
Software Architecture Review Checklists

Contents

1. INTRODUCTION	1-1
1.1 Scope of Software Architecture Review	1-1
1.2 A Gray Box Approach	1-2
1.3 Benefits	1-2
1.4 Organization and Audience.....	1-3
2. METHODOLOGY OF SOFTWARE ARCHITECTURE REVIEW	2-1
2.1 Stages of Software Architecture Review	2-1
2.1.1 Product-Oriented Software Quality Criteria	2-1
2.1.2 Checklists	2-3
2.1.3 Analysis.....	2-3
2.1.4 Feedback	2-4
2.2 Capability Evolution	2-4
2.3 Fault Management.....	2-6
2.4 Robustness Improvement	2-8
3. CHECKLIST FOR CAPABILITY EVOLUTION.....	3-1
3.1 System Architecture Evoluability	3-1
3.2 Software Manageability	3-4
3.3 Data Independence	3-8
3.4 Interoperability of Releases.....	3-10
4. CHECKLIST FOR FAULT MANAGEMENT	4-1
4.1 Fault Prevention	4-1
4.2 Fault Detection	4-2
4.3 Fault Resolution	4-3
5. CHECKLIST FOR ROBUSTNESS IMPROVEMENT	5-1
5.1 Failure Mode Characterization and Handling	5-1
5.2 Detection of Failures and Overload Conditions.....	5-3
5.3 Recovery from Failures and Overload Conditions.....	5-4
5.4 Containment of Failures and Overload Conditions.....	5-6
5.5 Reporting of Failures and Overload Conditions	5-7
6. ACRONYMS	6-1
References	References-1

List of Figures

Figure 1.	General Scope of Software Architecture Review.....	1-2
Figure 2.	Stages of Software Architecture Review.....	2-1

