Government Engineering College, Thrissur CS333– Application Software Development Lab Documentation Mini-Project Project Portfolio Management – Open PPM

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Project Portfolio Management – Open PPM

Setup

Database

Project development will change the database as we proceed, it is not one time process. We improve as we built new features into the application. We can setup a database from Linux terminal. First of all login to your MySQL using following command:

Enter the password. Now we can import the SQL queries and create database – tables, triggers, functions, procedures etc... Use the following code to import database -

Importing database will take some time. It may take up to 5 min.

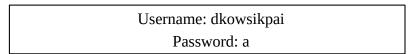
Project

This project runs on PHP 7.4.12 and MySQL 8.0.22.

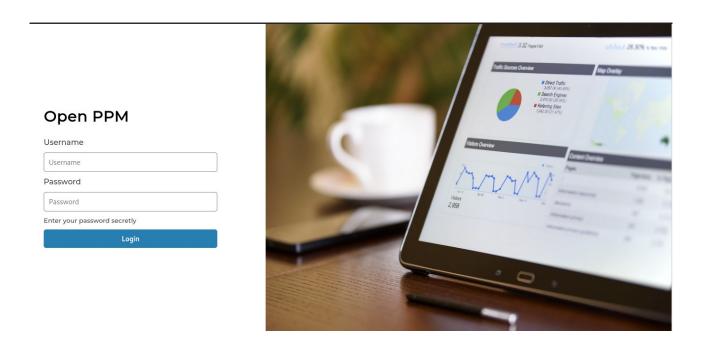
Extract zip file named *ppm* and copy it to the location /*var/www/html/ppm*. Now we can access the website by typing *localhost/ppm* in browser. (Recommended Mozilla Firefox). We need to edit some of the configuration file in-order to connect the application to the database previously created.

- 1. Open **connection.php** file from **config** folder
- 2. If the MySQL is installed on the same system keep the server name as localhost. No need to change
- 3. Enter user name, password, and database name(open_ppm)
- 4. Open the web application in browser. It will be redirected to login page automatically.

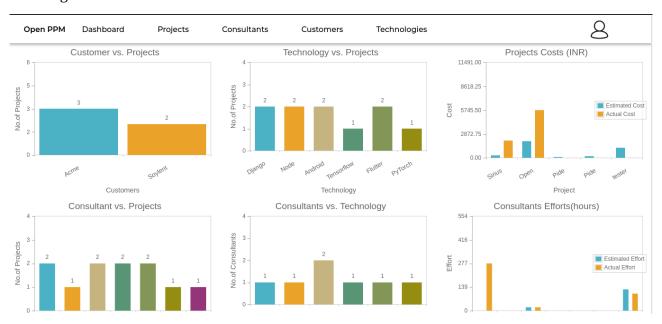
If database is connected without errors we will be able to login to the dashboard with following user name and password.



Login page screenshot is provided in the next page



After login we will be redirected to dashboard. Dashboard looks like -



We can see navigation bar on the top. Dashboard gives insight into how projects, resources and cost managed. Note: If some graph is not showing it means that, minimum amount of data for analytic is not available. For example if consultant effort is not showing any plots, we can add required information in $Project \rightarrow Transaction$.

Introduction to Open-PPM

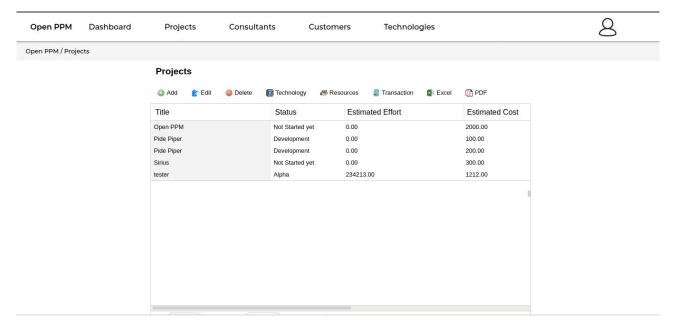
Dashboard

Dashboard provides a sleek insight into project portfolio management. Open PPM provides different analytic plots from the information provided. Some of the plots include

- Projects vs. Customers
- Projects vs. Technology
- Projects Costs
- Consultants vs. Projects
- · Consultants vs. Technology
- Consultants Efforts

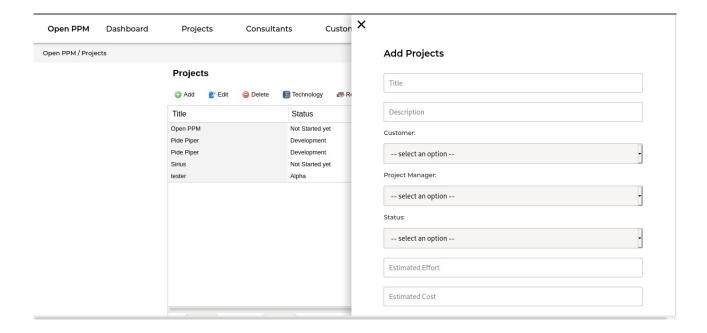
Projects

We can Add, Edit, Delete projects. In addition to the basic operation we can manage technologies used in the various projects. We can also allocate resources based on their designation. We will be able to monitor their transactions to the project. We can monitor actual and estimated quantities. Excel reports, PDF report generations are some of the additional features provided in Open-PPM.



