Defect Predictive Modeling

Proof of Concept (NTT DATA Consulting)

Requirements

September, 2016

Defective Predictive Modeling - POC

The intent of this document is to outline the requirements for the ‘Defect Predictive Modeling’ proof of concept (POC) provided by NTT Data, Inc.

Requirements:

Defect Prediction:
- Predict early in the lifecycle
- Predicted All Defects vs. Actual All Defects
- Predicted Functional Defects vs. Actual Functional Defects
- Defect acceptance rates
- Defect deferral rates (how much) and frequencies (how often)

Test Optimization:
- Identify testing overlaps
- Look to reduce testing efforts across duplicating teams

Test Coverage:
- Identifying most defective application and target test according to problematic areas
- Allocate testing resources effectively (focus on problematic areas vs. regression of all)
- Target test coverage to higher risk applications

Adaptive Planning:
- Adjust test planning based on above analysis
- Centralized reporting to disseminate the above analysis to leadership team