

Software Engineering Tools Lab

Assignment no. 1

Date: 08-02-2023

PRN: 2020BTECS00002

Name: Subham Kumar

Q.1. Differentiate between free software, open source and proprietary software w.r.t. its properties.

Ans:

Free software	Open Source software	Proprietary software
“Free software” means software that respects users’ freedom and community.	Open-source software is computer software whose source code is available openly on the internet and programmers can modify it to add new features and capabilities without any cost.	Proprietary software is computer software where the source codes are publicly not available only the company which has created can modify it.
In free software the source code is public.	In open-source software the source code is public.	In proprietary software, the source code is protected.
Free Software can be shared and used by everyone in a non-exclusive way, serving the public good.	Open-source software can be installed on any computer.	Proprietary software can not be installed into any computer without a valid license.

A Free Software license allows you to run an unlimited number of installations, without paying extra.	Users do not need to have any authenticated license to use this software.	Users need to have a valid and authenticated license to use this software.
Free software is managed by free software foundation.	Open-source software is managed by an open-source community of developers.	Proprietary software is managed by a closed team of individuals or groups that developed it.
Free Software resists monopolization and improves competition.	It is more flexible and provides more freedom which encourages innovation.	It is not much flexible so there is a very limited innovation scope with the restrictions.
Free Software licenses reinforce independence from vendors and provide more choice in service providers.	Users can get open software free of charge.	Users may have to pay to get the proprietary software.
A Free Software license encourages innovation for your software.	In open-source software faster fixes of bugs and better security are availed due to the community.	In proprietary software, the vendor is completely responsible for fixing malfunctions.
Examples: Google chrome, Mozilla Firefox, Audacity,etc.	Examples: Android, Linux, Firefox, Open Office, GIMP, VLC Media player, etc.	Examples: Windows, macOS, Internet Explorer, Google Earth, Microsoft Office, Adobe Flash Player, Skype, etc.

Q.2. Enlist some examples along with its purpose and properties (atleast 10) of FOSS & proprietary software w.r.t. database.

Ans:

FOSS database s/w: MySQL

- Purpose: For web use.
- Properties:
 1. It is a relational database management system (RDBMS).
 2. It is easy to use.
 3. It is secure.
 4. It follows client-server architecture.
 5. It is free to download.
 6. It supports multi-threading (scalable).
 7. Compatible with many OS.
 8. It allows rollback.
 9. It is platform independent.
 10. It has GUI support.

Proprietary database s/w: Oracle DB

- Purpose: Running Online Transaction Processing (OLTP) & Data Warehousing (DW).
- Properties:
 1. It has Real Application Clustering and Portability.
 2. Its data is available during the time of planned or unplanned downtimes and failures.
 3. Its layout has complete recovery features to recover data from almost all kinds of failures.
 4. It provides mechanisms to control data access and usage.
 5. Its database supports managing multiple database instances on a single server.
 6. It supports PL/SQL extension for procedural programming.
 7. It is compatible with the standards of industries.
 8. It allows users to replicate groups of tables and their supporting objects to multiple sites.

9. It has high transaction processing performance.
10. It allows processing to be split into client and server application programs.

Q.3. Enlist some examples of free open source exam software for online assessment.

Ans:

1. [TCEExam](#)
2. [VirtualX](#)
3. [Moodle](#)
4. [TAO](#)
5. [Kaldin](#)
6. [Papershala](#)
7. [Edbase](#)
8. [Mettl](#)

Q.4. Demonstrate any one exam software which is open source and freely available.

Ans: Moodle

Walchand College Of Engineering, Sangli. English (en) SY CSE 2021-22 2020BTECS00002 Mr. SHUBHAM KUMAR

My courses

- ADMINISTRATION
 - Site administration
- PRIVATE FILES
 - No files available
 - Manage private files...
- CLOCK
 - Server: 9:31pm
 - You: 9:32pm

Minor in Engineering (Notice, Regulations, Application form and Structure Oct 2022)

- Student Notice and Allotment for TY B.Tech Minor in Engineering 2022-23
- Minor in Engineering Regulations 2022
- Curriculum Structure for Minor in Engineering 2022

