

# Assignment 1: Tools

<Joe Lee>

September 9, 2013

# The Team

Ryan Alcoran, Joe Lee, Shivalik Narad, Nam Phan, Swapna Vemparala, Amber Wong

## Team Q 06

# The Team

Ryan Alcoran, Joe Lee, Shivalik Narad, Nam Phan, Swapna Vemparala, Amber Wong

## Team Q 06

- Lee, Joe {Business Manager}

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- Vemparala, Swapna {Project Manager}

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- Vemparala, Swapna {Project Manager}
- Wong, Amber {Risk Manager}

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- Vemparala, Swapna {Project Manager}
- Wong, Amber {Risk Manager}
- Narad, Shivalik {Development Manager}

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- Phan, Nam {Development Manager}

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- Wong, Amber {Risk Manager}
- Narad, Shivalik {Development Manager}
- Phan, Nam {Development Manager}
- Alcoran, Ryan {Test Manager}



# Software Configuration Management (SCM)

Tracking and controlling changes in software

## Language: Java

"Java is an object-oriented programming language developed by Sun Microsystems in the early 1990s. The language is very similar in syntax to C and C++ but it has a simpler object model and fewer low-level facilities."

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## Tools

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## Tools

- Software Configuration Management: **EGit**
- Software Hosting Facility: **Github**
- Standalone Bug Tracker: **Codebeamer**
- Editor and IDE: **Eclipse**
- Project Management: **OpenProject**

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit

"The EGit project is implementing Eclipse tooling on top of a Java implementation of Git."

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit

"The EGit project is implementing Eclipse tooling on top of a Java implementation of Git."

- free, open source, designed for branching and merging
- decentralized model (everyone has own copy of repository, which can later be merged)
- Can be integrated into Eclipse, using a plug-in.

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit compare to Others

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Tracking and controlling changes in software

## EGit compare to Others

Subversion



## EGit compare to Others

### Subversion

- free, open source, actively developed
- easier to use than Git (more tools available for non-technical users, error messages are easier to understand)
- centralized model (everyone has a working copy and changes are submitted to central repository)

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### LibreSource

- free, open source, maintained and new features under development

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit Installation

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit Installation

### Adding a new software site

There are several different ways to add a software site to the list of sites that are used when browsing available software and checking for updates. You must know the Web Site location (URL) of the site that you want to add. To add the site, use one of the following procedures:

- Add a new site using the [Install/Update > Available Software Sites](#) preference page.
  1. Click the **Add...** button.
  2. Type a name into the **Name** text box.
  3. If the software site is located on the web, type the Web Site location (URL) of the site into the **Location** text box. You may also paste or drag and drop a URL from a web browser into this text box.
  4. If the software site is in your local file system (including a CD), click **Local...** to specify the directory location of the site.
  5. If the software site is in your local file system but is packaged as a jar or zip file, click **Archive...** to specify the name of the file.
- Drag and drop the site URL from a browser into one of the following locations:
  1. The **Work With** combo box or the software list on the first page of the **Install New Software** wizard.
  2. The **Available Software Sites** preference page.
  3. The **Location** text field in the **Add Site...** dialog.
- On some platforms, you may be able to drag and drop a local directory or archive file from the file system into the same locations.

#### Related tasks

[Installing new software](#)

[Working with the Available Software sites](#)

Figure : Instruction to install Egit into Eclipse

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit Installation

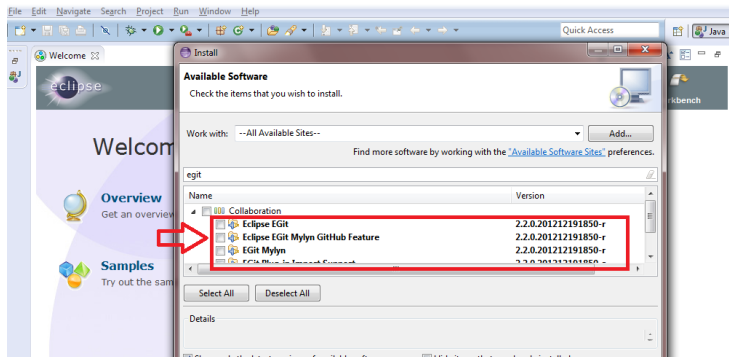


Figure : Instruction to install Egit into Eclipse

# GitHub

# GitHub

”GitHub is a web-based hosting service for software development projects that use the Git revision control system”

- Free for open source, paid for private.



