

TABLE IV
METRICS EXTRACTED FROM SONARQUBE AND APPLIED AGGREGATION METHODS

Short name	Full name	Type	Sum() aggregation	Max() aggregation	Avg() aggregation
-	Sqale rating (Avg, Max)	Quality	-	x	x
-	Reliability rating (Avg, Max)	Quality	-	x	x
-	Security rating (Avg, Max)	Quality	-	x	x
Reliability RE	Reliability remediation effort	Quality	x	-	-
Security RE	Security remediation effort	Quality	x	-	-
SQ Maintainability RE	Software quality maintainability remediation effort	Quality	x	-	-
SQ Reliability RE	Software quality reliability remediation effort	Quality	x	-	-
SQ Security RE	Software quality security remediation effort	Quality	x	-	-
-	Bugs	Quality	x	-	-
-	Code smells	Quality	x	-	-
-	Violations	Quality	x	-	-
-	Critical violations	Quality	x	-	-
-	Info violations	Quality	x	-	-
-	Major violations	Quality	x	-	-
-	Minor violations	Quality	x	-	-
-	Duplicated blocks	Quality	x	-	-
-	Security hotspots	Quality	x	-	-
-	Effort to reach quality rating A	Quality	x	-	-
-	Cognitive complexity	Complexity	x	-	-