**TEST METRICS**

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| **Software Requirements Review Checklist** | | |
| ***S.No.*** | ***Area of concern*** | ***(Yes/No)*** |
|  | *Are all the requirements traceable?* | *Yes* |
|  | *Is there a prototype available for the user?* | *NO* |
|  | *Are the requirements consistent with the schedule, the resources, and the budget?* | *Yes* |
|  | *Does data model correctly, reflect data objects, their attributes, and relationship?* | *Yes* |
|  | *Is the analysis of the information domain complete and accurate?* | *Yes* |

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| **High-Level Design Review Checklist** | | |
| ***S.No.*** | ***Area of concern*** | ***(Yes/No)*** |
|  | *Does the software architecture reflect the software requirements?* | *Yes* |
|  | *Are all the modules functionally independent?* | *Yes* |
|  | *Are the interface defined for modules and external system elements?* | *Yes* |
|  | *Is the data structure consistent with the information domain?* | *Yes* |
|  | *Is the data structure consistent with the software requirements?* | *Yes* |

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| **Detailed Design Review Checklist** | | |
| ***S.No.*** | ***Area of concern*** | ***(Yes/No)*** |
|  | *Does the algorithm accomplish the desired function?* | *Yes* |
|  | *Is the logic of the algorithm correct?* | *Yes* |
|  | *Does the interface map to the architectural design?* | *Yes* |
|  | *Are the local data structures properly defined?* | *No* |
|  | *Are structured programming constructs used throughout the code?* | *No* |

|  |  |
| --- | --- |
| **Stage Discovered** | **Defect Count** |
| Requirements Review | 0 |
| Design Review | 2 |
| Code Review | 4 |
| Testing | 3 |
| Acceptance Testing | 0 |

*Defects Identified in SDLC*

The total size of the software is 17 FP.

The calculation of the DRE and DD for the project and the management analyze data will be show below.

**DRE (Defect Removal Efficiency)**

The DRE of the software project is calculated as:

DRE = (Total Number of defects found during development (before delivery)) / (Total Number of defects found during development (before delivery) + Total Number of defects found after delivery)

DBD = 0 + 2 + 4 + 3

= 9

DAD = 0 (Acceptance)

DRE = DBD / (DBD + DAD)

= 9 / (9 + 0)

= 9 / 9

= 1

\*DBD = Defects Before Delivery

\*DAD = Defects After Delivery

**DD (Defect Density)**

DD is the defect density in a software project. This provides a normalized view of the software. The formula for DD is:

DD = Number of Known Defects / Size (in Line of Code or Function Point)

N = 0 + 2 + 4 + 3 + 0

= 9

DD = 9 / 37 FP

= 0.24