

Redmine Plug-in: Book Meeting Room

Ruby Version- 1.8.7

Rails Version- 2.3.14

Redmine version-1.3.1

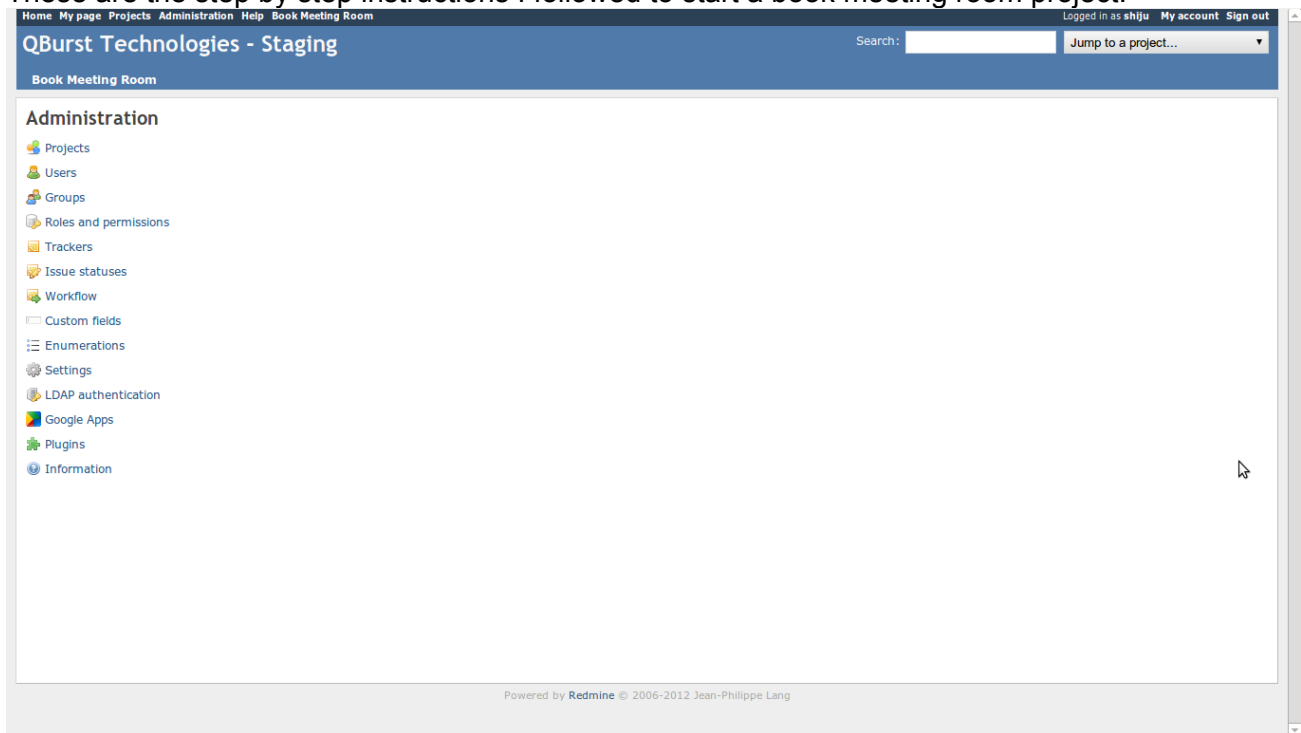
The plugin file goes into the **vendor/plugins** folder.

FEATURES:

- Offers calendar view (Day/Week)
- Allows to click and type on the calendar to book and update meeting rooms.
- Allows to book meeting rooms for one or two weeks using the recur option.
- Does not allow to book meeting rooms for previous days/hours.
- Detects overlap and does not allow to book an already booked room for the same time slot.
- Displays information of a booking, on mouseover.
- Displays booking details for a meeting room by selecting room from the drop down menu.
- Allows to navigate and view meeting room availability of future weeks/days.

STEPS FOR BOOK MEETING ROOM PROJECT CREATION

These are the step by step instructions I followed to start a book meeting room project:



- Log in as Admin
- Creating Tracker
 - From Admin Menu click on **Trackers**.
 - Click on **New tracker** and add a new one for our present project(say *Book Meeting*).