# GitHub

”GitHub is a web-based hosting service for software development projects that use the Git revision control system”

- Free for open source, paid for private.
- Ad-free, not run on all free software.

# Github compare to Others

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Google Code

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## Tigris

# Github compare to Others

## Google Code

- Free. For open-source projects only.
- Ad-free, not run on all free software

## Tigris

- Restricted to collaborative software development tools.
- Not ad-free

# GitHub Installation

## GitHub Installation

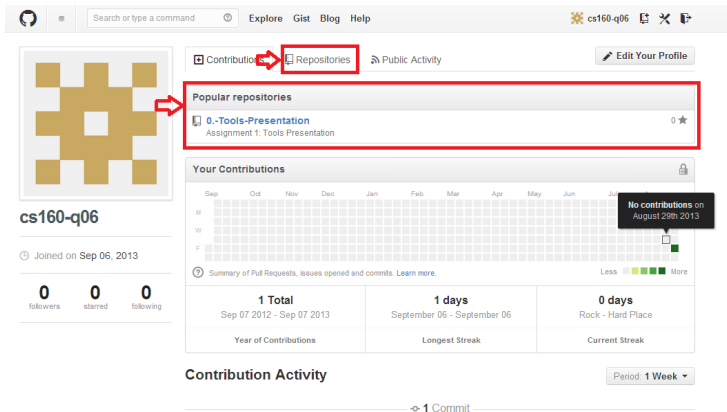


Figure : Github web UI and sample Repository



## GitHub Installation

cs160-q06 / 0.-Tools-Presentation

Assignment 1: Tools Presentation — Edit

5 commits 1 branch 0 releases 1 contributor

branch: master 0.-Tools-Presentation /

Commit	Message	Time
0-tools.pdf	Added NetBeans to IDE section.	12 hours ago
0-tools.tex	Added NetBeans to IDE section.	12 hours ago
README.md	Added texlive installation instructions for RPM-based GNU/Linux systems.	11 hours ago

README.md

### 0.-Tools-Presentation

Assignment 1: Tools Presentation

The LaTeX file uses the beamer documentclass, which is for creating presentations. The PDF file is generated from the LaTeX source file using pdflatex.

SSH clone URL: git@github.com:cs160-q06:0.-Tools-Presentation

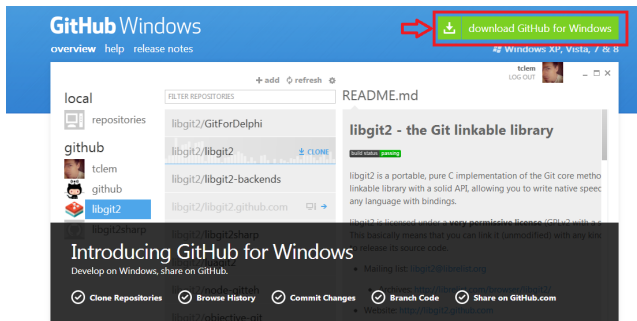
You can clone with HTTPS, SSH, Subversion, and other methods.

Clone in Desktop

Download ZIP

Figure : Inside a repository and how to clone it

# GitHub Installation



The easiest way to use Git on Windows. [Period.](#)

