IT- 414 Software project management
Group - 3

Open Project : Software Project Management Tools
User Manual

★ About the Open Project tool :-

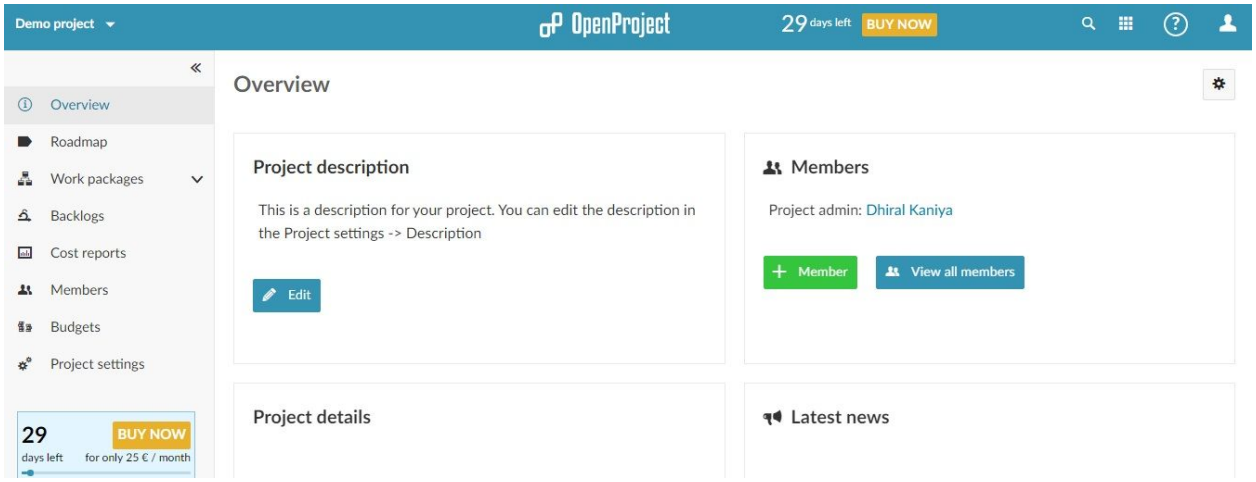
- ➢ Open Project is a free open source web application for a project collaboration and manage project at once place. Open project stand alone application for project planning.
- ➢ OpenProject is established 2012 in Berlin, Germany by openproject foundation.
- ➢ OpenProject first version was launched in october 2012 and latest stable version 7.2.1 was launched in August 2017.
- ➢ OpenProject is released under the GNU General Public Licence, which guarantees to the end user freedom to run, study, share and modify the software/web-based application.
- ➢ OpenProject is developed using Angularjs and Ruby-Rails programming languages.
- ➢ Team openproject is also share their code on open source platform github and invite collaborator for contribute.(Link :- https://github.com/opf/openproject).

❖ Features :-

1. **Overview :-**

➢ Overview describes project definition, news feed of project, project details and current working member details.

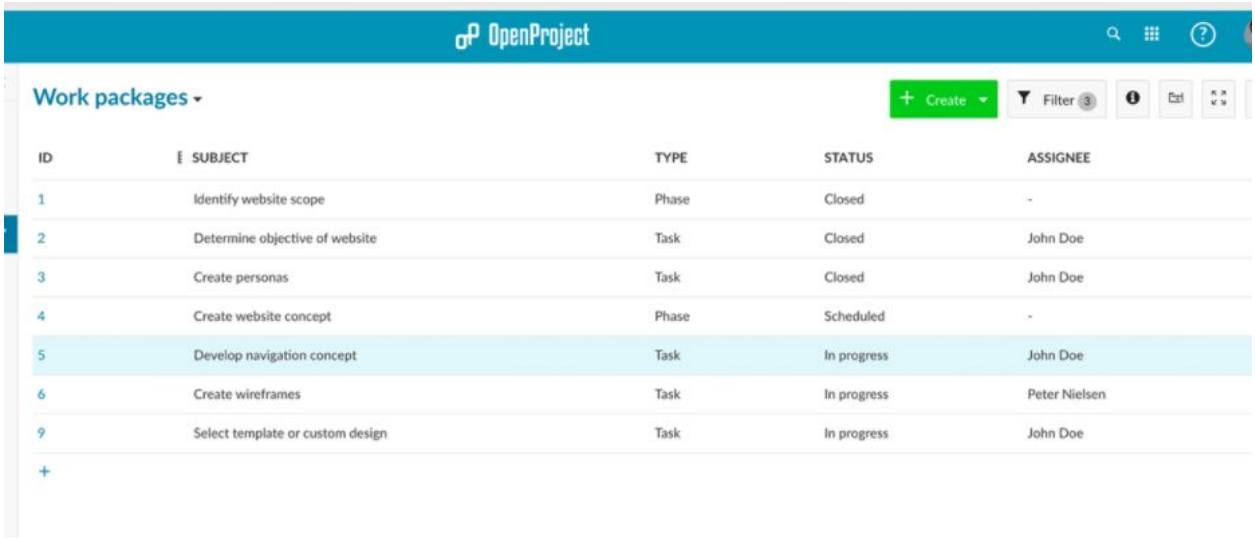
➢ Only project admin have rights to manage project details and definition of the project.



