Rochester Institute of Technology Golisano College of Computing and Information Sciences Department of Information Sciences and Technology

Final Project Specifications 4002-XXX

(These specifications may be changed by the instructor at any time)

Purpose:

You will be required to produce licensed open source software.

Projects must be approved by the instructor.

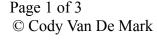
Project may be:

- Desktop application
- Server software
- Software libraries
- Framework
- Service
- Tweaking package
- Game
- Collection of widgets or screenlets
- Library interfacing package
- Command line or graphic utilities
- Front-end to existing library/package
- Port of a non-Linux application
- AndroidTM application (with permission)
- Other type of software (with permission).

Project Guidelines:

- Projects may be done as a group or individually
- Projects may or may not have a GUI
- Projects may leverage existing **open source** code, projects, frameworks, libraries, SDKs or utilities
- Projects may use open source GUI designing/building tools
- Projects may be done in a variety of languages, or even multiple languages
- Projects will only be released if code quality is acceptable
- Project creators may choose the open source license to use
- Project creators may license to more than one license
- Project creators may number version in any way they want as long as it follows the conventions of an RPM or DEB file
- Project creators may choose to use any open source debugging or testing tool.
- Project creators may use any open source IDE
- You may claim your work under the names of you and your group members. You may use this on your resume and continue development.

Final Project Specifications Software Development on Linux Systems





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Project Requirements:

- All projects must be approved by the instructor
- Project **must not** already be available as an open source package, or if it is it **must** be iustified.
- Project must not be too simplistic, irrelevant or cliché even if an open source version does not exist.
- All **group** projects must be licensed to an open source license. It is strongly suggested that individuals working alone license their work to an open source license.
- All projects leveraging (improving, forking, building on top of, etc) open source code must continue using the license of the code used. Projects using other open source software indirectly (IE: MySQL database for storage, Linux as platform or something else that exists on its own) do not need to follow the license of those products.
- If applicable, project **must** use free creator-owned graphics or free existing graphics
- All projects **must** use version control software
- All projects **must** be packaged into an RPM or DEB file
- All projects **must** have a script to run the software **OR** an install script (or both)
- Projects may store data in flats files or use a storage engine.
- If using a storage engine, project **must** use an **existing** open format storage engine (XML, YAML, couchdb, mysql, etc)
- All projects **must** have their own configuration directory (IE: folder to hold configuration files and, if applicable, user preference data). If you do not need this, justify it.
- All projects **must** have proper code documentation and end-user documentation
- All projects **MUST NOT** be malicious
- All projects MUST NOT store sensitive user data (SSN, etc). Additionally, sensitive data MUST NOT be sent across a network.
- All projects MUST NOT obfuscate their code
- All projects **MUST** contain a copy of their corresponding license(s)
- All source code files (.c, .py, .java, etc) MUST contain the corresponding licensing info at the top of the file
- All source code files (.c, .py, .java, etc) MUST be well commented
- All projects MUST give credit and licensing info of leveraged source code, libraries, etc.

Submitting your work:

All work(source code, documents, man pages, diagrams, graphics, etc.) must have your team members names in them, the corresponding licensing info in the top of source code files and a copy of the corresponding license(s). You may choose to name your development team, as well.



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Grading:

- Severe points will be taken off for poor code quality, and the project will not be released
- Points will be lost for missing code documentation, missing end-user documentation, uncommented code, missing licensing information, missing license copies, etc
- Points will be taken off for obfuscating code
- Points will be taken off for not using version control software
- Points will be taken off for not providing an RPM or DEB file
- Points will be taken off for not providing a script to run the software or an install script
- You will fail for using non-free graphics
- You will fail for not giving credit and licensing info of leveraged source code, libraries, etc.
- You will fail for using malicious code
- You will fail for using proprietary code
- You will fail for storing or transmitting sensitive data (SSN, etc)
- Bonus points **may** be awarded if the project works on
 - Linux **AND** Microsoft Windows
 - Linux **AND** Apple OS X
 - Linux AND Android

