

***Project Design Process***

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| Approved by | Manmeet Singh |
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Revision history

| Date | Version | Summary of changes | Changes Made by |
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## 

PURPOSE

* Software design is a process of problem solving and planning for a [software](http://en.wikipedia.org/wiki/Software) solution
* To transform the requirements into a model or prototype by identifying the criteria and constraints. This process gives us the road map or a strategic approach to achieve the business needs.

OWNER

* Development team

INPUTS

* Requirements
* UI details or mockups or any design or specification from client
* Tool used for designing if specified

ENTRY CRITERIA

* Final version of requirements

PROCEDURE

* The work instruction is initiated by the Project Manager for designing to a development team member
* The developer or a senior developer analyses the requirements and works out on the possible solution for designing the business needs. Any previous project references are also taken as input.
* Designing includes breaking the high level components to low-level components and [algorithm](http://en.wikipedia.org/wiki/Algorithm) implementation issues as well as the [architectural](http://en.wikipedia.org/wiki/Software_architecture) view.
* The designers should consider the different factors while designing like-fault tolerance, maintainability, reliability, security, reusability, usability and robustness
* The designing tools are used based on the need
* Then a prototype or mockups is constructed
* The developer finalizes the design and matches it to the specifications given, draws and notes the details for the designs
* The designs are then reviewed by the technical expert and approved after the review comments are closed
* The final version of the designs is published by the Project Manager to the customer and the development team and other stakeholder to confirm if they are happy with the
* Any inputs or suggestion from customer or anyone are collated by the Project Manager and he then decides after discussions with customer if required and adds the changes to the designs and published again for development to begin. The additional efforts and other factors are noted.
* The Project Manager is responsible for monitoring and controlling all the activities during this process though the responsibility of designing is with the chosen developer in the team

METRICS/ Measurements

* Review effectiveness

EXIT CRITERIA

* Designs approved by client and Project Manager

OUTPUTS

The following deliverables are outputs of the process:

1. Approved designs
2. Review records

Records Mention the records to be retained for the process (optional)

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| **Required Record** | **Custodian** | **Retention Period** |
| Designs documents | Development Team |  |
| Approval evidence(e mail) | Project Manager |  |
| Review records | Development Team |  |

Training

• Designing tool if any specified for the project

References

* Best Practices in designs
* SVN Procedure

**Templates**

* Design Template

PROCESS FLOW DIAGRAM