2. **Roadmap :-**

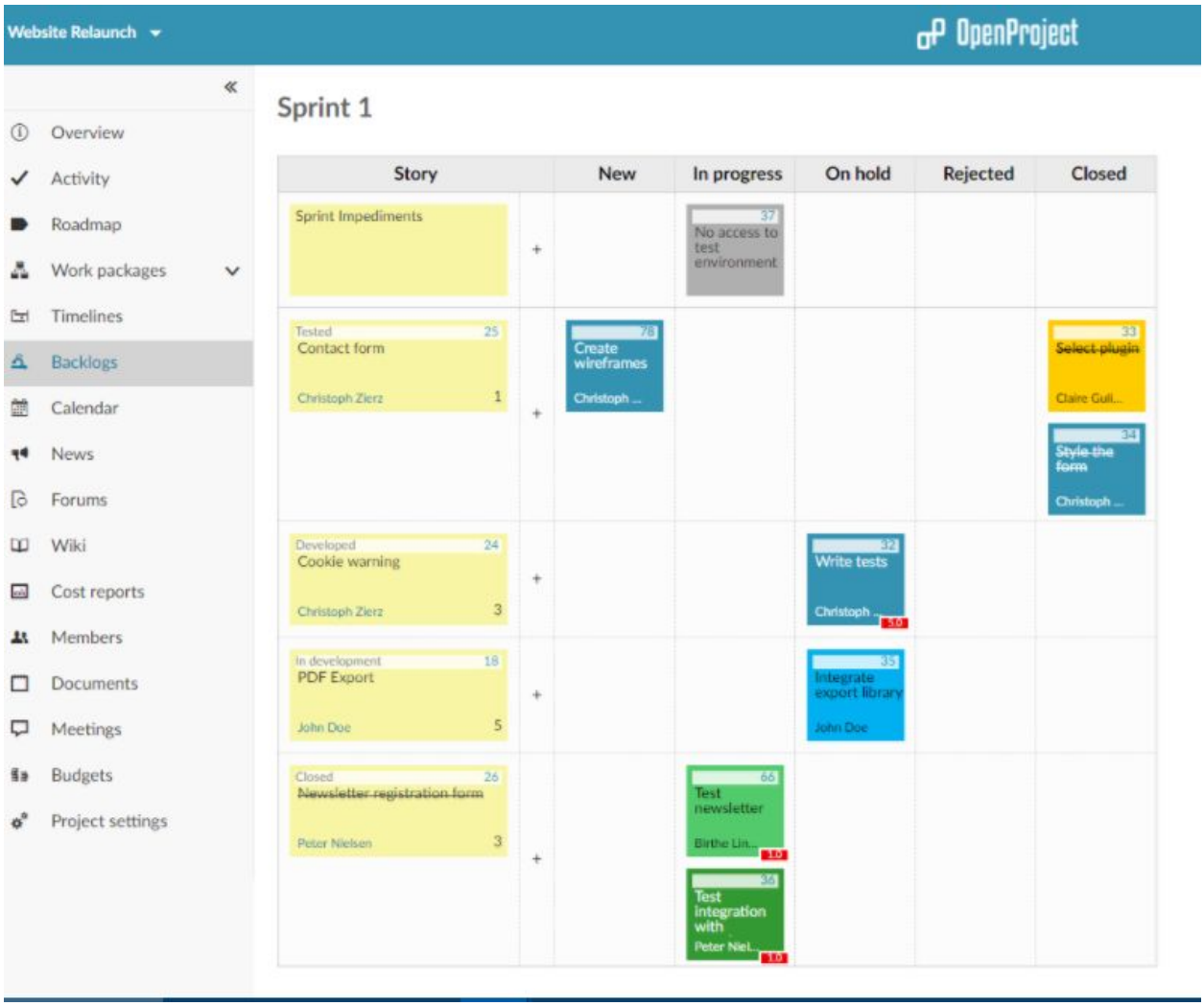
➢ Roadmap describe the version of the project along with their issue and their details. Basically active roadmap can be considered as success key of the project. Example of roadmap is given below.

3. WorkPackages :-



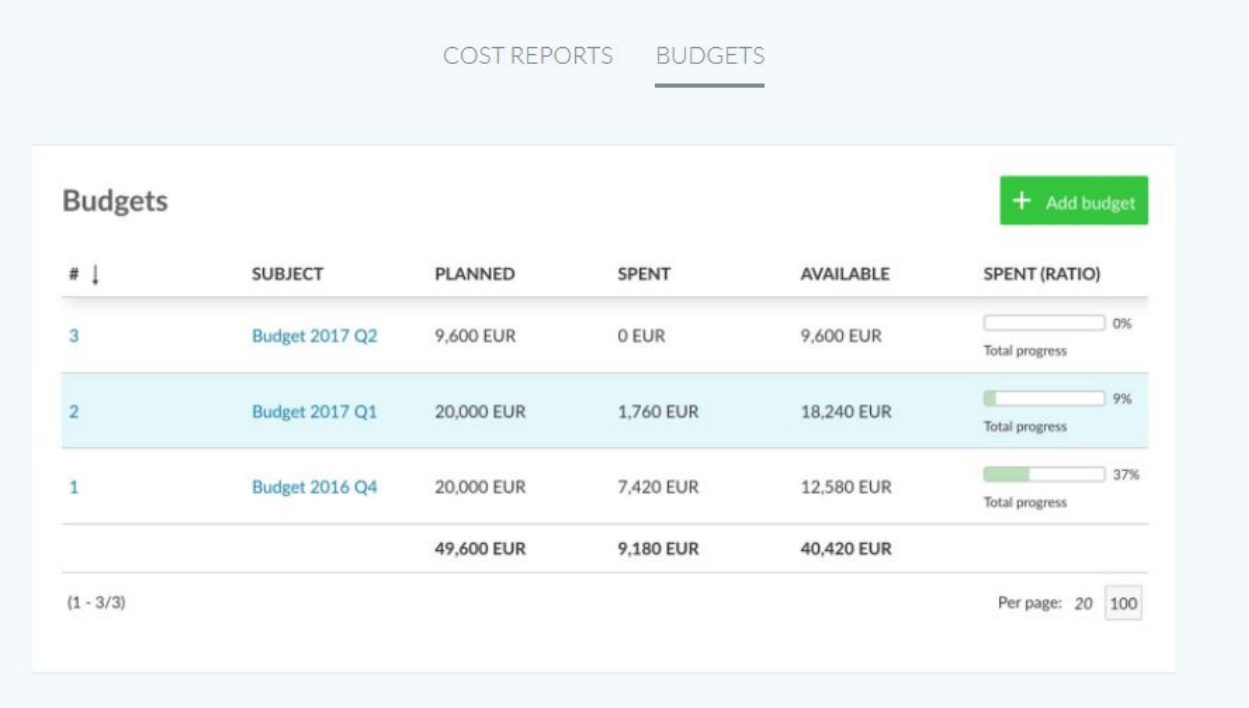
- ➢ Work Packages is all about the work that has been assigned to the members.
- ➢ In addition to that, it covers summary of the task, bugs, milestone, phases, timeline and user stories that helps to manage task distribution at one place.
- ➢ Work Packages module also covers generating the report by exporting or saving in different format.
- ➢ In addition to that, it covers filter feature for assigned works.

