Developer WorkBench

Appendices

Developer Tools

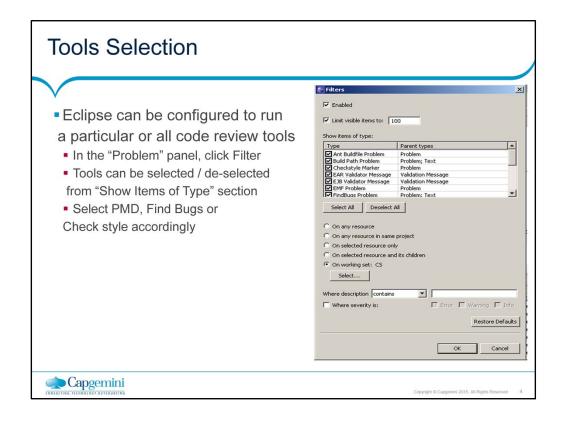
- PMD,Checkstyle and Findbugs are the widely used static code analysis tools in Java development
- PMD: looks for potential problems, possible bugs, unused and sub-optimal code and over-complicated expressions in the Java source code
- Checkstyle: scans source code and looks for coding standards, e.g. Sun Code Conventions, JavaDoc
- Findbug: finds bugs in Java byte code

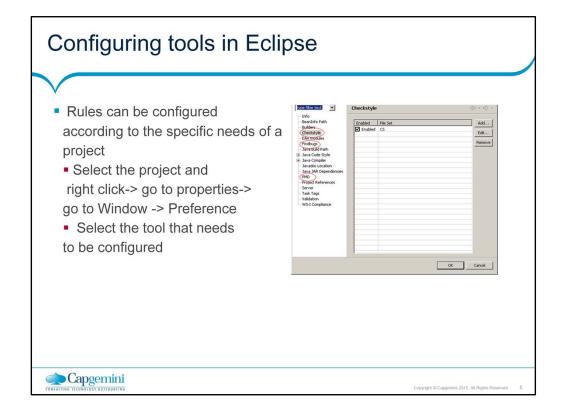


Configuring tools in Eclipse

- Eclipse code review
- Right click project ->Properties -> Java compiler ->Error/Warning
- Check "Enable project specific settings" and select the appropriate severity level
- PMD
 - Pre Configured
- Find Bugs
- Pre Configured
- Check Style
 - Pre Configured







Configuring tools in Eclipse

- How to run Eclipse code review tool?
- As and when code is typed, the rules will be applied on the fly
- How to view the report ?
- Issues generated, will be shown on the screen
- For an error a red color dot will be shown on the LHS of the screen
- For a warning a yellow color dot will be shown on the LHS



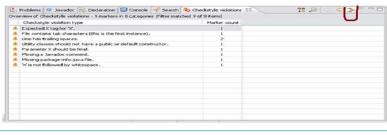
Checkstyle

- Checkstyle tool helps in ensuring that the Java code adheres to a set of coding standards
- Help programmers write Java code that adheres to a coding standard
- Automates the process of checking Java code
- Highly configurable tool
- URL: http://checkstyle.sourceforge.net/



Configuring Checkstyle tool in Eclipse

- Steps to run Check Style code review tool
 - Select the project, right click -> Properties -> Check Style, and click Add
 - Provide a "File set name" and select "Sun Checks" in Check configuration
 - Click OK
- Steps to view the report
 - Click "Filters" icon in the View panel, and Check "Checkstyle Marker" and click OK





Find Bugs

- Find Bugs uses static analysis of the Java bytecode to identify potential software bugs
- It provides early feedback about potential errors in the code
- This helps the developer to access these problems early in the development phase
- URL: http://findbugs.sourceforge.net

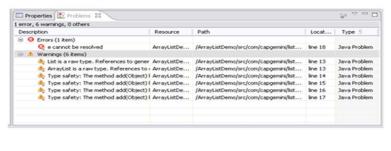


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Appendix B. Code Examples



- Steps to run the FindBugs review tool
 - Select the Project->Right click and select Find Bugs -> Find Bugs
- Steps to view the report
- Go to Window ->Show View -> Problems, and Click OK
- Error report is generated, under "Problem" View





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