

# 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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- Alcoran, Ryan - Test Manager



# Java

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Object-oriented,

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Object-oriented, similar in syntax to C and C++,

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# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit



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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 vs Others

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Tracking and controlling changes in software

## EGit vs Others

Subversion

# Software Configuration Management (SCM)

Tracking and controlling changes in software

## EGit vs 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

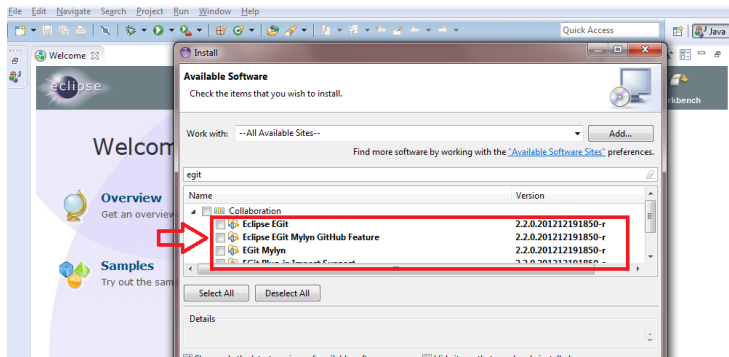


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# GitHub

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GitHub is a git hosting service.

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# Github vs Others

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Google Code

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## Tigris

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- What is “open source”?

## Tigris

- Restricted to collaborative software development tools.



## Using Git on GitHub's servers

Screenshots/github/0login.png

Screenshots/github/1create.png

Screenshots/github/2clone.png

Screenshots/github/3edit.png

Screenshots/github/4add.png

Screenshots/github/5commit.png

Screenshots/github/6comment.png



Screenshots/github/7push.png

# Git client installation

## Software hosting facilities

# Git client installation

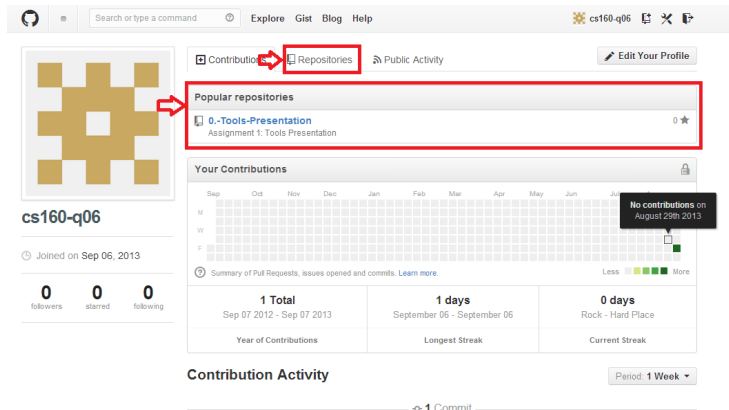


Figure : GitHub web UI and sample Repository

# GitHub client installation

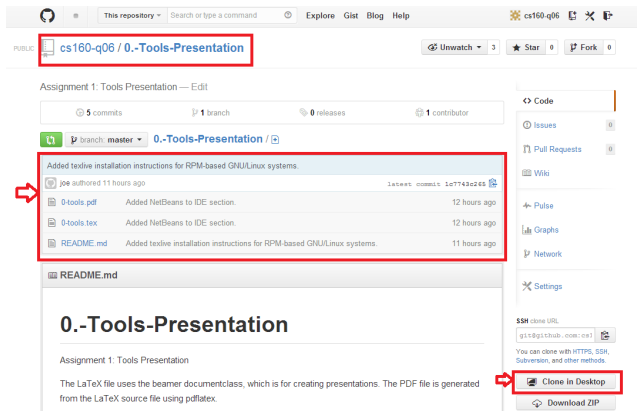
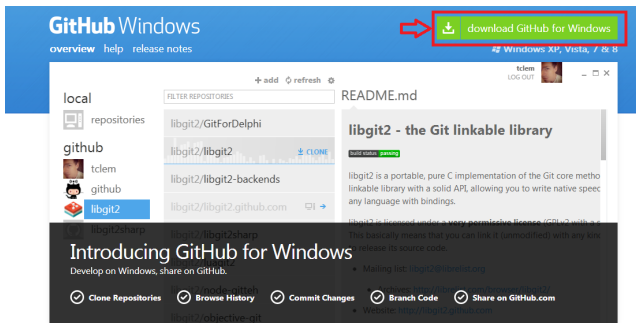