4. Backlogs :-



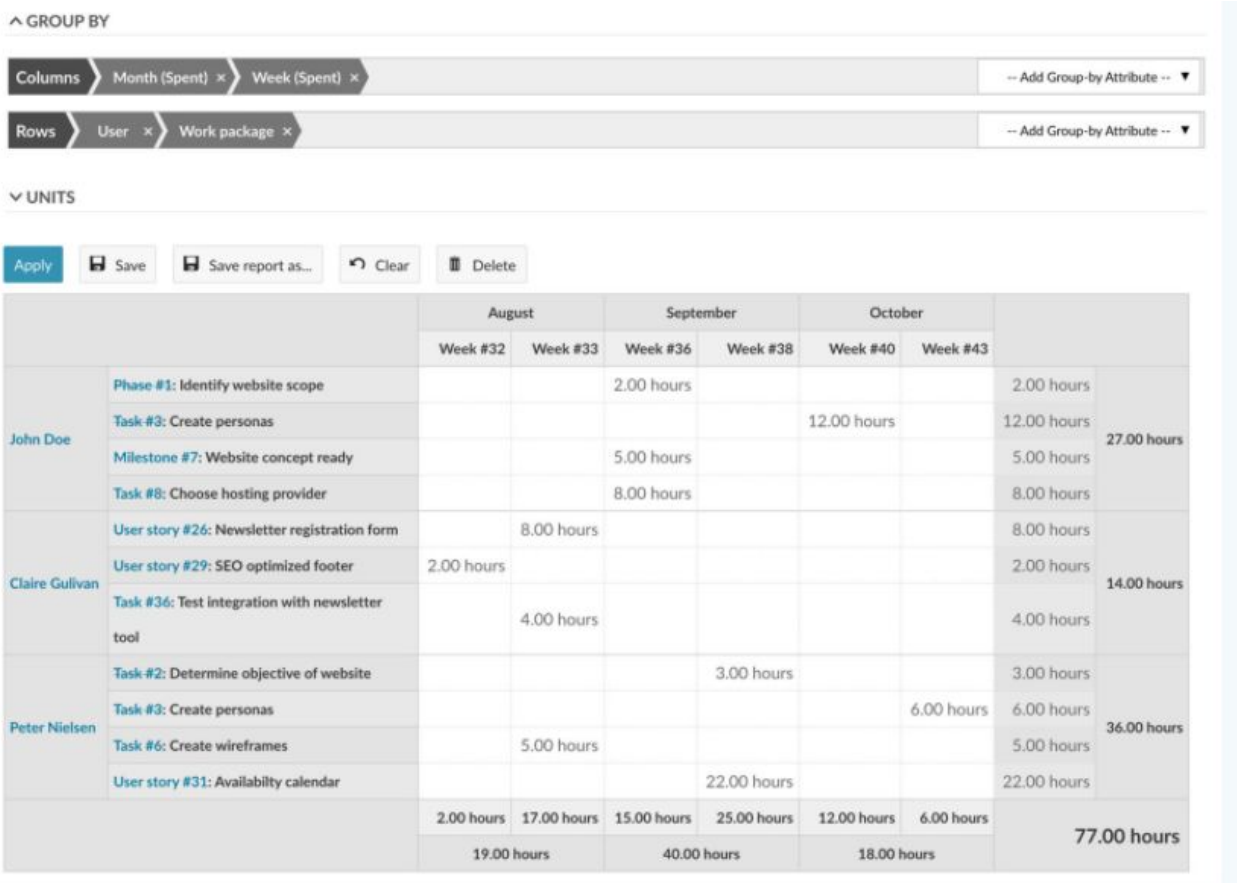
- ➢ For effective work in Scrum teams is a well-maintained and prioritized product backlog as well as the creation of sprint backlogs.
- ➢ In OpenProject, you can easily record and specify requirements represented by user stories. Moreover, you can respond to inquiries and sort them by priority for implementation.
- ➢ Backlogs provide to create new backlog, user stories, prioritizing task and working for particular story point along with timeframe.

5. Budget :-



- ➢ Budget is basically used to manage budget for particular project at individual level.
- ➢ We can assign cost to the particular member in the Openproject who are responsible to increase or decrease the project cost amount along with file.

