

# CSE 464 — Lab Assignment: Git, Maven, and Graphviz

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## 1) Git (60 pts)

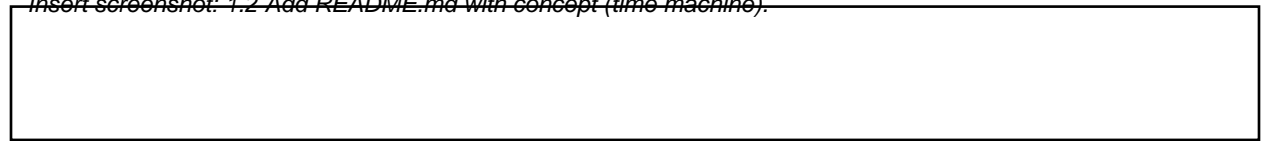
1.1 Create repo time-travel-ygautom.

~~Insert screenshot: 1.1 Create repo time-travel-ygautom.~~



1.2 Add README.md with concept (time machine).

~~Insert screenshot: 1.2 Add README.md with concept (time machine).~~



1.3 Create zine/ folder.

~~Insert screenshot: 1.3 Create zine/ folder.~~



1.4 Add zine/intro.md including phrase 'time machine'.

~~Insert screenshot: 1.4 Add zine/intro.md including phrase 'time machine'.~~



1.5 Add .gitignore and explain patterns in README.

~~Insert screenshot: 1.5 Add .gitignore and explain patterns in README.~~



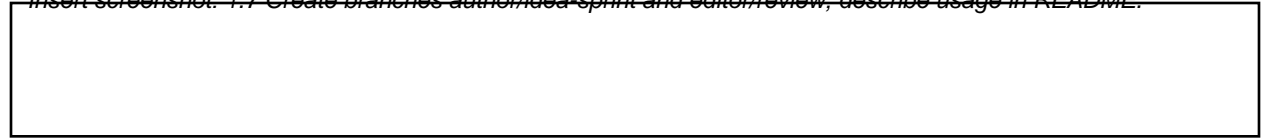
1.6 Add LICENSE (MIT) and CODE\_OF\_CONDUCT.md.

~~Insert screenshot: 1.6 Add LICENSE (MIT) and CODE\_OF\_CONDUCT.md.~~



1.7 Create branches author/idea-sprint and editor/review; describe usage in README.

~~Insert screenshot: 1.7 Create branches author/idea-sprint and editor/review; describe usage in README.~~



1.8 Open issues: Layout, Content, Polish (cleanup).

~~Insert screenshot: 1.8 Open issues: Layout, Content, Polish (cleanup).~~



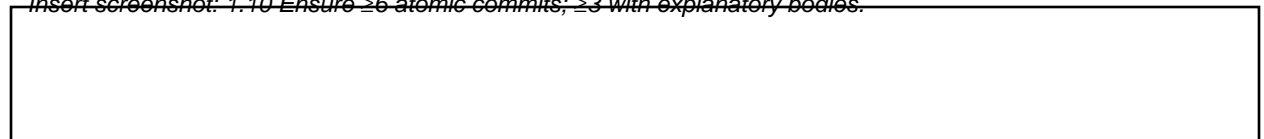
1.9 For each issue, create feat/<topic> branch, commit, PR with closing refs.

~~Insert screenshot: 1.9 For each issue, create feat/<topic> branch, commit, PR with closing refs.~~



1.10 Ensure  $\geq 6$  atomic commits;  $\geq 3$  with explanatory bodies.

~~Insert screenshot: 1.10 Ensure  $\geq 6$  atomic commits;  $\geq 3$  with explanatory bodies.~~



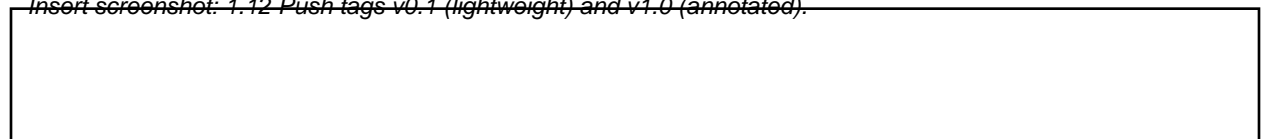
1.11 Create and resolve a merge conflict in zine/intro.md via PR.

~~Insert screenshot: 1.11 Create and resolve a merge conflict in zine/intro.md via PR.~~



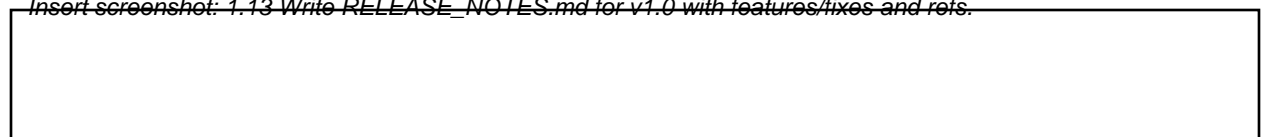
1.12 Push tags v0.1 (lightweight) and v1.0 (annotated).

~~Insert screenshot: 1.12 Push tags v0.1 (lightweight) and v1.0 (annotated).~~



1.13 Write RELEASE\_NOTES.md for v1.0 with features/fixes and refs.

~~Insert screenshot: 1.13 Write RELEASE\_NOTES.md for v1.0 with features/fixes and refs.~~



1.14 Write 20–50 word GIT\_JOURNAL.md with lessons and mistakes.

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## 2) Maven (30 pts)

2.1 Install Maven; run mvn -v (Java 11+).

*Insert screenshot: 2.1 Install Maven; run mvn -v (Java 11+).*

2.2 Generate project via archetype; cd into the folder; show tree.

*Insert screenshot: 2.2 Generate project via archetype; cd into the folder; show tree.*

2.3 Create Stack.java & StackTest.java.

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2.4 Ensure JUnit 4.12 in pom.xml <dependencies>.

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2.5 Run mvn compile; note new files/dirs.

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2.6 Run mvn test; did tests pass?

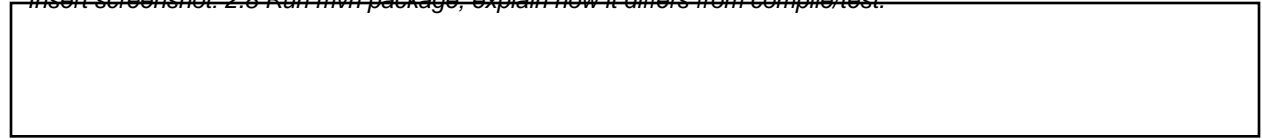
*Insert screenshot: 2.6 Run mvn test; did tests pass?*

2.7 Run mvn clean; what changed?

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2.8 Run mvn package; explain how it differs from compile/test.

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2.9 Edit artifactId/version; run mvn package; show target/ changes.

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2.10 Add an external dependency; show pom.xml snippet.

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### 3) Graphviz (10 pts)

3.1 Install Graphviz; run dot -V and capture output.

~~Insert screenshot: 3.1 dot -V output~~



3.2 Convert test.dot to PNG: dot -Tpng graphviz/test.dot -o graphviz/test.png

~~Insert screenshot: 3.2 PNG result and command~~



## Appendix — Exact Commands

See commands.txt in the submission package for a copy/paste friendly list. Update <your-username> and ASURITE before running.