Figure : Inside a repository and how to clone it

## Software hosting facilities

# GitHub client installation



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

Figure : Github software for Windows

## Software hosting facilities

# GitHub client installation

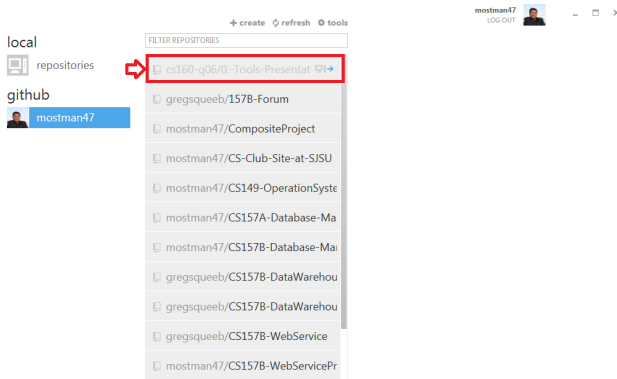


Figure : Github software UI

# GitHub client installation

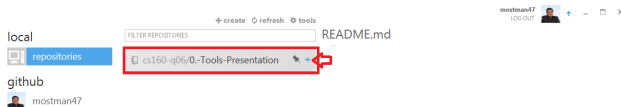


Figure : Manage and Commit Repo

## Software hosting facilities

# GitHub client installation



Figure : Manage and Commit Repo



## Software hosting facilities

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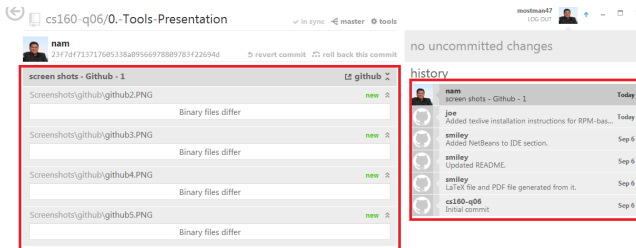


Figure : Result and History of Committing

# CodeBeamer

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

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

- Nonfree
- Backend: MariaDB (a.k.a. MySQL), Oracle, Apache Derby or PostgreSQL
- CodeBeamer is a collaborative Requirements Management (RM) and Application Lifecycle Management (ALM) solution for distributed software development.

# CodeBeamer vs Others

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Bugzilla

# CodeBeamer vs Others

## Bugzilla

- Licensed under the Mozilla Public License (a GNU GPL-compatible license, which means it is free software, so you have the freedom to run your own copy on your own server), developed/maintained by Mozilla Foundation.
- backend: MariaDB, Oracle, PostgreSQL, SQLite

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## Google Code Hosting



# CodeBeamer vs Others

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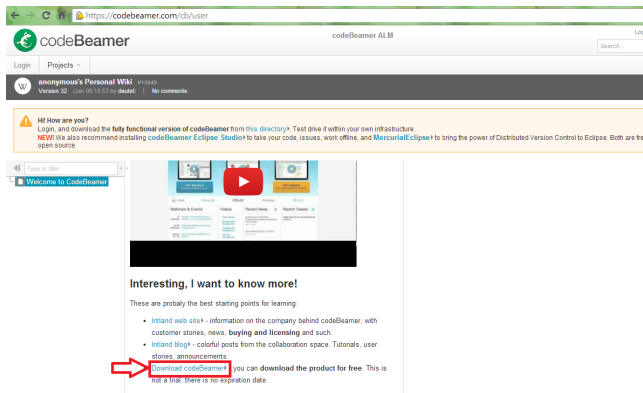
## Google Code Hosting

- Not distributed as software that you can run on your own computer (hosted only); available for “open source” projects (by Google Code)
- BigTable backend (also proprietary)