6. Cost Report :-



GROUP BY

Columns: Month (Spent) × Week (Spent) × — -- Add Group-by Attribute --

Rows: User × Work package × — -- Add Group-by Attribute --

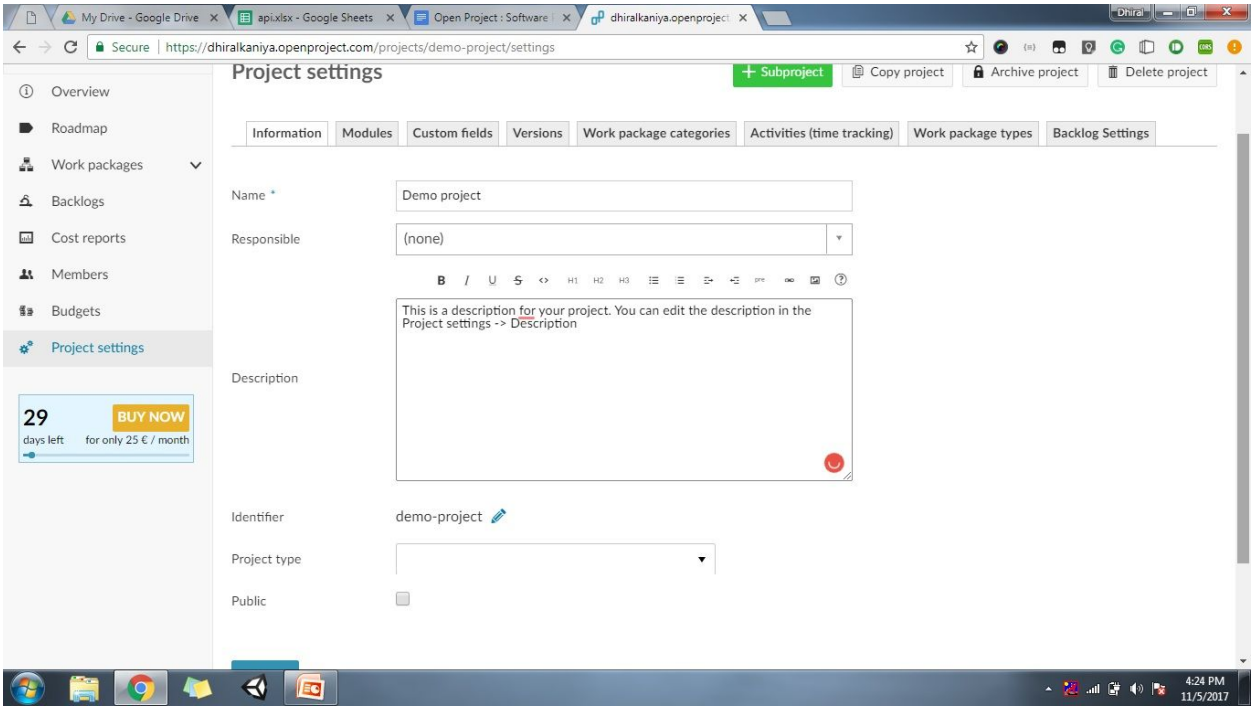
UNITS

Apply | Save | Save report as... | Clear | Delete

		August		September		October		
		Week #32	Week #33	Week #36	Week #38	Week #40	Week #43	
John Doe	Phase #1: Identify website scope			2.00 hours				2.00 hours
	Task #3: Create personas					12.00 hours		12.00 hours
	Milestone #7: Website concept ready			5.00 hours				5.00 hours
	Task #8: Choose hosting provider			8.00 hours				8.00 hours
								27.00 hours
Claire Gulivan	User story #26: Newsletter registration form		8.00 hours					8.00 hours
	User story #29: SEO optimized footer	2.00 hours						2.00 hours
	Task #36: Test integration with newsletter tool		4.00 hours					4.00 hours
								14.00 hours
Peter Nielsen	Task #2: Determine objective of website				3.00 hours			3.00 hours
	Task #3: Create personas						6.00 hours	6.00 hours
	Task #6: Create wireframes		5.00 hours					5.00 hours
	User story #31: Availabilty calendar				22.00 hours			22.00 hours
								36.00 hours
		2.00 hours	17.00 hours	15.00 hours	25.00 hours	12.00 hours	6.00 hours	77.00 hours
		19.00 hours		40.00 hours		18.00 hours		

- ➢ Assigning a work package to a budget requires installation of the costs plugin.
- ➢ The budget page is only available when the Budget module has been activated in the project settings.
- ➢ In order to assign a work package to a budget select a work package, click the *Show all* button, click on the budget and assign a value from the dropdown menu. You can assign several work packages to the same budget.

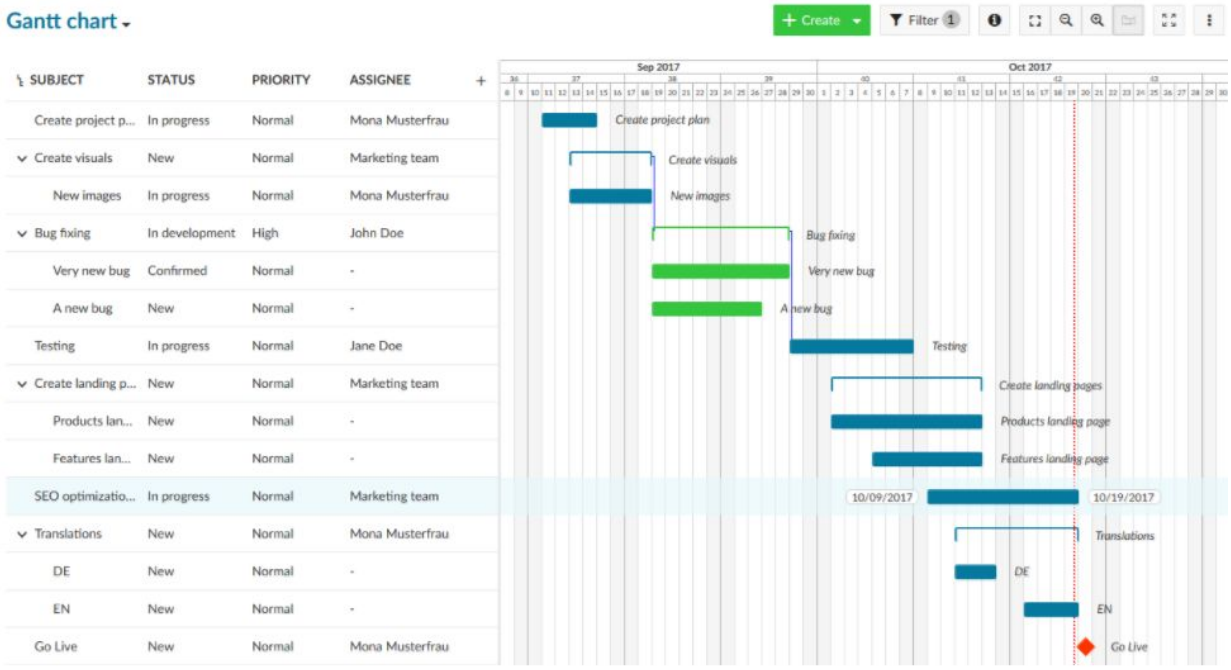
7. Project Setting :-



➢ Every project can be individually adjusted, with different functionalities being activated or deactivated, differing project members, customized roles and workflows. Depending on the role you have, you may or may not be able to do this.