Add

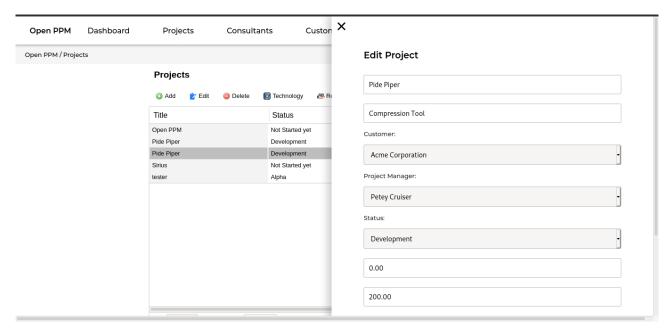
Projects can be added by clicking Add button. As we do any form filling we can provide information in the user-friendly form. Click on the blue submit button to store it in the database. If addition was successfully committed to the database we will get a pop up notification – "Successfully Added".



Customer name, Project Manager names can be selected from the drop down. If you want to add or remove an entry, we can manage it from Customers and Consultants Menu.

Edit

We can edit existing projects trough edit option. After pressing submit we will get success notification if no errors where committed.

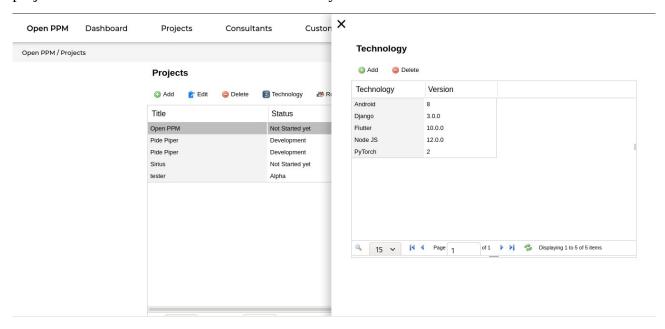


Delete

Delete existing projects.

Technology

We can manage the technologies used in specific project. Only prerequisite to use a new project in a project is that we have to first include that specific project Technologies table. Versions related to each project is treated as different technology at project level. Which helps to team to maintain project when it comes to maintenance and security.

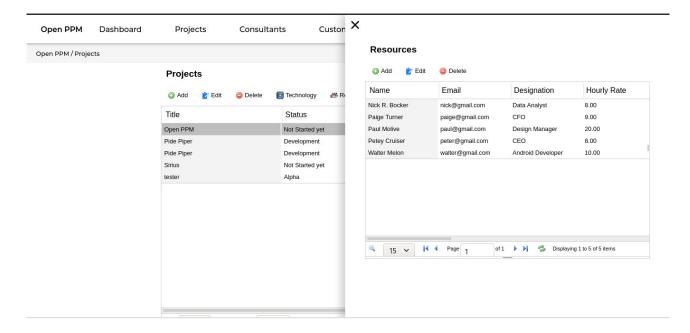


Resources

Consultants who are working on projects are managed using Resource menu. For one consultant to make his transaction he must be included as part of the project. In-order to add/remove a resource without affecting effort and cost computation we can use this feature in Open PPM.

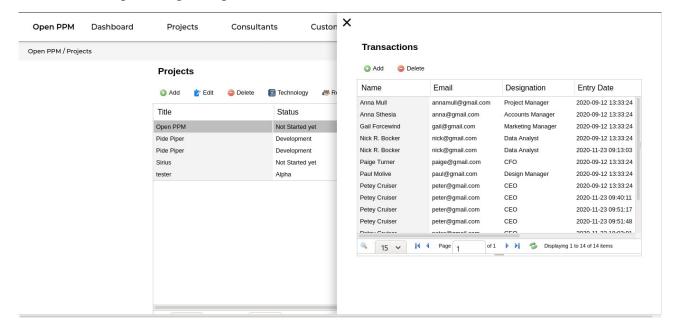
When we add a resource we have to specify the estimated effort that particular consultant is expected to produce. Also for the cost computation we have to provide hourly rate, overtime rate and whether overtime is allowed or not. On adding a new resource, it will be reflected in the plots generated in the dashboard.

We can also edit values dynamically any time using Edit option. Removal of a resource don't affects the transaction the have committed to the project.