# CodeBeamer Installation

## Standalone bug trackers

# CodeBeamer Installation



The screenshot shows the CodeBeamer website interface. At the top, the URL is <https://codebeamer.com/cb/user>. The page features a navigation bar with 'codeBeamer' and 'codeBeamer ALM' labels, a search bar, and a 'Log' button. Below the navigation bar, there's a section for 'anonymous's Personal Wiki' with version 32 and 1453 by daude. A yellow banner with a warning icon contains the text: 'Hit How are you? Login, and download the fully functional version of codeBeamer from this directory. Test drive it within your own infrastructure. NEW! 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 the banner, there's a 'Welcome to CodeBeamer' section with a video player showing a YouTube video. Under the video, the text 'Interesting, I want to know more!' is followed by a list of links: 'Inland web site', 'Inland blog', and 'Download codeBeamer'. A red arrow points to the 'Download codeBeamer' link, which is highlighted with a red box. The text below the link states: 'you can download the product for free. This is not a trial, there is no expiration date.'

Figure : Download

# CodeBeamer Installation

The screenshot shows the CodeBeamer Download Center page. At the top, the Intland Software logo is on the left, and navigation links for PRODUCTS, SOLUTIONS, CUSTOMERS, SUPPORT, NEWS & BLOG, and COMPANY are on the right. A search bar is also present. Below the navigation bar, the 'Download Center' title is displayed. To the right of the title are two overlapping images of the CodeBeamer software interface. On the far right, a vertical sidebar contains links for Chat, Download, and Contact. The main content area features a form titled 'Submit your information to get started' with the subtext 'You'll be redirected to download codeBeamer.' The form includes input fields for First name, Last name, Phone, Email, Company name, and Country, along with a dropdown for Estimated users. A red arrow points to the 'Submit' button at the bottom of the form. To the right of the form, an 'Online Trial' section describes the benefits of the live instance and includes a red arrow pointing to the 'Try online version' button.

**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](#)

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## Standalone bug trackers

# CodeBeamer Installation

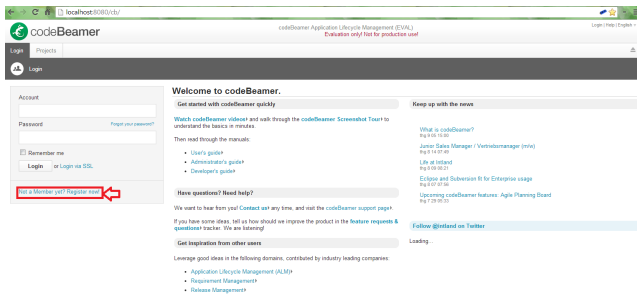
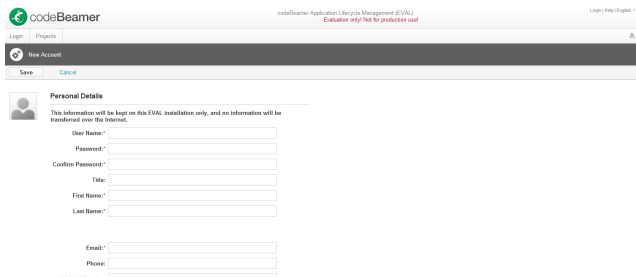


Figure : Web UI in localhost

# CodeBeamer Installation



The screenshot shows the CodeBeamer web interface for creating a new account. The header includes the CodeBeamer logo, navigation links for 'Login' and 'Projects', and a status bar indicating 'codeBeamer Application Lifecycle Management (EVAL)' with a note 'Evaluation only! Not for production use!'. A 'New Account' button is visible in the top navigation bar. The main form is titled 'Personal Details' and includes a disclaimer: 'This information will be kept on this EVAL installation only, and no information will be transferred over the Internet.' The form contains several input fields: 'User Name:', 'Password:', 'Confirm Password:', 'Title:', 'First Name:', 'Last Name:', 'Email:', and 'Phone:'. At the bottom of the form, there are 'Save' and 'Cancel' buttons.