Figure : Github software for Windows

## GitHub Installation

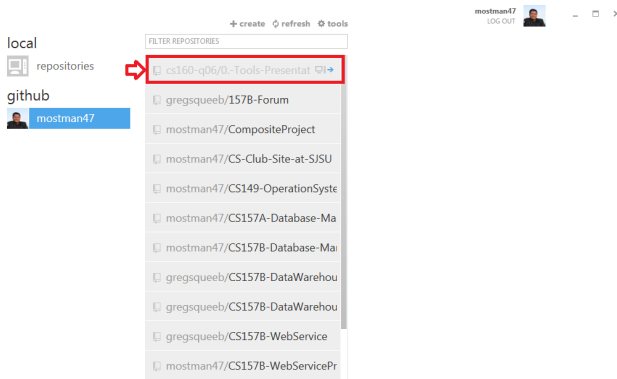


Figure : Github software UI

# GitHub Installation

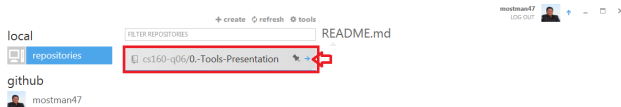


Figure : Manage and Commit Repo

## GitHub Installation

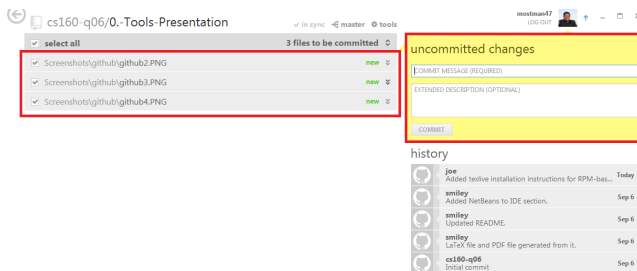


Figure : Manage and Commit Repo

## GitHub Installation

The screenshot displays the GitHub web interface for a repository named 'cs160-q06/0.-Tools-Presentation'. The page shows the current commit, 'screen shots - Github - 1', with a diff view of four PNG files. The diff view indicates that the binary files differ from the previous commit. The commit history is also visible, showing a list of previous commits with their authors and dates.

Repository: cs160-q06/0.-Tools-Presentation

Commit: screen shots - Github - 1

Diff View:

File	Status
Screenshots/github/github2.PNG	new
Screenshots/github/github3.PNG	new
Screenshots/github/github4.PNG	new
Screenshots/github/github5.PNG	new

Commit History:

Author	Commit Message	Date
nam	screen shots - Github - 1	Today
joe	Added tentative installation instructions for RPM-bas...	Today
smiley	Added NetBeans to IDE section.	Sep 6
smiley	Updated README.	Sep 6
smiley	LaTeX file and PDF file generated from it.	Sep 6
cs160-q06	Initial commit	Sep 6

Figure : Result and History of Committing

# CodeBeamer

# CodeBeamer

"CodeBeamer is a web based Collaborative Application Lifecycle Management and Requirements management tool for distributed software development"



# CodeBeamer

"CodeBeamer is a web based Collaborative Application Lifecycle Management and Requirements management tool for distributed software development"

- Proprietary, free version
- Backend: MySQL, Oracle, Apache Derby or Postgres
- CodeBeamer is the award winning Collaborative Requirements Management (RM) and Application Lifecycle Management (ALM) solution for distributed software development

# CodeBeamer compare to Others

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Bugzilla

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## Bugzilla

- MPL (free, open source, developed/maintained by Mozilla Foundation)
- backend: MySQL, Oracle, PostgreSQL, SQLite

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## Google Code Hosting

# CodeBeamer compare to Others

## Bugzilla

- MPL (free, open source, developed/maintained by Mozilla Foundation)
- backend: MySQL, Oracle, PostgreSQL, SQLite

## Google Code Hosting

- Proprietary, hosted; available for open source projects (by Google Code)
- BigTable backend (also proprietary)

# CodeBeamer Installation

# CodeBeamer Installation

The screenshot shows the CodeBeamer website interface. At the top, the URL is <https://codebeamer.com/cb/user>. The page header includes the CodeBeamer logo, the text "codeBeamer ALM", and a "Log" button. Below the header, there's a navigation bar with "Login" and "Projects" links. A banner for "anonymous's Personal Wiki" is visible. A yellow warning box contains the text: "Hi! How are you? Login, and download the fully functional version of codeBeamer from this directory. Test drive it within your own infrastructure. NEWS! We also recommend installing codeBeamer Eclipse Studio to take your code, issues, work offline, and MercurialEclipse to bring the power of Distributed Version Control to Eclipse. Both are the open source." Below this, there's a "Tags to filter" section with a "Welcome to CodeBeamer" tag. A video player is embedded, showing a thumbnail with a red play button. Below the video, the text "Interesting, I want to know more!" is followed by "These are probably the best starting points for learning:". A list of links is provided: "Inland web site" (information on the company), "Inland blog" (colorful posts), and "Download codeBeamer" (highlighted with a red box and an arrow). The text "you can download the product for free. This is not a trial, there is no expiration date." follows the link.

