



Technosoft Solutions

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Project Development Process

Project related activities at Technosoft fall into three major phases i.e. the pre-contract phase, post contract phase and the post delivery phase (maintenance).

Pre-contract Phase:

A typical project at Technosoft starts with project scoping. In a nutshell scoping includes understanding business needs, system characteristics, project boundaries and acceptance criteria. This phase, some times, involves developing a detailed system requirement document of the desired system with the help of the customer. After basic system understanding is complete we draw an initial architecture of the system to visualize the eventual product. This initial architecture/model includes high level technology and framework decisions and helps us in proceeding with the next phase, estimation. At Technosoft estimation is done using well respected industry techniques like Function Points Analysis (FPA), Source Lines of Code (SLOC) and Cocomo II. Technosoft has developed elaborate estimation templates that help us perform estimation in a more scientific and repeatable manner. Estimation processes involves size, cost and schedule estimates. FP or SLOC are used for size estimation while Cocomo II is used for transforming this size into effort. Effort is then translated into schedule looking at the resource availability and client needs. At this point, we create a proposal document using Technosoft proposal template.





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Post Contract Phase:

After the contract is signed a team of Business Analysts, Architects, Designers or Managers is formed. Looking at the project nature, quality requirements, usability requirements, technical challenges and other related factors this team will first establish an appropriate development life-cycle for the project. Project life-cycle can be either one of the following or a derivative of it:

1. Sequential Lifecycle Models
 - a. Waterfall Model
 - b. V Model
2. Progressive Lifecycle Models
 - a. Iterative
 - b. Incremental Prototyping
 - c. Spiral

After the selection of life-cycle an elaborate project plan is created and distributed among all stakeholders for review. Plan is finalized after all parties agree on the project timelines. Tasks are decomposed and WBS is created in this phase. Task dependencies are identified and critical path is determined.

Now we are ready to start analysis, design, development and testing activities. Following is the usual sequence of these activities:

1. Analysis
2. Design
3. Development
4. Testing.

Depending on the life-cycle each activity will be planned and executed. For example in the typical waterfall model very elaborate analysis and design phase is completed before development. In progressive development models the analysis and design activity is done to a specific point and rest is left for the next iteration or increment. Technosoft is open to any and all type of development life-cycles models depending upon project needs but we usually use overlapping waterfall model in routine projects where we are familiar with business domain, technology and we want to offer competitive fixed price.



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Post Contract Phase



Typical Overlapping Waterfall Model

In the Analysis phase we use the latest Requirements Engineering techniques to understand functional and non-functional requirements. We prefer having JAD sessions with the client in this phase to create a complete, unambiguous, concise and testable set of requirements. These requirements are then properly managed to track and trace all changes.

In design phase we focus on creating a solution using industry best practices. We extensively use the standard design patterns to solve problems. We focus on latest frameworks and technologies to make the applications compatible to future needs ensuring that it doesn't become obsolete very soon. Application design also caters for ease of maintenance, performance, scalability, security and other important design related attributes. Design is always reviewed to resolve issues at the earliest and not letting design issues ooze to the development phase.

Development team works as per our coding standards to develop very high quality code. Code reviews and spot audits are conducted to ensure that the quality of code is superior. Developers are trained to unit test their code comprehensively ensuring minimum leakage of defect to the testing phase. Wherever required we use Unit Testing Tools or create our own unit testing stubs.

Testing team starts understanding the system during the analysis and design phase. They create their test plans and test cases before the development work gets complete. They log defects in defect tracking tools to generate reports at the end of the project. They are trained on automated testing tools and have used tools successfully for regression testing.

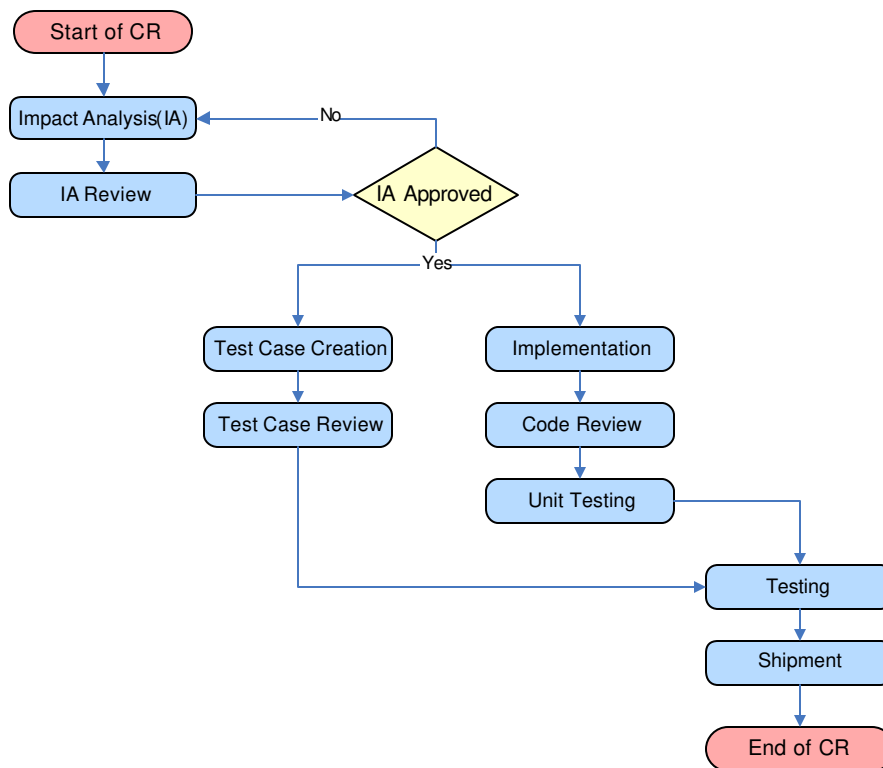


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Post Delivery Phase (Maintenance):

Technosoft provides maintenance services after the launch of the system. We have specialized teams that excel in implementing change request on systems that are already in production. We work in accordance with the Service Level Agreements signed with the client against problems of different severity levels. Technosoft has implemented the process of Impact Analysis and Root Cause Analysis for problem identification and resolutions. We have the ability to maintain different versions of the systems through the use of elaborate SCM processes and tools. We ensure that baselines for different changes are properly identified and changes to code are properly monitored and controlled. Following is the basic flow of a change request.



“It's no longer just about saving money, it's about adding talent, too”
(Randy Walker of IBM says about outsourcing)

Please call us to discuss your software development needs. We guarantee that you will be amazed with the results: Technosoft Solutions Inc. 800-980-0786, info@techno-soft.com