➢ To do that select Project settings at the bottom of the project menu and select the tab you want to adapt.

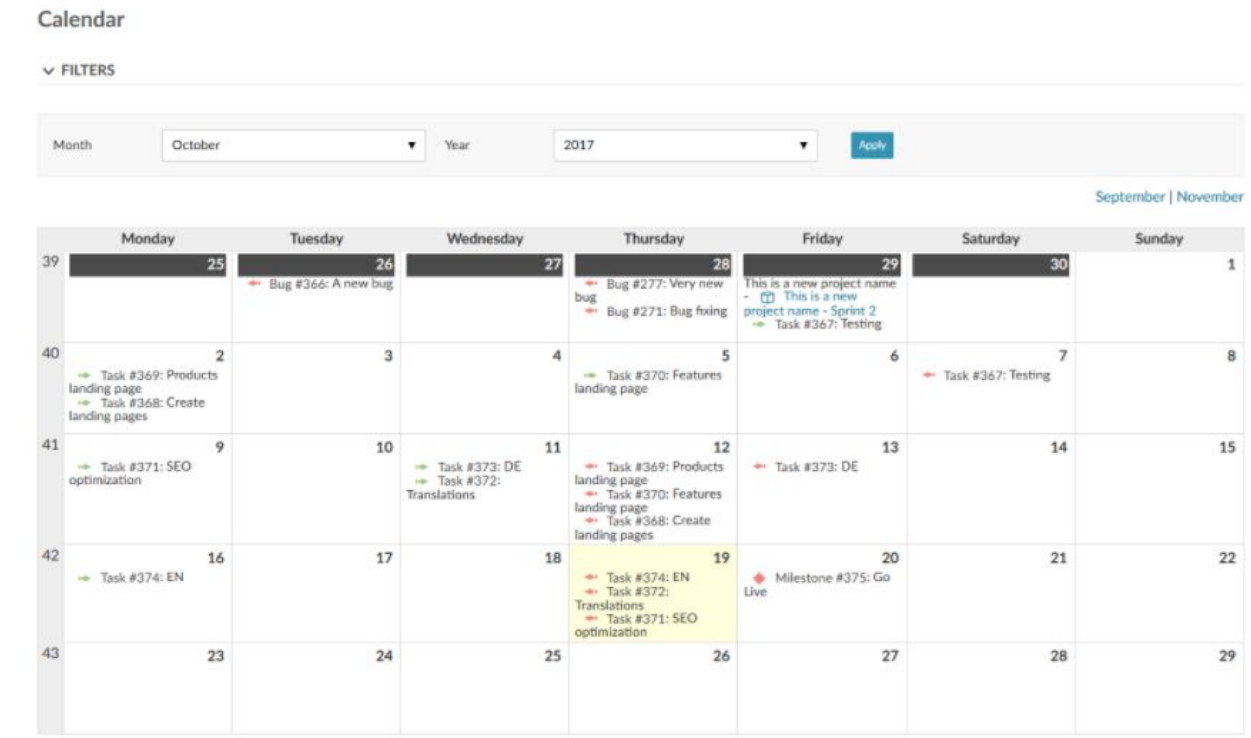
8. Gantt Chart :-



➢ Using this feature we can create a project management plan that shows how and when the project team will deliver the work packages and according milestones defined in the project scope.

➢ Display multiple projects in one gantt chart and highlight changes to the project schedule.

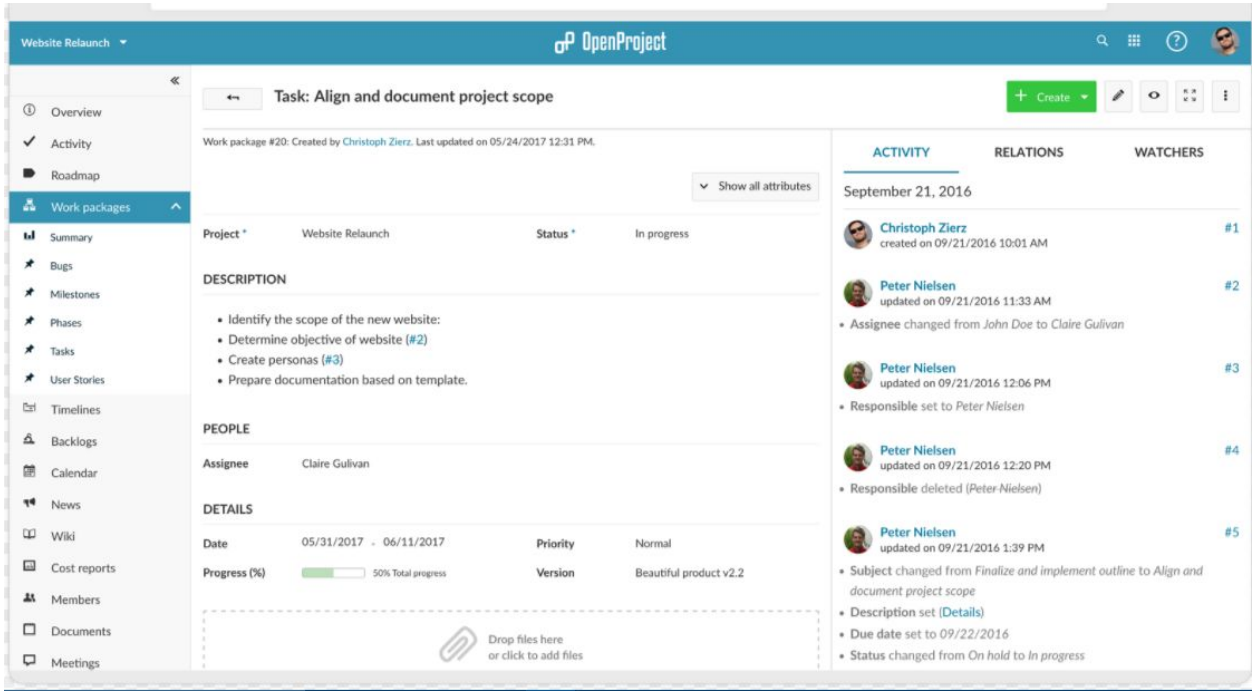
9. Calendars :-



➢ Using this feature we can abstractly overview of all the work done in the whole month.