Examination related documents/ Notices

- Notice of Updated Dates for FY B.Tech and MTech Academics and Examinations 14 Dec 2022

Academics related information for AY 2022-23

- TY_EVEN SEM_OE3_UPDATED STUDENT LIST
- TY_EVEN SEM_OE4_UPDATED STUDENT LIST
- Notice TY All Branches Open Elective Even semester AY 22-23
- Link: TY All Branches Open Elective Even semester AY 22-23
- Notice_Re-registration AY 22-23_Even Semester.
- Academic Calendar Even Sem. January to July 2023
- Credit System AY 2022-23

MAIN MENU

- Site news

UPCOMING EVENTS

- Assignment No. 1 a) Demo of Project Management Cloud based Software PE4 Software Engineering Tools Lab Batch-T5 Sem - II 2022-23 Dr. M.A. Shah Tomorrow, 12:55 PM
- Go to calendar...
- New event...

CALENDAR

February 2023

Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

Assignment 1.B

- Name of s/w: Project Manager

- Features:

1. Board (All plans)

The [kanban board](#) appeals to the visual workers on your team, as it helps them visualize their workflows. We've recently rolled out a new [custom workflows and task approvals](#) feature where users can build workflows and set limitations on who can move tasks to certain statuses. Only those with the approved permissions can set task rules and approvers to keep workflows productive.

In the board view, drag and drop tasks into the appropriate statuses so your team can see task status at a glance. It's also an ideal spot to pinpoint project bottlenecks and collaborate on waterfall projects without needing the Gantt view.

2. Gantt (Team, Business and Enterprise plans)

Traditional project managers regularly [use the Gantt chart](#) for planning large projects consisting of many moving parts and resources, often importing plans from Excel and Microsoft Project. ProjectManager's Gantt is one of our most popular features as it allows for time-based plans and schedules, offering hybrid teams both a visual and data-driven view in one.

Our newest software update also rolled out [custom templates and more featured templates](#) where teams can use our pre-built templates and customize them accordingly for faster project kickoffs.

3. List (All plans)

The List is another popular view as it is simple yet effective; here, you can assign task priorities, create filters and collaborate with your team members regardless of their location. Head to the List view to create weekly tasks or checklists for your hybrid team. You can also see project details such as assignee, priority and overall progress.

4. Project Dashboard (All plans)

Another feature in our top 10 list is the [Project Dashboard](#), a convenient place to see a high-level status report of your projects. There are six widgets on this view including project health, tasks, progress, time, cost and workload. With a few clicks, hybrid team leads can share data from the Dashboard with both internal and external team members for an easy status update.

Many project managers use the Dashboard to pinpoint issues within the project to continually improve their processes for even better results.

5. Team Page (All plans)

In a hybrid work environment, it can be difficult to understand what team members are taking on what projects. [The Team section](#) of our hybrid work management software features helpful data such as the workload, progress and due date for each individual team member.

Use the Team view to determine which team members can take on additional work and which are falling behind.

6. My Work (All plans)

The easiest way to keep tabs on all of your individual tasks across projects is My Work. Here, you can quickly understand what's on your plate across all of your projects and create personal tasks to keep track of your individual workload.

This is an excellent view to reassign tasks to other team members and see all uploaded files in one place.

7. Sheet (Team, Business & Enterprise plans)

Need the functionality of a spreadsheet without the visual aspect of the Gantt chart? Head to the Sheet view to create custom columns, oversee resource details and share filtered project data with key stakeholders.

The Sheet view offers the familiar layout of an Excel spreadsheet, except it's even easier to use. Plus, ProjectManager users can set up the Sheet view one way and the Gantt chart another way without worrying about impacting data—each experience is unique.

8. Reports (Team, Business & Enterprise plans)

Put critical project data to good use in [the Reports view](#). It only takes a few clicks to build and share status reports, task reports and workload reports, to name a few. The Reports view is completely customizable so you can include exactly the information that your team members need to see. Monitor the health of your entire project portfolio, keep a close eye on project budget and timelines, and ensure key stakeholders have the latest data.

Need more information on making Reports via ProjectManager? Make sure to download the complete version of our Quick Start Guide for hands-on guidance on some of our most popular features.