- On Admin Menu List
 - Click on **Custom Fields**.
 - There at the bottom click on **New custom field**, and add: *Start Time, End Time, Meeting Room, Meeting Day*, which are necessary for our present project.
 - Mark the tracker as the one added from previous step(*Book Meeting*).
 - Make the format as **List** for *Start Time, End Time, and Meeting Room*.
 - Make the format as **Date** for *Meeting Day*.
 - Give possible values for *Start Time, End Time, and Meeting Room(not for Meeting Day)*.
 - Give **no** “Default value”
 - Check the “**Required**” and “**Searchable**” checkboxes for *Start Time, End Time, and Meeting Room*.
 - Check the “**Required**” and “**Used as filter**” checkboxes for *Meeting Day*.

The screenshot shows the 'Custom fields' configuration page in Redmine. The page title is 'Book Meeting Room'. The breadcrumb trail is 'Custom fields » Issues » Meeting Day'. The form contains the following fields and options:

- Name ***: Meeting Day
- Format**: Date (dropdown menu)
- Default value**: (empty text box)
- Trackers**: A row of checkboxes for Feature, Support, Task, CodeReview, Bug, Book Meeting (checked), and Suggestion.
- Required**: Checked (checkbox)
- For all projects**: Unchecked (checkbox)
- Used as a filter**: Checked (checkbox)
- Save**: A button at the bottom left of the form.

On the right side, there is a sidebar menu with the following items: Administration, Projects, Users, Groups, Roles and permissions, Trackers, Issue statuses, Workflow, Custom fields (highlighted), Enumerations, Settings, LDAP authentication, Google Apps, Plugins, and Information.

At the bottom of the page, it says 'Powered by Redmine © 2006-2012 Jean-Philippe Lang'.

- Also check the tracker associated with the current project.

Book Meeting Room

Custom fields » Issues » End Time

Name * End Time

Format List

Possible values

- 12:00
- 12:30
- 13:00
- 13:30
- 14:00
- 14:30
- 15:00
- 15:30
- 16:00
- 16:30
- 17:00
- 17:30
- 18:00
- 18:30
- 19:00
- 19:30

One line for each value

Default value

Trackers

☐ Feature ☐ Support ☐ Task ☐ CodeReview ☐ Bug ☒ Book Meeting ☐ Suggestion

Required ☒

For all projects ☐

Used as a filter ☐

Searchable ☒

Save

Administration

- Projects
- Users
- Groups
- Roles and permissions
- Trackers
- Issue statuses
- Workflow
- Custom fields
- Enumerations
- Settings
- LDAP authentication
- Google Apps
- Plugins
- Information

- Note the custom field ids' from the URI
- Creating Rooms(Users)
 - From the Admin Menu select **Users**
 - Click on **New User** at top right corner and create as much new ones as necessary; with names as that intended for the meeting rooms (do not check the Administrator box).
- Now Back to the Admin Menu
 - Click on Projects.
 - Top right corner **New Project**.
 - Give name of the project (say Book Meeting Room2).
 - Give unique name as identifier.
 - Check the trackers as the tracker we created for our project (say **Book Meeting**) alone.
 - Check all the aforesaid custom Fields added and **Save**.

Book Meeting Room2

Search: Jump to a project...

Overview Activity Issues New Issue Gantt Calendar News Documents Wiki Files Settings

✓ Successful creation.

Settings

Information Modules Members Versions Issue categories Wiki Repository Forums Activities (time tracking) Code review

Name * Book Meeting Room2

Subproject of

Description **B** **I** **U** **C** **H1** **H2** **H3** **Code** **Pre** **BB** **Image** [Text formatting](#)

Identifier * bmr2

Homepage

Public ☐

Trackers

☐ Feature ☐ Support ☐ Task ☐ CodeReview

☐ Bug ☒ Book Meeting ☐ Suggestion

Custom fields

☒ Support Levels ☐ Assigned By ☒ Start Time ☒ End Time

☒ Meeting Room ☒ Meeting Day ☐ Severity ☐ Location

☐ Bug Severity ☐ private

Save

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- Now skip to the **Members** tab ,add the rooms(users) created to the Meeting room project and mark their role as *manager* to the project .

