the project charter (Pratt, D. 2010). The project charter gives us a high-level overview of the project objectives, requirements, and gives us a baseline for the scope management plan. The scope management plan will then give us guidelines on how the project will be executed along with the goals that we are to work towards.

To manage the project scope with efficiency, we will need to ensure ether the proper tools and techniques are present. It would be best to hire constants who are experts in web development and 3D printing technology to provide their expertise. We could conduct meetings with stakeholders to discuss project progress and address any issues that may arise.

The outputs of the plan scope management process are arguably the most important part of the projects execution. We would provide a completed scope management plan that explains how the project will be developed, monitored, and verified. In addition, a requirements management plan would be important as it outlines the requirements and how it will be managed throughout the project. We will also need to define the stakeholder requirements and preferably a traceability matrix to track the requirements throughout the project lifecycle.

Project Lifecycle

The lifecycle for developing a webpage for a 3D printer company will consist of several stages: initiating, planning, execution, monitoring, and closing (uCertify, 2024). During the

initiation stage, we will determine the project goals, objectives, deliverables, and identify key stakeholders. We will then move onto the planning stage and develop a project plan, a timeline of the project, the resources needed, and risk management strategies.

In the execution stage, we will design the webpage layout and user interface then develop a prototype of the webpage. During this stage, we will work with the customers to integrate their 3D printing catalogs and ensure that the functionality is what they expect.

Throughout the lifecycle, we will continuously monitor the project progress and ensure that it is consistent with the plan.

Once the webpage has been developed, we will need to get approval the the final webpage meets all the requirements and is up to the customers expectations (Cha, J. and Maytorena-Sanchez, E. 2019).

For this project, we can use the Agile methodology. This methodology will be helpful by allowing regular customer feedback and the ability to change the project scope as needed.

Other Considerations

Security will be an important factor when developing a customer webpage. The proper cyber security measures will have to take place and ensure that all data on the webpage is encrypted to ensure secure data transmission. We could also add user logins to authenticate the user and project their data. Furthermore, we would need to implement firewalls, security patches, and perform regular backups to protect servers. We will also need to follow best practices for server configuration and conduct regular audits to help minimize potential threats.

Conclusion

Deploying a new customer-facing webpage for a 3D printer company requires a comprehensive plan scope management process and a well-defined project lifecycle. By leveraging the proper tools and techniques and addressing potential security issues, we will be able to deliver a high quality product.

References

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