➢ We can see the which task has started this month which task is completed this month.

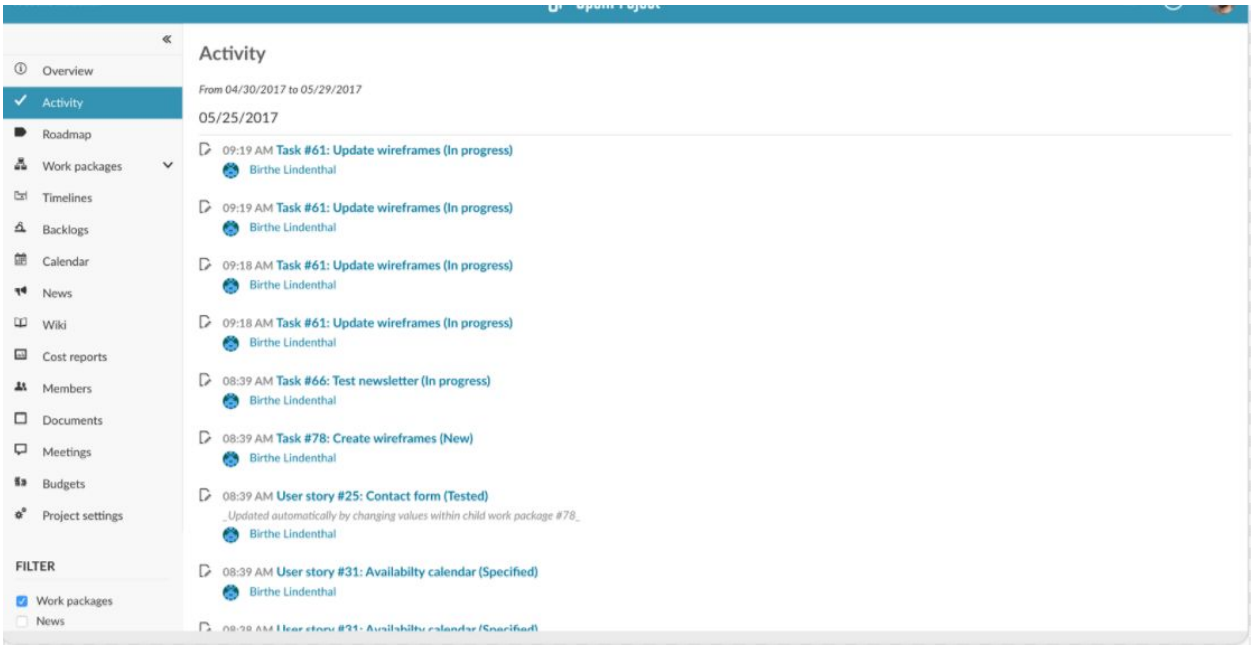
10. Issue Tracking :-



➢ To Manage all project tasks, deliverables and activities we can use this feature.

➢ To Stay on top of every possible issue - tasks, risks, features, bugs and much more - with the ability to define separate workflows and custom fields to adapt OpenProject to our specific needs. All information and communication available at one place.

11. Activity Streams :-

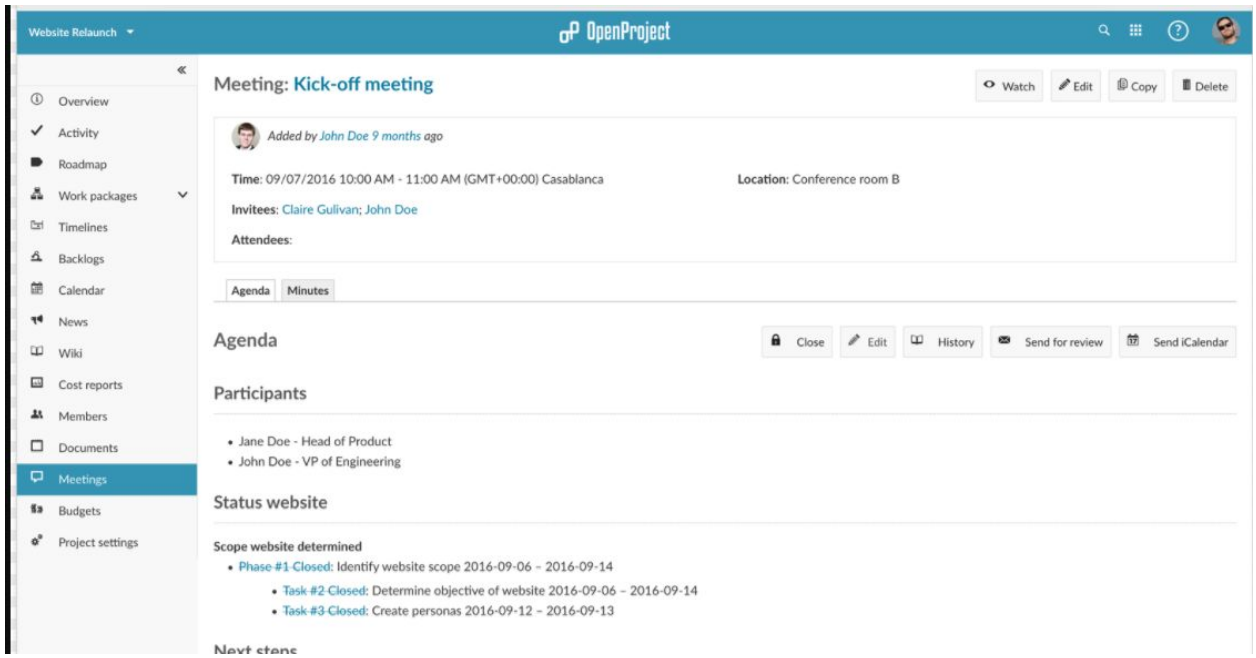


➢ To track project activities we can use this feature.