Figure : Register User

## Standalone bug trackers

# CodeBeamer Installation

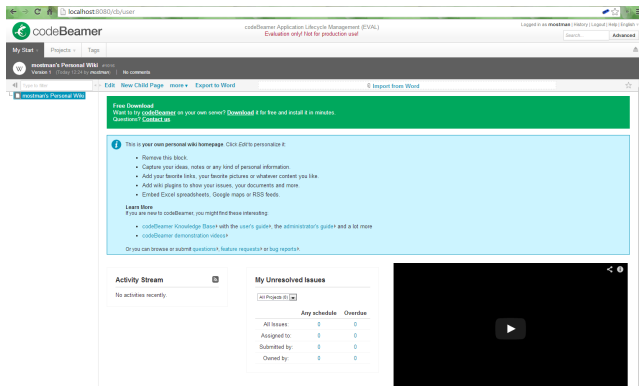


Figure : User's Management UI



# Editors and IDEs

Netbeans, Eclipse, GNU Emacs

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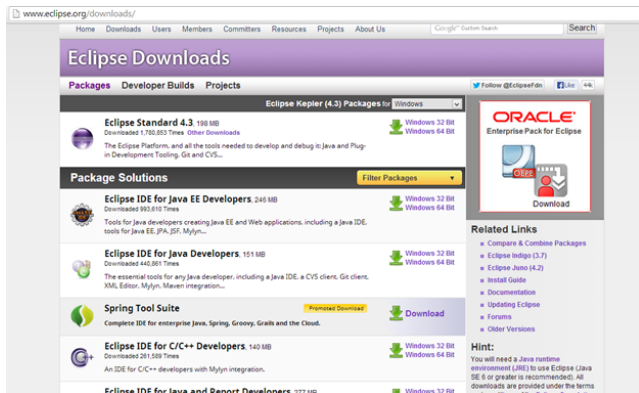
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# Eclipse Installation

# Editors and IDEs

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

# Eclipse Installation



The screenshot shows the Eclipse Downloads page on the website [www.eclipse.org/downloads/](http://www.eclipse.org/downloads/). The page has a purple header with the title "Eclipse Downloads" and navigation links for "Packages", "Developer Builds", and "Projects". Below the header, there's a section for "Eclipse Kepler (4.3) Packages for Windows" with a dropdown menu. The main content area lists several package solutions with icons, descriptions, and download links. On the right side, there's an "ORACLE Enterprise Pack for Eclipse" advertisement and a "Related Links" section with links to compare packages, indigo, juno, install guides, documentation, updates, forums, and older versions. A "Hint" section at the bottom right provides information about the Java runtime environment (JRE) required for Eclipse.

**Eclipse Downloads**

**Package Solutions**

- Eclipse Standard 4.3** 199 MB  
Downloaded 1,795,853 Times [Other Downloads](#)  
The Eclipse Platform, and all the tools needed to develop and debug in Java and Plug-in Development Tooling, Git and CVS...
- Eclipse IDE for Java EE Developers** 245 MB  
Downloaded 993,610 Times  
Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn...
- Eclipse IDE for Java Developers** 151 MB  
Downloaded 440,861 Times  
The essential tools for any Java developer, including a Java IDE, a CVS client, Git client, XML Editor, Mylyn, Maven integration...
- Spring Tool Suite**  
Complete IDE for enterprise Java, Spring, Groovy, Grails and the Cloud.
- Eclipse IDE for C/C++ Developers** 140 MB  
Downloaded 261,589 Times  
An IDE for C/C++ developers with Mylyn integration.
- Eclipse IDE for Java and Reoort Developers** 277 MB

**Related Links**

- Compare & Combine Packages
- Eclipse Indigo (3.7)
- Eclipse Juno (4.2)
- Install Guide
- Documentation
- Updating Eclipse
- Forums
- Older Versions