codeBeamer

codeBeamer ALM

Log

Login Projects

anonymous's Personal Wiki #13549  
Version 32 (Jan 08 10:53 by daudat) | No comments

Hi! How are you?  
Login, and download the fully functional version of codeBeamer from this directory. Test drive it within your own infrastructure.  
NEWS! We also recommend installing codeBeamer Eclipse Studio to take your code, issues, work offline, and MercurialEclipse to bring the power of Distributed Version Control to Eclipse. Both are the open source.

Tags to filter

Welcome to CodeBeamer

Interesting, I want to know more!

These are probably the best starting points for learning:

- Inland web site - information on the company behind codeBeamer, with customer stories, news, buying and licensing and such.
- Inland blog - colorful posts from the collaboration space. Tutorials, user stories, announcements
- Download codeBeamer - you can download the product for free. This is not a trial, there is no expiration date.

Figure : Download



# CodeBeamer Installation

**INTLAND SOFTWARE** PRODUCTS SOLUTIONS CUSTOMERS SUPPORT NEWS & BLOG COMPANY

Download Center

Submit your information to get started

You'll be redirected to download codeBeamer.

First name \* Last name \* Phone \*

Email \* Company name \* Country

Estimated users

[Submit](#)

**Online Trial**  
If you prefer trying out codeBeamer quickly and easily without having to install anything on your PC, then using the live instance is the better option for you.

[Try online version](#)

Figure : Download

# CodeBeamer Installation

### Download codeBeamer

#### International 7.1.2 for Linux

This version is shipped with Derby database. SVN, Git, hg (Mercurial) and CVS Scm system are supported.

[Installation](#) | [Release notes](#) | [Requirements](#) | [Upgrade](#)

[Download](#)

#### International 7.1.2 for Windows (32 bit)

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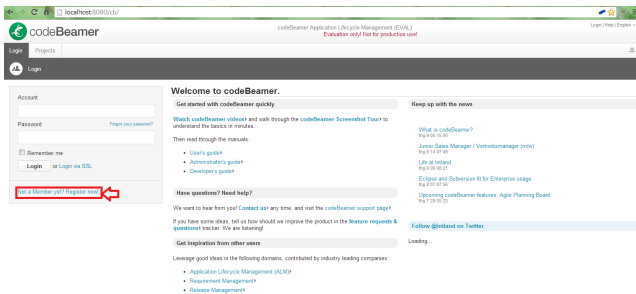


Figure : Web UI in localhost

Figure : Register User

A set of small navigation icons typically found in Beamer presentations, including symbols for back, forward, search, and other slide controls.