➢ We can get instant status reports.

➢ We can get a real time feed of all project activities and get a quick overview of all important changes.

12. **Metting :-**

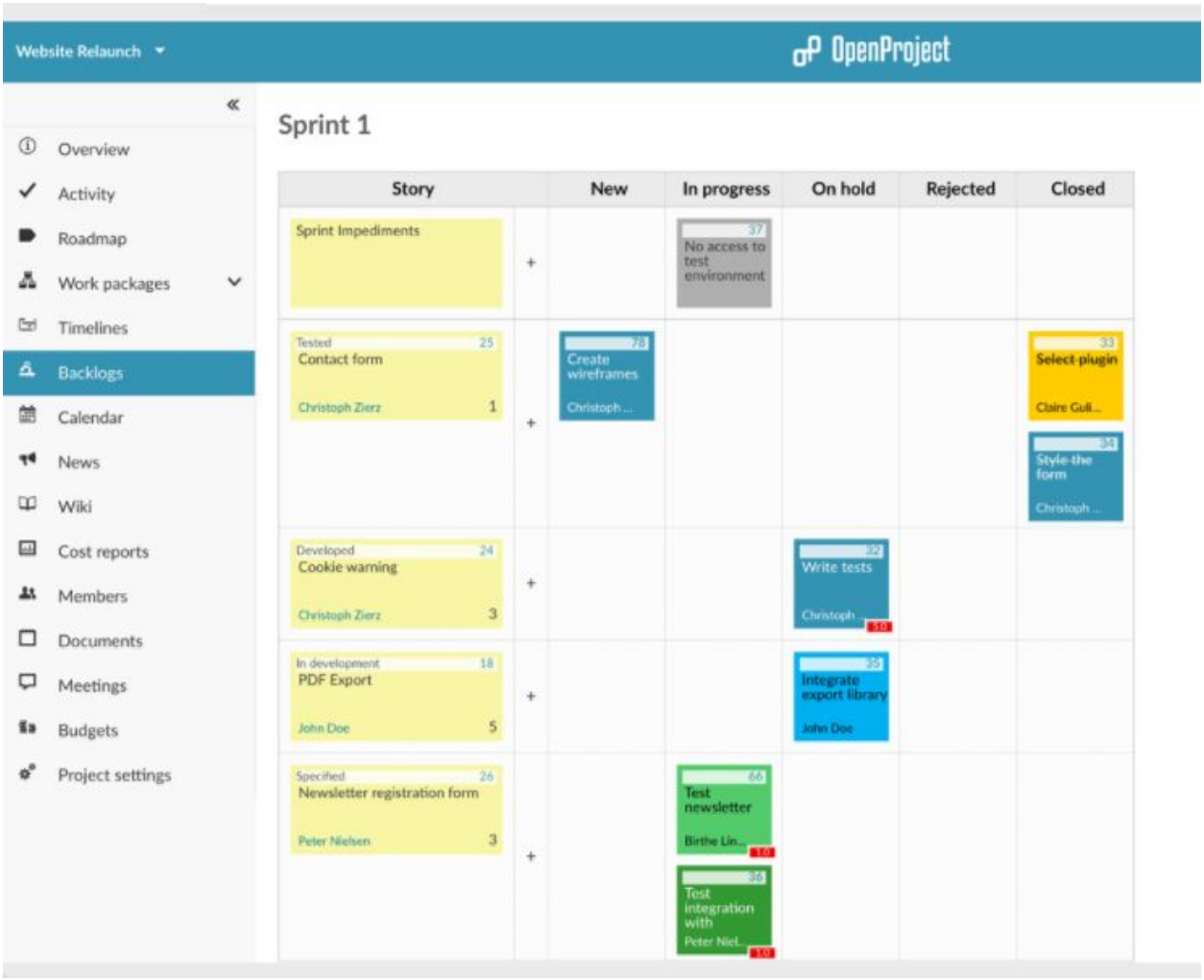


➢ We can do Effective planning and documentation of project meetings

➢ We can use meetings to manage agendas and minutes and inform project members about the latest developments.

➢ We can Link tasks and send email notifications to participants.

13. Agile and Scrum :-



- ➢ We can use this feature to update tasks with drag and drop
- ➢ We can use the task board to break deliverables into individual tasks and update their status with drag and drop.

In addition to that OpenProject is also provide help, profile management, modules management and searching facilities for individual project. OpenProject is also used to manage multiple project at the same time.

❖ **How to install OpenProject in our system ?**

➢ OpenProject provide web-based and software based platform for user to working of. For web-based project just reach on their website then create account(if you have google account then you can use it.)

➢ For Ubuntu installation steps are as follow(There are various installation processes are available but we prefer ubuntu 14.04 or greater version installation).

★ **Manual Installation steps** :-

Step 1:- Import the packager.io repository signing key

wget -qO- https://dl.packager.io/srv/opf/openproject-ce/key | sudo apt-key add -

Step 2:- Add the OpenProject package source

sudo wget -O /etc/apt/sources.list.d/openproject-ce.list \https://dl.packager.io/srv/opf/openproject-ce/stable/7/installer/ubuntu/14.04.repo

Step 3:-Install the OpenProject Community Edition package

apt-get update
apt-get install openproject

- **For Configuration please follow below steps.**

  sudo openproject config:set SESSION_STORE=active_record_store

- **For Customization please follow below steps.**

  Step 1. Add a custom Gemfile

  gem 'openproject-emoji', git: 'https://github.com/tessi/openproject-emoji.git', :branch => 'op-5-stable'

  Step 2. Propagate the Gemfile to the package

```
openproject config:set CUSTOM_PLUGIN_GEMFILE=/etc/openproject/Gemfile.custom
```

Step 3. Rerun the installer

Open project configure

❖ **How Open Project is different from Other tools ?**

★ Comparison between OpenProject and Jira :-

➢ Jira is a proprietary software. Therefore, users run the risk of depending solely on the vendor to make code adjustments / implementing feature requests. Additionally, Jira is quite complex to use and the cloud service is quite slow.
➢ While Jira offers a lot of features, many functionalities are only available available through external plugins (such as the Gantt chart). Therefore, those external plugins need to be purchased and can get quite expensive.
➢ Feature Wise Comparison of OpenProject and Jira is given.