**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 and conditions of the Eclipse Foundation.

Figure : Download

# Eclipse Installation

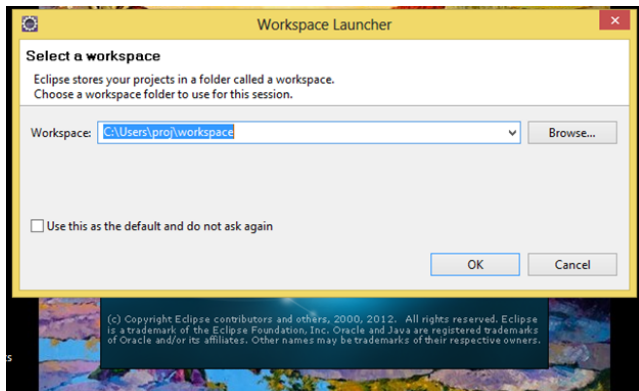


Figure : Workspace



# Eclipse Installation

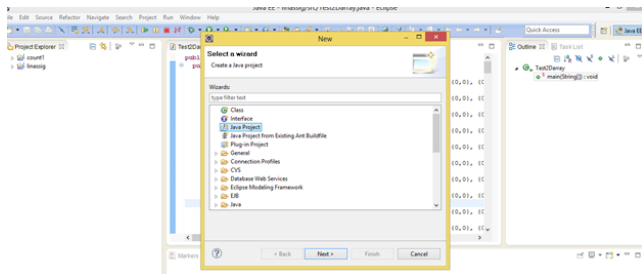


Figure : Create new project

# Eclipse Installation

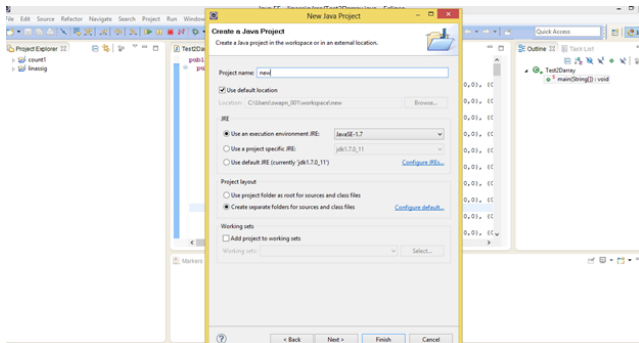


Figure : Create new project

# Eclipse Installation

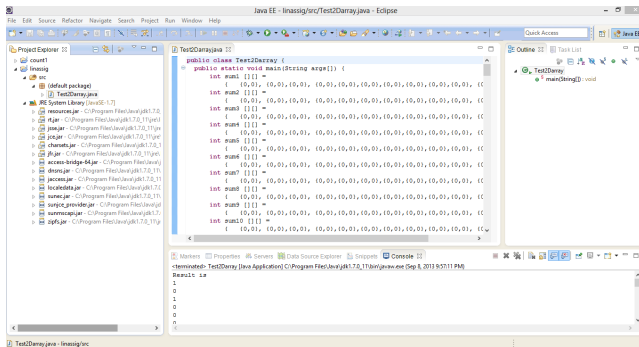


Figure : Running Program

# Eclipse Installation

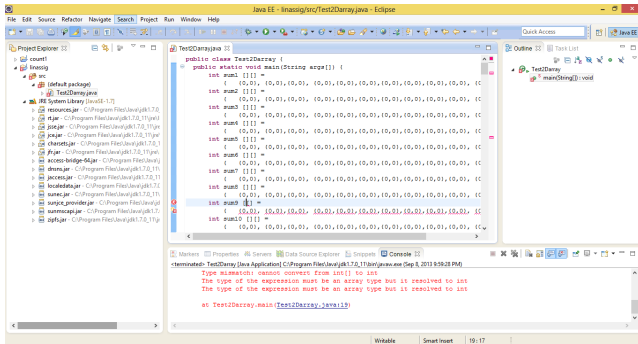


Figure : Error Logs

# OpenProj

# OpenProj

“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”

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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