## Standalone bug trackers

# CodeBeamer Installation

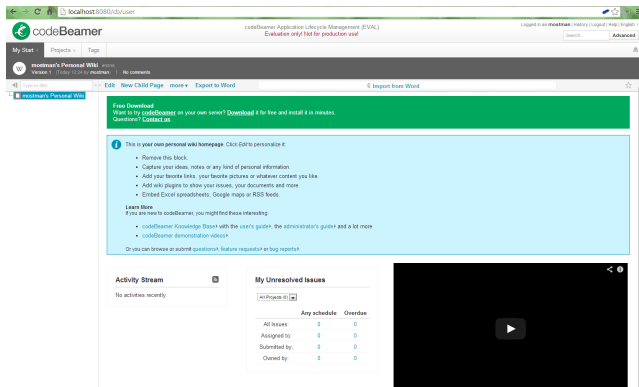


Figure : User's Management UI

# Editors and IDEs

Netbeans, Eclipse, GNU Emacs

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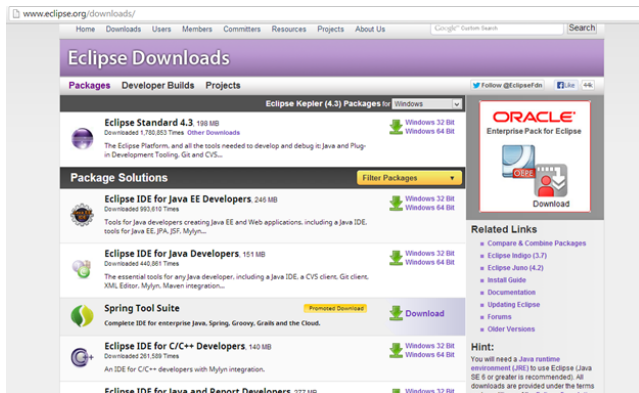
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# Eclipse Installation

# Editors and IDEs

<http://www.eclipse.org/downloads/>

## Eclipse Installation



The screenshot shows the Eclipse Downloads website. The main navigation bar includes links for Home, Downloads, Users, Members, Committers, Resources, Projects, and About Us. A search bar is located on the right. The page title is "Eclipse Downloads". Below the title, there are tabs for Packages, Developer Builds, and Projects. The "Packages" tab is selected, showing a list of Eclipse packages. The first package is "Eclipse Standard 4.3" (198 MB), which has been downloaded 1,780,853 times. It is available for Windows 32 Bit and Windows 64 Bit. The second package is "Eclipse IDE for Java EE Developers" (246 MB), which has been downloaded 993,610 times. It is also available for Windows 32 Bit and Windows 64 Bit. The third package is "Eclipse IDE for Java Developers" (151 MB), which has been downloaded 440,061 times. It is available for Windows 32 Bit and Windows 64 Bit. The fourth package is "Spring Tool Suite", which is a complete IDE for enterprise Java, Spring, Groovy, Grails, and the Cloud. It is available for download. The fifth package is "Eclipse IDE for C/C++ Developers" (140 MB), which has been downloaded 281,589 times. It is available for Windows 32 Bit and Windows 64 Bit. The sixth package is "Eclipse IDE for Java and Report Developers" (277 MB), which is available for Windows 32 Bit. On the right side of the page, there is an Oracle Enterprise Pack for Eclipse download button. Below this, there are related links such as "Compare & Combine Packages", "Eclipse Indigo (3.7)", "Eclipse Juno (4.2)", "Install Guide", "Documentation", "Updating Eclipse", "Forums", and "Older Versions". A hint section at the bottom right states: "Hint: You will need a Java runtime environment (JRE) to use Eclipse (Java SE 6 or greater is recommended). All downloads are provided under the terms of the Eclipse Foundation License."