Home My page Projects Administration Help Book Meeting Room

Book Meeting Room2

Search: Jump to a project...

Overview Activity Issues New Issue Gantt Calendar News Documents Wiki Files Settings

✓ Successful update.

Settings

Information Modules Members Versions Issue categories Wiki Repository Forums Activities (time tracking) Code review

User / Group	Roles	
Infopark Main	Manager	Edit Delete
Infopark Medium	Manager	Edit Delete
Infopark Mini	Manager	Edit Delete

New member

Search for user or group:

vaz

☐ Praveesh Vazhiyodan

☒ Vazhuthacaud Main

Roles:

☒ Manager

☐ Developer

☐ Reporter

☐ Advanced-Devpr

☐ Requestor

☐ Tester

☐ CodeReviewer

☐ Intern

☐ Database Administrator

☐ Client

☐ Team Lead

☐ Tech Support Engineer

☐ Designer

Add

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- Save the project.

Edit **vendor/plugins/<PLUGIN NAME>/init.rb** file so that the link to the plug-in gets shown at the application menu and top menu on the top left part of the **Qbursts' Redmine home page** as **Book Meeting Room**.

The plug-in uses a [Fullcalendar](#) jQuery plug-in which uses ajax calls to fetch the events, which are the booked meeting rooms in Redmine by various employees in Qburst.

The calendar has a toggleable Week view and Day view on the top right corner; of which the Week view is the default.

The Week view has the span of the week written as the title along with the year.

There is also a **Go to** date picker to take the user to a future date he/she wants to take a quick view.

This also helps in reducing the clicks required to book a meeting room in some far future.

There is also a drop down, populated with all the meeting rooms available at the time, to select whichever room a user wants to book a room.

There is a quick jump **Today** button to take the user to the present day so that the status of a particular room for such a day could be viewed.

Both the Week view and Day view exhibit a time line from 09:00 to 21:00 with the aid of which a meeting room can be booked at various time slots between 08:30 to 22:00, avoiding an overlap.

Events could be booked also on a recurring basis. The available options are for one week and two weeks, in which case the meeting room goes occupied for the specified time range for one or two weeks as specified.

On the event of an overlap about to occur the calendar itself alerts the scheduler about the issue and in no case will it be possible to book an event ignoring the alert.

The meeting rooms are booked with the currently logged in user's authorship.

The main feature of the suggested plug-in is that knowing the Project Id and Issue tracker Id of the Book Meeting Project, the plug-in is stand alone in that no other files need to be edited in the actual project. The plug-in file goes into the **plugins** folder in **vendor** folder.

For easy realization of the situation, the title bars of rooms booked by the presently logged in user is made different in color while displaying along with the others(viz cyan and blue)

Besides booking, a meeting room can also be edited; only by the author of the room.

Hard Coded Values:

Issue Status =The Required Statuses (in index.html.erb line:31; give the appropriate id's).

Project Id =215 (in initialize constructor; in meeting_calendars_controller.rb line, line: 6).

Issue Tracker Id =9 (in initialize constructor; in meeting_calendars_controller.rb, line: 7).

- **The index values from the @custom_field (line 8) array for Start Time, End Time and Meeting Room (in meeting_calendars_controller.rb, lines: 9,10 and 11) and index values of Start Time, End Time, Meeting Room and Meeting Day from the rendered json(in meetingcalendar.js, lines: 52,53,54 and 55) are required.**
- **The Project Id and issue Tracker Id are exclusive for the current project and it is subject to variation upon future restoration of the Project.**

Meeting Rooms:

- *The meeting rooms are Users of the Book meeting Room Project with role as manager.*

Tracker Name:

- *Tracker name is “Book Meeting”.*
- *Tracker Id is obtained from the URI when the admin creates the new tracker exclusively for Book Meeting.*

Custom Fields:

- *Start Time [custom field value 3]*
- *End Time [custom field value 4]*
- *Meeting Room [custom field value 5]*
- *Meeting Day [custom field value 6]*
- *The custom field values are obtained from the URI at the time of its creation by Admin and it is subject to change on future restoration of the project.*