9. Workload (Business & Enterprise plans)

In a hybrid work environment, it's easy for project resources to slip into the red if they are not closely tracked. In the Workload view, project managers have the visibility to oversee the workload for their contractors and vendors and see the planned versus realized effort across their portfolios.

Keep remote contractors as productive as possible by [monitoring their logged hours](#) and determining patterns to predict the future time spent on projects. The Workload view is particularly useful for contractors and vendors who are keeping track of their time spent on projects.

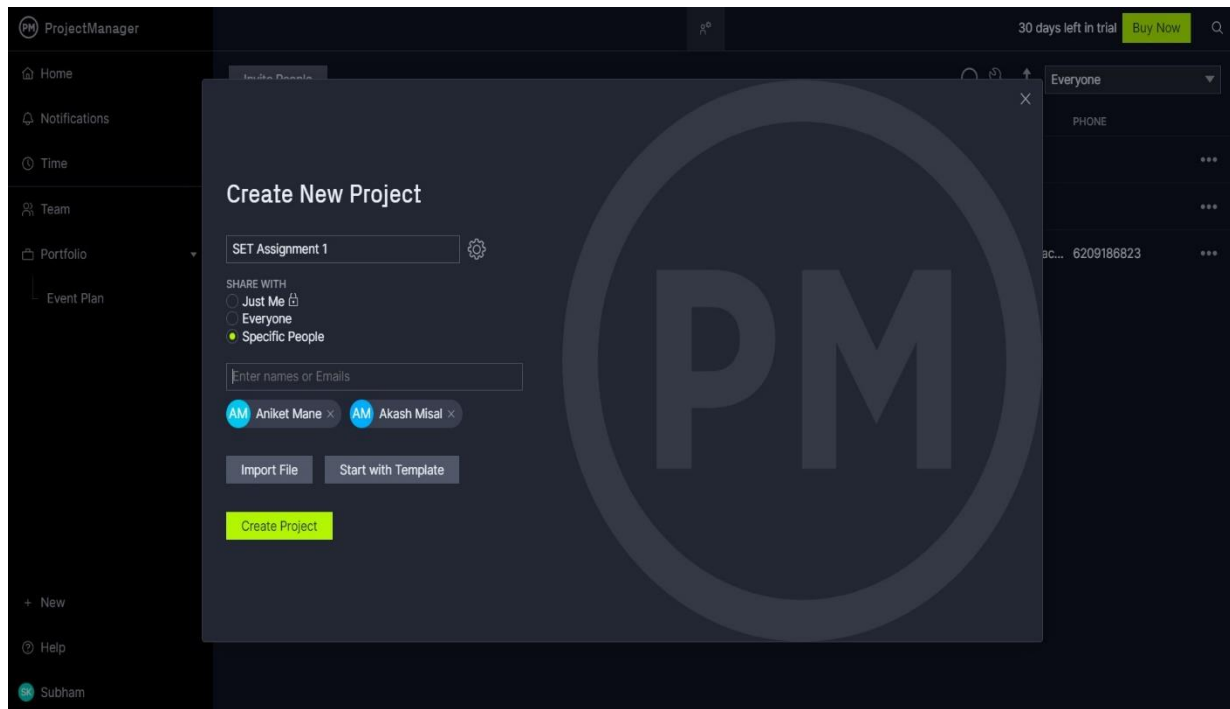
10. Roadmap (Business & Enterprise plans)

Rounding out our list of 10 of our most popular features is the Roadmap. Although it is only available on Business and Enterprise plans, it is a feature worth exploring for your hybrid team.