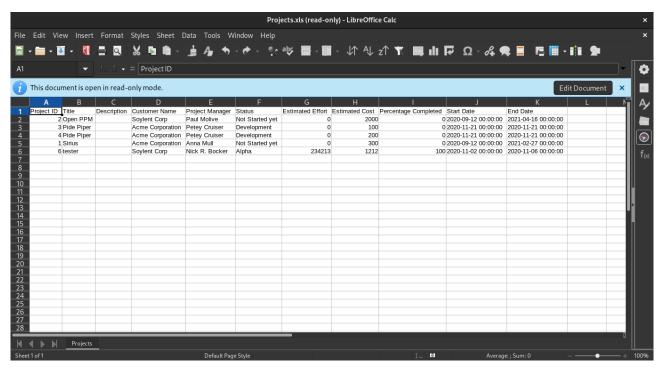
Transactions

Transaction can be treated as how much one person have invested this time and effort in completion of effort. For a company it is a vital information to know how much a resource is productive. We can either add or delete transaction. All transactions are time stamped. When we add an new transaction to the list we have to specify how much effort(in hours) have he spent for the project and the relative percentage completed.



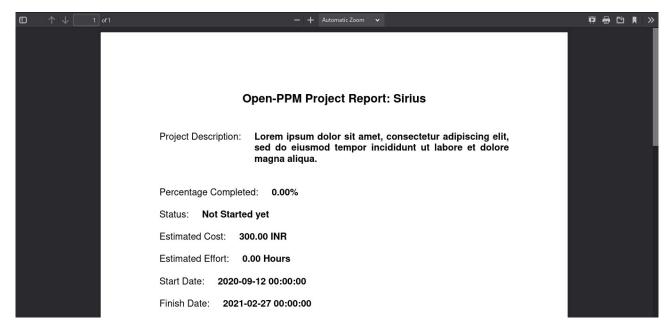
Excel - Export

We can generate Microsoft Excel Report of the project table from this console. *This feature is under development and some of the details aren't added currently.*



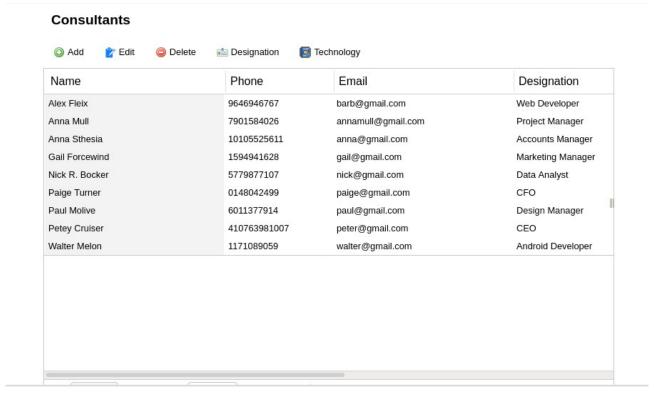
PDF - Report

We can generate PDF report of each project. This feature is also under development. For the demonstration purpose some of the details are provided.

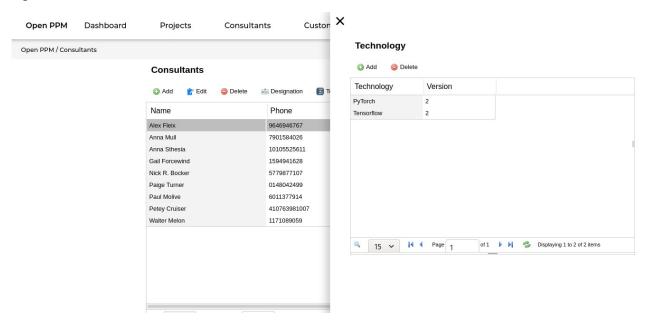


Consultants

In Project Management we usually refer employees as consultants. We can manage their details such as contact details, role in company, grade, designation all can be managed through this portal.

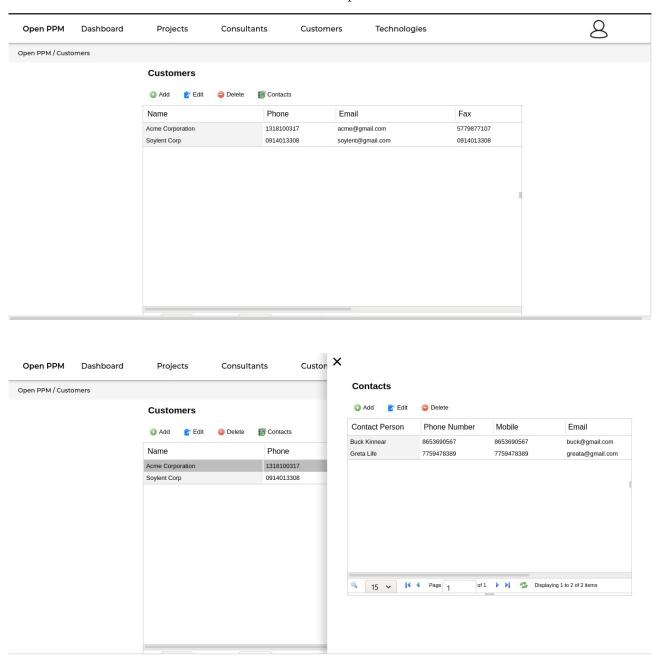


Each consultant may be adept in a particular technology. We can manage the those information in Open-PPM with ease.



Customers

Most important and backbone of a company is their customer. Managing customer information - contact information and their needs can be done in Open PPM with ease.



Technology

As we said earlier, we can manage different versions of different technologies in our application.