Features	OpenProject	Jira
Issue Tracking / Task Management	✓	✓
Fast inline issue creation/update	✓	✓
Timeline / Gantt chart	✓	✓
Time and Cost tracking	✓	✓
Product Roadmap	✓	✓
Meetings	✓	✓
Repository	✓	✓
Forums	✓	✓
Mobile-friendly layout	✓	✓
Modern design	✓	✓
Single-page application	✓	✓
Open source	✓	

★ Comparison between OpenProject and Wrike:-

➢ OpenProject and Wrike both offer classical project management features. However, OpenProject also includes code management integrations through repositories and release management through product roadmap
➢ Wrike is not open source. Wrike also offers no self-hosted version. Additionally, Wrike does not have an integrated source control management feature which makes it difficult for software projects to be managed in an integrated way.On Other side OpenProject does have this functionalities.
➢ Feature Wise Comparison of OpenProject and Wrike given.

Features	OpenProject	Wrike
Issue Tracking / Task Management	✓	✓
Fast inline issue creation/update	✓	✓
Timeline / Gantt chart	✓	✓
Time and Cost tracking	✓	✓
Product Roadmap	✓	
Meetings	✓	
Repository	✓	
Forums	✓	
Mobile-friendly layout	✓	✓
Modern design	✓	✓
Single-page application	✓	✓
Open source	✓	

★ Comparison between OpenProject and Trello:-

➢ OpenProject allows release management through product roadmap. Additionally, OpenProject makes communication easy: You can organize meetings directly within OpenProject and manage forums.While on other side Trello does not support this features.

➢ Unfortunately Trello's advantages (simplicity, Kanban view) make often make it difficult to use in business environments. Trello lacks many enterprise project management features, such as Gantt charts, time and cost tracking. and the fact that there is no self-hosted version of Trello. Trello also does not support meeting organization. OpenProject on the other hand provides self-hosting through the Enterprise Edition. Software development companies will also miss an integrated source control management system in Trello which is helpful to easily coordinate development progress.

➢ Feature Wise Comparison of OpenProject and Trello given.

Features	OpenProject	Trello
Issue Tracking / Task Management	✓	✓
Fast inline issue creation/update	✓	✓
Timeline / Gantt chart	✓	
Time and Cost tracking	✓	
Product Roadmap	✓	
Meetings	✓	
Repository	✓	
Forums	✓	
Mobile-friendly layout	✓	✓
Modern design	✓	✓
Single-page application	✓	✓
Open source	✓	

★ Comparison between OpenProject and Redmine:-

- ➢ OpenProject is historically a successor of Redmine but uses a more modern technology and a more user-friendly, up-to-date design.
- ➢ Instead of a traditional web application, OpenProject is a modern single-page application
- ➢ Users can for example create and edit issues with a single click while Redmine requires multiple steps to accomplish the same.
- ➢ The same is true for adding new members to a project: In Redmine you need to create a new user in the administration screen. Then you need to add the user to the project. OpenProject allows to do both in one step.
- ➢ OpenProject also offers a modern, dynamic Gantt chart which is very user-friendly and integrated in the work package page. Redmine on the other hand includes an old timeline which requires many page reloads to update.

Features	OpenProject	Redmine
Issue Tracking / Task management	✓	✓
Fast inline issue creation/update	✓	
Timeline / Gantt chart	✓	✓
Time and Cost tracking	✓	✓
Product Roadmap	✓	✓
Meetings	✓	✓
Repository	✓	✓
Forums	✓	✓
Mobile-friendly layout	✓	
Modern design	✓	
Single-page application	✓	
Open source	✓	✓

★ Comparison between OpenProject and Liquidplanner :-

➢ OpenProject and LiquidPlanner both offer classical project management features. However, OpenProject also allows release management through product roadmap Additionally, you can communicate easily: You can organize meetings directly within OpenProject and manage forums.

➢ LiquidPlanner is not open source, meaning users run the risk of depending solely on the vendor to make code adjustments / implementing feature requests. LiquidPlanner offers no self-hosted version. Additionally, LiquidPlanner does not have an integrated source control management feature. This makes it difficult for software projects to be managed in an integrated way.

➢ Feature Wise Comparison of OpenProject and Liquidplanner given.

★ Comparison between OpenProject and Basecamp :-

➢ OpenProject and Basecamp both offer classical project management features.

Features	OpenProject	LiquidPlanner
Issue Tracking / Task Management	✓	✓
Fast inline issue creation/update	✓	✓
Timeline / Gantt chart	✓	✓
Time and Cost tracking	✓	✓
Product Roadmap	✓	
Meetings	✓	
Repository	✓	
Forums	✓	
Mobile-friendly layout	✓	✓
Modern design	✓	✓
Single-page application	✓	✓
Open source	✓	

However, OpenProject also allows release management through product roadmap

➢ Basecamp misses several critical project management features, such as Gantt charts for effective planning and progress visualization. In addition, it does not offer time and cost tracking, source code management integration or custom workflows. Basecamp also offers no self-hosted version for Basecamp which would enable on-premise deployments. OpenProject on the other hand provides self-hosting through the Enterprise Edition.

Features	OpenProject	Basecamp
Issue Tracking / Task Management	✓	✓
Fast inline issue creation/update	✓	
Timeline / Gantt chart	✓	
Time and Cost tracking	✓	
Product Roadmap	✓	
Meetings	✓	✓
Repository	✓	
Forums	✓	✓
Mobile-friendly layout	✓	✓
Modern design	✓	
Single-page application	✓	
Open source	✓	

➢ Feature Wise Comparison of OpenProject and Basecamp given.

★ **References :-**

➔ https://www.openproject.org/
➔ https://en.wikipedia.org/wiki/OpenProject
➔ https://github.com/opf/openproject