Figure : Download

# Eclipse Installation

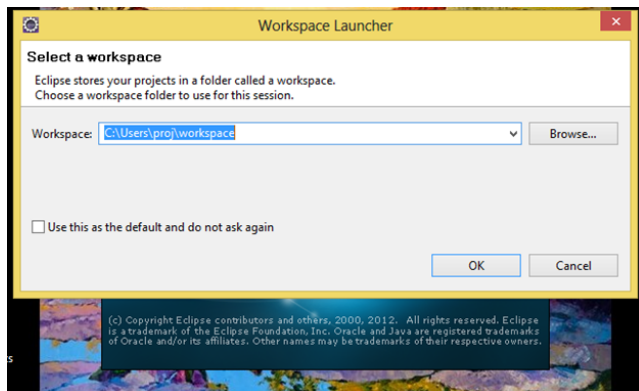


Figure : Workspace

# Eclipse Installation

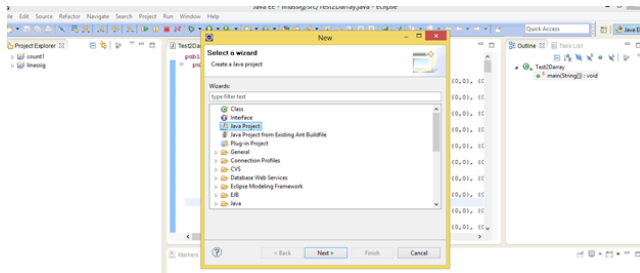


Figure : Create new project

# Eclipse Installation

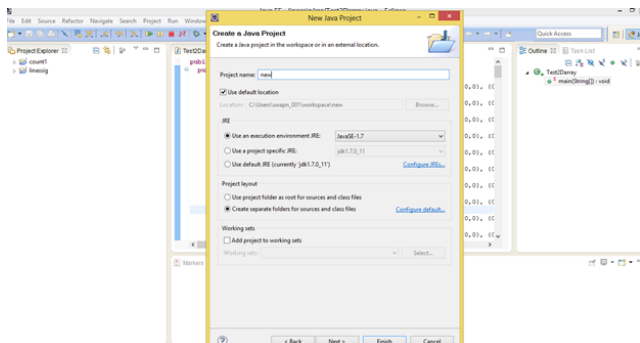


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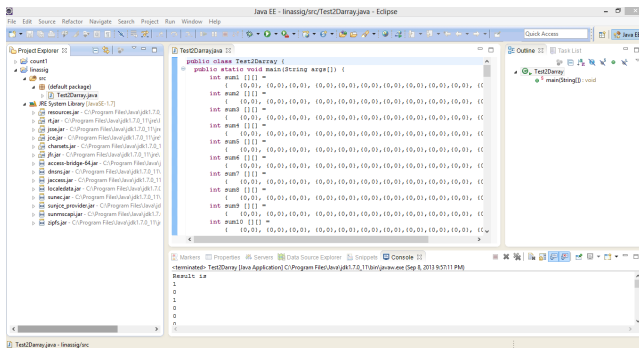


Figure : Running Program



# Eclipse Installation

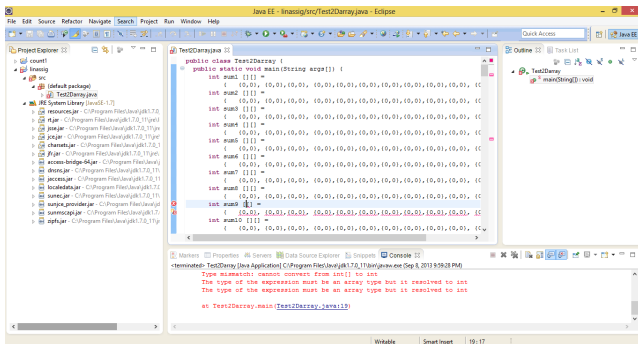


Figure : Error Logs

# OpenProj

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”OpenProj is an open source project management software application. It intends to be a complete desktop replacement for Microsoft Project. It runs on the Java platform, allowing it to run on a variety of different operating systems”

- License: Free, open source project management application that supports project timelines, issue tracking, wiki, document management, time and cost reporting, code management, Scrum, and more.
- Earned Value costing
- Gantt chart
- Resource Breakdown Structure (RBS) chart

# OpenProj vs. Microsoft Project

# OpenProj vs. Microsoft Project

## Similar

- user interface and approach to construction of project plan
- create workbench breakdown structure
- assign resources

# OpenProj vs. Microsoft Project

## Similar

- user interface and approach to construction of project plan
- create workbench breakdown structure
- assign resources

## Different

- OpenProj can link upwards with methods (inserting tasks is more difficult than with Microsoft Project)
- OpenProj can just create resources (have to do so in the resource sheet)
- OpenProj lacks a more detailed view and project reports that is available with Microsoft Project

# OpenProj Installation



## OpenProj Installation

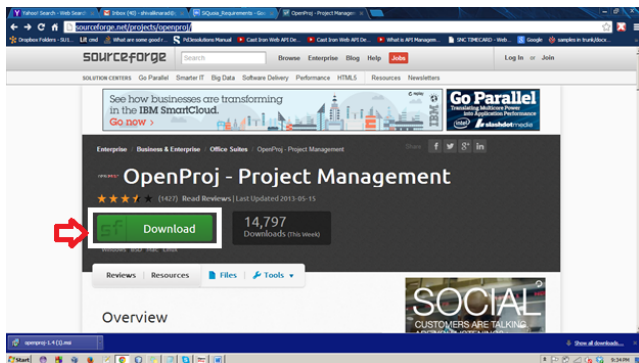


Figure : Download

# OpenProj Installation

- Step 1 Double click and open the downloaded file. A dialog box will appear.
- Step 2 Hit run button on the dialog box.
- Step 3 Choose the directory where you want to install. And click next.
- Step 4 click install
- Step 5 click Finish. And your installation will be complete.

