SDLC Framework: Hybrid

Why Hybrid: The Hybrid approach is necessary for this project because there are opportunities where the predictive approach would be better suited and areas where the project will need to adopt an adaptive/agile approach in order to produce a functioning prototype.

Predictive Approach: This approach will be used for the first two phases of the SDLC during Analysis and Design. The overall design of the websites and its applications will be predictive. ABC Web Design has been constructing and designing websites for small to midsize companies for 4 years now and although the layout of those websites may differ, the method to go about them will be the same. The Functional requirements that XYZ Company is requesting for their website like the About Page, having the company logo on each page, and having the website display a full list of the company products and services are all generic requirements that have gone into the design of websites ABC company has created in the past. XYZ company has several compliance, non-functional, business requirements that can be assumed that ABC Web Design is familiar with. The compliance with city, state, and federal guidelines for international web operations would be conducive with any company who has sold goods or offered services internationally and the set times for scheduled maintenance, although the time may differ company to company, they all require some form of scheduled system maintenance.

Adaptive/Agile: The flexibility of the agile approach is needed to achieve XYZ Companys' milestones. Since the company is requiring acceptance and approval of each milestone before ABC Web Design can proceed to the next milestone, time would be a major constraint if we used the predictive method for stage gating. The adaptive method also allows for the flexibility of those milestones to be altered with the addition of new ones or subtractions of ones that have already been documented should the XYZ Company see fit to do so. Because time is of the essence and we have a firm 6 months to deliver a fully functional completed project, the adaptive approach is better suited to to deliver a functioning prototype with the requirements that XYZ Company has deemed as top priority for the business as well as the user to make sure that the vision of the website is still the same.

#	SDLC Phase	Integration into SDLC	Yes, No, N/A	Deliverables	Review and Approval	Phase Gate
1	*Requirements Gathering and Analysis*	Did the project team capture the following requirements from XYZ Company: functional and non-functional, business, and user requirements? Does the project team have a thorough understanding of those requirements? Are the requirements obtainable and within the scope of the project? Has the project team successfully identified the end user? Has the project team accurately defined the purpose of the project?		Business Requirements Functional Requirements Non-Functional Requirements Requirements Traceability Matrix Requirements Management Plan Agile Product Backlog	Executive Sponsor <u>or</u> Department Sponsor Project Manager	Gather and finalize XYZ web requirements.
2	*Design*	Did the project team incorporate the user and business requirements to produce a functional website design? Did the project team create the design of the website based on the prioritized requirements given by the stakeholders?		System Standards	Executive Sponsor <u>or</u> Department Sponsor Project Manager	Draft Design
3	*Build*	Did the project team produce a website that is within the desired design and functionality per stakeholder request? Did the project team execute the prioritized requirements to the stakeholders expectations?		System Prototype	Executive Sponsor <u>or</u> Department Sponsor Project Manager	

4	*Testing*	Did the project team achieve the desired quality as required by the stakeholders?		User Test Results	Executive Sponsor or Department Sponsor Project Manager	Web user testing completion
	Design	Has the project team created the design as per all requirements requested by the stakeholders?			Executive Sponsor or Department Sponsor Project Manager	Final web design
5	*Build*	Was the project team successful in the integration of the prototype into the final web design? Does the final web design meet the needs and desires of XYZ Company?		Final System Design and	Executive Sponsor or Department Sponsor Project Manager	Web development completion
6	*Testing*	Has the project team performed all the testing activities (Functional and non functional) to make sure that the system meets the requirements?		User and Training Manuals	Executive Sponsor or Department Sponsor Project Manager	Live beta testing
7	*Delivery*	Has the project team provided training for operations to make sure the website can be maintained? Has the project team successfully deployed the application into the respective environment?		Acceptance Test Results.	Executive Sponsor or Department Sponsor Project Manager	Go live