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

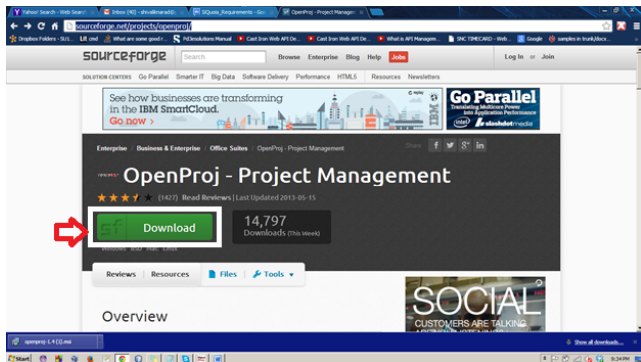


Figure : Download

# 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

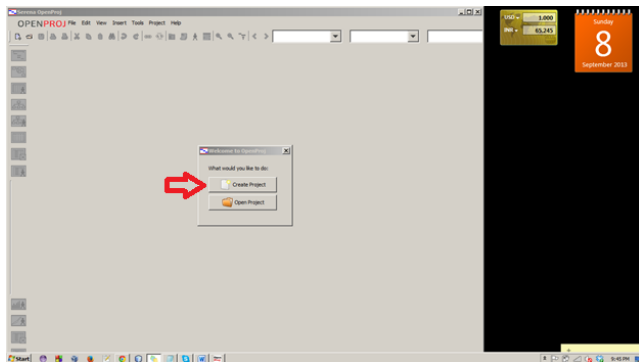


Figure : OpenProj's UI

# OpenProj Installation

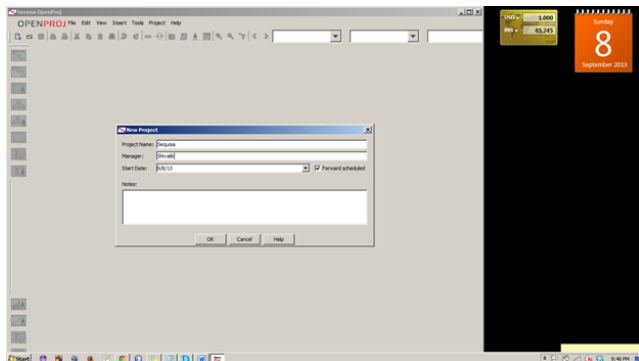


Figure : Create new Project

# OpenProj Installation

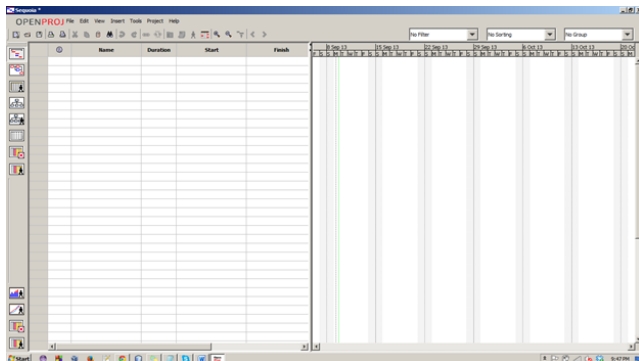


Figure : A project with empty sheet



# Project Management Tools

## OpenProj Installation

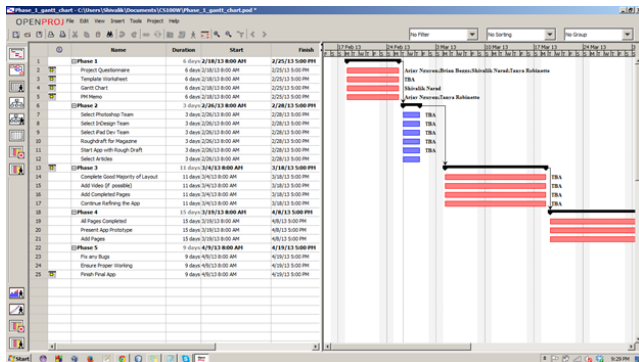


Figure : A project with details and timeline

# References

- [1] [http://en.wikipedia.org/wiki/Comparison\\_of\\_revision\\_control\\_software](http://en.wikipedia.org/wiki/Comparison_of_revision_control_software)
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Team Q 06  
thanks you...