# OpenProj Installation

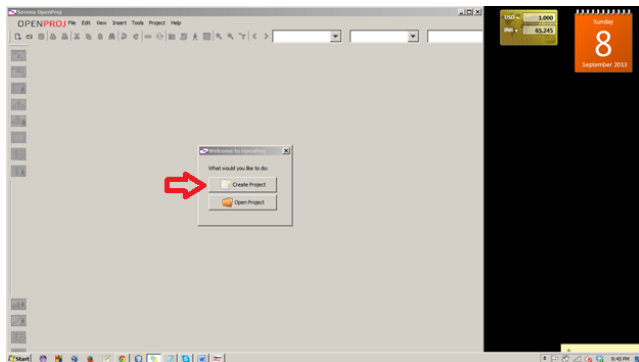


Figure : OpenProj's UI

# OpenProj Installation

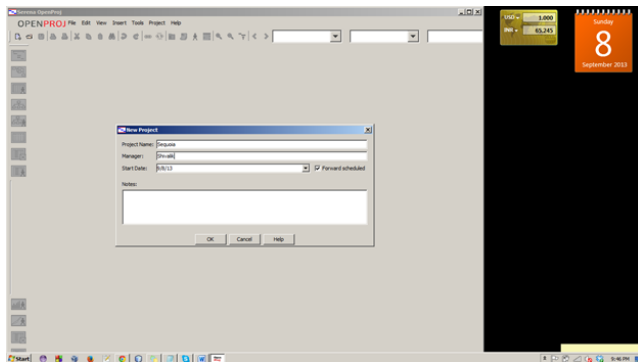


Figure : Create new Project

## OpenProj Installation

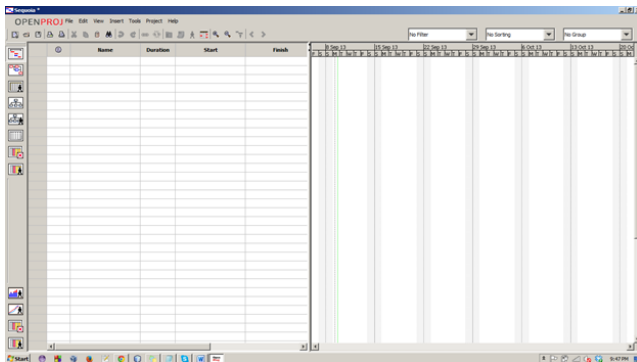


Figure : A project with empty sheet

## OpenProj Installation

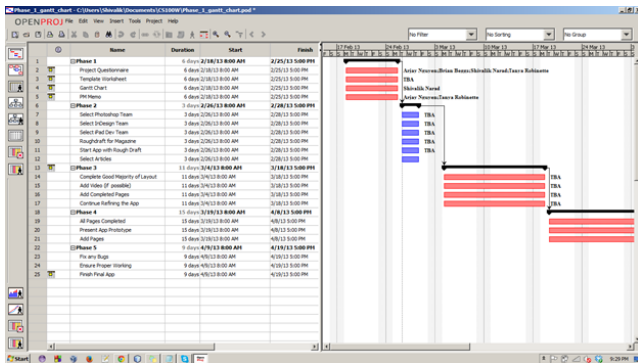


Figure : A project with details and timeline

# References

- [http://en.wikipedia.org/wiki/Comparison\\_of\\_revision\\_control\\_software](http://en.wikipedia.org/wiki/Comparison_of_revision_control_software)
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- [http://en.wikipedia.org/wiki/OpenProj#Comparison\\_to\\_Microsoft\\_Project](http://en.wikipedia.org/wiki/OpenProj#Comparison_to_Microsoft_Project)
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- [http://www.programmers.kz/programming/java/articles\\_java/14715-some-background-information-on-java-and-object-oriented.html](http://www.programmers.kz/programming/java/articles_java/14715-some-background-information-on-java-and-object-oriented.html)

Team Q 06  
Thank you!