Table 1: Taxonomy of metrics considered for model construction Dimension Metrics Values

Definition (d) – Rationale

and are committed faster.

d: Identify the priority of

and 'Trivial'

2*Categorical

Difficusion	MICUILOS	Varues	Deminion (d) Italionale
12*Change Metrics	2*Log revision count	2*Numeric	d: The number of prior co
			r: This helps to identify if
	2*New file	2*Boolean (0 -1)	d: Check if the log is adde
			r: This helps to identify w
	2*Total revision count	2*Numeric	d: Total number of commi
			value is 0 for logs added in
			r: This helps to find out if
			changes [?].
	2*Code churn in commit	2*Numeric	d: The code churn of the o
			r: Log changes are correlate
	2*Variables declared	2*Numeric	d: The number of variable
			limit to 20 lines before log
			r: When new variables are
			obtain more information [
	2*SLOC	2*Numeric	d: The number of lines of
			r: Large files have more fu
			more log changes [?, ?].
22*Product Metrics	2*Log context	2*Categorical	d: Identify the block in wh
			'exception', 'throw', 'new f
			r: Prior research finds that
			branching, return value ch
	2*Log variable count	2*Numerical	d: Number of variables log
			r: Over 62% of logs add no
			log statement might result
	2*Log density	2*Numerical	d: Ratio of number of log
			r: Research has found that
			code [?]. If it is less it sug
	2*Log level	2*Categorical	d: Identify the log level (v
			'debug', 'trace' and 'trace'
			r: Developers spend signifi
	- 11-		logs [?].
	2*Log text length	2*Numerical	d: Number of text phrases
			pair of quotes as one phras
			r: Over 45% of logs have r
	0#D	0431	phrases might be subject t
	2*Resolution time	2*Numerical	d: The time it takes for th
			since an issue is opened ur
		0437	r: More resolution time mi
	2*Number of developers involved	2*Numeric	d: Total number of unique
			JIRA.
			r: Components with many
	0431 1 6	04NT *	in turn may lead to more
	2*Number of comments	2*Numeric	d: Total number of discuss
	1		r: Number of comments is
	1		More comments may also
	0*D 1	0*N	code churn and log change
	2*Developer experience	2*Numeric	d: The number of commits
			r: Research has shown tha
	0*T	0*0 / 1	complex issues [?] and the
	2*Issue type	2*Categorical	d: Identify the type of issu
			'Sub-Task', 'Test'.
			r: Some issue types might
			and New features might ha

2*Priority type