

The **Quick Design Phase** will involve the presentation of details requirements from **Analysis Phase**, developing the required data model. The result of this stage will be the screen flows and layouts for essential parts of the system. Along with this, the system and unit test plans will be put in place for the designed system.

During this stage it is imperative to identify the core requirements of the entire system and should be targeted for the initial development of the prototype, and secondary requirements should be identified and targeted for future development iterations.

The use of the CASE tool (http://en.wikipedia.org/wiki/Computer-aided_software_engineering) is mandatory in this stage to represent the flow and working of the system.

Construction (Prototyping Cycles)

During this stage, the team will develop the application in iterative cycles of development, testing, requirements refining and development again until the development is completed. The team will convert the data model into a functional database. In this stage, it is vital to deliver each iteration on time, while additional functionality may be scheduled for development after the initial release.

Once the prototype has been developed, the team will test the initial prototype using test scripts from the Quick Design stage. Review will be conducted on the initial prototype that includes design team and customer/client review team. The next iteration requirements determination will be conducted after the review.

Refining requirements happens repeatedly during this stage. Identifying the core and secondary requirements shall be performed for all iterations. The team will update the requirements, data models, test scripts and project plan as during the Design Stage. The iteration plan will be developed and customer will be notified and then the lifecycle will continue.

During the final iterations of development, the design team will update user documentation, perform User Acceptance Testing and define the steps necessary for deployment/implementation.

Testing

During this stage the test focuses on the finished application rather than the prototypes iterations. User Acceptance Testing is performed in this stage by the technical team and the client.

Implementation

This stage will focus on integration the new system into the live system (website hosting). The development team will prepare the transfers and migration to the live system. Troubleshooting, and system integration test will be performed in this stage to ensure the site goes live smoothly.

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