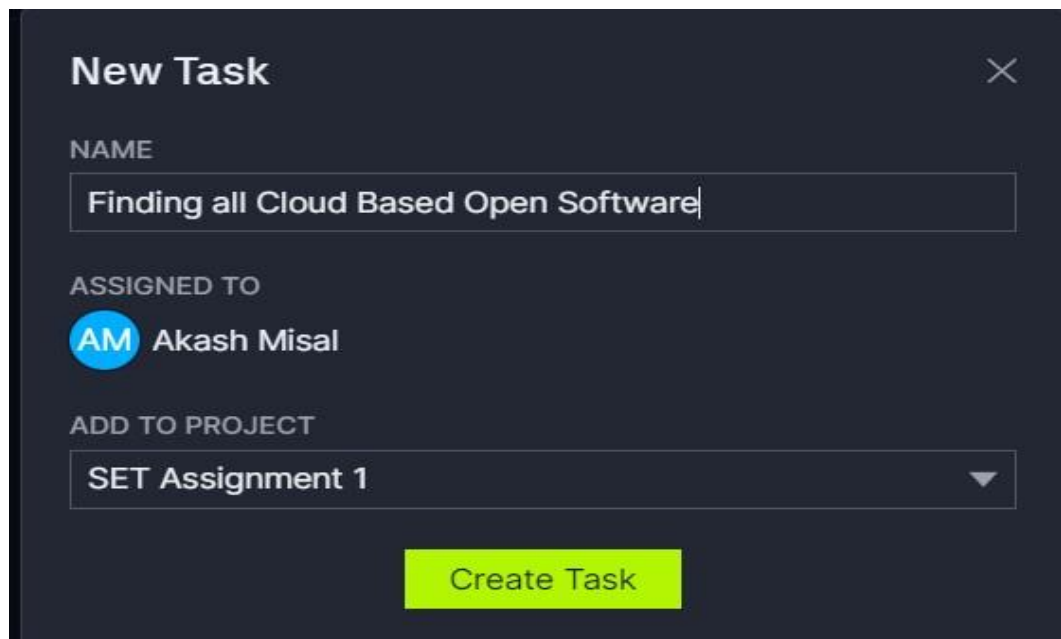
The Roadmap allows you to see all of your projects on a single timeline, making it easy to see what is ahead of schedule and what projects are falling behind. It has the familiar Gantt view that project teams know and love in addition to the planned versus actual effort it takes to complete a project.

Operations Performed

1. Creating a new Project and adding my team members to it.



2. Assigning tasks to all my team members and to myself.



New Task

NAME

Taking all appropriate screenshot of the selected Software

ASSIGNED TO

AM

Aniket Mane

ADD TO PROJECT

SET Assignment 1

Create Task

New Task

NAME

Compiling the final results

ASSIGNED TO

SK

Subham Kumar

ADD TO PROJECT

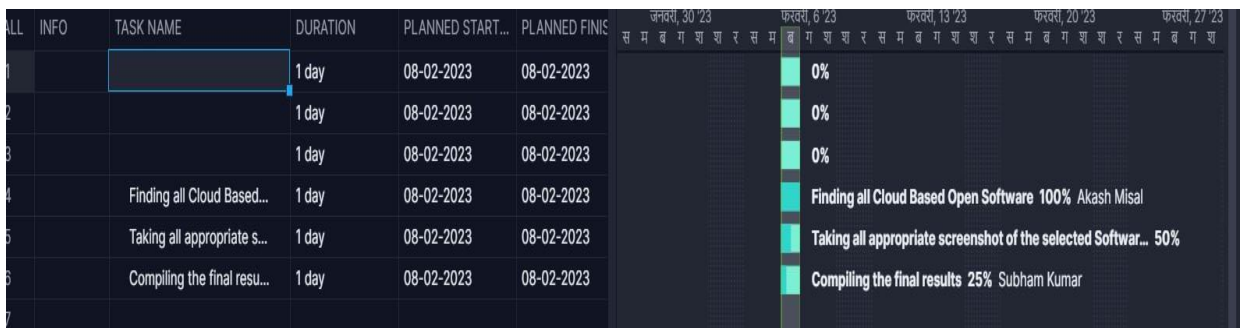
SET Assignment 1

Create Task

3. Checking Progress of all members.

DONE	TASK NAME	PRIORITY	ASSIGNED TO	STATUS	PROGRESS	DUE
<input checked="" type="checkbox"/>	Finding all Cloud Based Open Software		AM	To Do	100%	Today
<input type="checkbox"/>	Taking all appropriate screenshot of the selected Software while performing operations		AM	To Do	50%	Today
<input type="checkbox"/>	Compiling the final results		SK	To Do	25%	Today

4. Gantt chart to see progress



5. Seeing tasks on Calendar

