Plunner
Test Report document
Version 1.0

Date	Version	Description	Author
07/01/2016	1.0	Initial Version	Denis Kuryshov, Giorgio Pea

Table of Contents

1. Introduction

1.1 Purpose of the document

This document represents a report of the different tests made by the team behind the project “Plunner” of the Distributed Software Engineering course for the project itself. This team consists of students from both Politecnico di Milano and Mälardalen University.

1.2 Intended audience

The intended audience of the document consists in:

- The customer of the project
- The supervisors of the project
- The team of the project
- Any developer who will be interested in improving and implementing the project

1.3 Scope

This document aims to present the different tests made by the team in order to guarantee the quality of the final result and the respect of the established requirements for Plunner (see RDD). The below listed and explained series of tests has been done accordingly to the acceptance tests plan(ATP) and, as a consequence, taking in consideration all the requirements defined for the application.

1.4 Definitions and acronyms

Abbreviation,acronym, term	**Definition**
DSD	Distributed software development
FER	Faculty of Electrical Engineering and Computing, Zagreb, Croatia
MDH	Mälardalen University, Västerås, Sweden
POLIMI	Politecnico di Milano, Italy
RDD	Requirements Definition Document
Timeslot	An interval of time

RMU	Registration and managing of users
RMG	Registration and managing of groups
ATP	Acceptance Test Plan document

2. Manual tests

The following tests have been done manually by members of the team following the structure given by the ATP document, and aim to replace end to end tests

General tests

Test	T G.1
Test Name	Test empty fields or empty required fields of a form
Test Description	Test if trying to submit a form without filling any of its fields or at least one of its required fields produces errors that are signaled to the user
Prerequisite(s)	The application is installed and is running
Input Specification	The user clicks the button of the current view that submits the form in that view (usually the button with a blue background) without filling any of the form’s fields or without filling at least one of the form’s required fields
Output Specification	The fields that hold the non inserted data are outlined in red and below them a red error message appears prompting: “Insert a [data to be inserted in that field]”
Pass/Fail	PASS FOR EVERY VIEW

Test	T G.2
Test Name	Test invalid data inserted in a form view

Test Description	Test if trying to submit a form filled with invalid data produces errors that are signaled to the user
Prerequisite(s)	The application is installed and is running
Input Specification	The user clicks the button of the current view that submits the form in that view (usually the button with a blue background) having filled the form with invalid data
Output Specification	The fields that hold the invalid data are outlined in red and below them a red error message appears prompting: “Insert a valid [data to be inserted in that field] ”
Pass/Fail	PASS FOR EVERY VIEW

Test	T G.3
Test Name	Test popup opening
Test Description	Test if trying to click a button that is supposed to open a popup produces the opening of that popup and the popup has no error messages in it and, if it has a form, that form’s fields are all empty
Prerequisite(s)	The application is installed and is running and we are or in the context of a registered and logged organization or of a logged member
Input Specification	The user clicks a button that is supposed to open a popup
Output Specification	The popup that corresponds to the button mentioned above is open and is clear from error messages and all of its form fields, if it has a form, are empty
Pass/Fail	PASS FOR EVERY VIEW

Test	T G.4
Test Name	Test process dialogs
Test Description	Test if submitting a form or in general

	sending data actions produce a small dialog on the top of the page that signals to user the current operation with a word and a spinner (example: [spinner] Authorizing)
Prerequisite(s)	The application is installed and is running
Input Specification	The user clicks the button of the current view that submits the form in that view or click a button that performs a sending data action
Output Specification	A small dialog appears on the top of the page signaling to the user the current operation with a word and spinner (example: [spinner] Authorizing), and then the user is redirected to a page
Pass/Fail	PASS FOR EVERY VIEW

Acting as an organization/registered organization

→ **Login and Registration**

Test	T 1.1
Test Name	Login test non matching credentials
Test Description	Test if trying to login by entering non matching credentials (credentials that do not correspond to any registered organization) produces errors that are signaled to the organization
Prerequisite(s)	The application is installed and is running
Input Specification	The organization navigates to the organization sign in section of the website, inserts valid non matching credentials and clicks the “sign in” button
Output Specification	On the top of the “sign in” button a red error message appears prompting “These credentials do not match”
Pass/Fail	PASS

Test	T 1.2
Test Name	Login test matching credentials
Test Description	Test if trying to login by entering matching credentials (credentials that correspond to any registered organization) produces an authorizing popup and a redirect to the registered organization dashboard
Prerequisite(s)	The application is installed and is running
Input Specification	The organization navigates to the organization sign in section of the website, inserts valid matching credentials and clicks the “sign in” button
Output Specification	In the top of the page a popup with a spinner inside, and with the word “Authorizing” appears and the registered organization is redirected to its dashboard
Pass/Fail	PASS

For the organization registration the tests are the same as above but the website section involved is the organization sign up section, there are no credentials, instead we talk about registration information, the “sign in” button is replaced by the “SIGN UP” button and the popup mentioned in the test T.1.2 contains the word “Registering” instead of “Authorizing”

→ Registration and managing of users (RMU)

Test	T 2.1
Test Name	RMU test member creation
Test Description	Test if adding a member using the “add member” popup and valid non already in use credentials actually creates a new organization member that can be seen in the organization dashboard
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and of the “add member” popup

Input Specification	The organization fills the fields in the “add member” popup with valid non already in use credentials and clicks the add button
Output Specification	A popup with a spinner and the word “Adding” appears and then the organization can see in its dashboard the freshly created member. On the backend a new member has been added in db with the credentials inserted by the organization
Pass/Fail	PASS

Test	T 2.2
Test Name	RMU Test member information
Test Description	Test if all the members of an organization appear in the “members” section of the organization’s dashboard
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization
Input Specification	The organization navigates to the “members” section of its dashboard
Output Specification	Every member of the organization is listed with its name and the group it belogs to
Pass/Fail	PASS

Test	T 2.3
Test Name	RMU test member information detail
Test Description	Test if all the information of an organization’s member is displayed in the “member information detai”l section of the organization view
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization
Input Specification	The organization navigates to the

	“members” section of its dashboard, clicks the arrow in the tile relative to one of its members and is redirected to the “members infomation detail” section
Output Specification	In the above mentioned section the member’s name, email address and joined groups are shown
Pass/Fail	PASS

Test	T 2.4
Test Name	RM Test member deletion
Test Description	Test if the deletion of a member using the “delete member” button of the “member information detail” section in edit mode actually performs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and of the “member information detail section” in edit mode
Input Specification	The organization clicks the “delete member” button
Output Specification	A popup with a spinner and the word “Deleting member” appears and then the organization is redirected to its dashboard; here, in the “members” section, the deleted member is no more visible. The deleted member is no more present in the backend db
Pass/Fail	PASS

Test	T 2.5
Test Name	RM Test removing a member from a joined group
Test Description	Test if removing a member from a joined group using the links present in the “member information detail” section in edit mode actually performs the action

Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization in a “member information detail” section in edit mode
Input Specification	The organization clicks the “delete from group” link near a group joined by the member
Output Specification	A popup with a spinner and the word “Removing from group” appears, then the organization is returned to the “member information detail section”, here the left group does not appear anymore. In the organization dashboard the tile that corresponds to the member under analysis does not show anymore the left group and in the “group information detail” section relative to the left group the member mentioned above is not present anymore

Test	T 2.6
Test Name	RM Test editing a member information
Test Description	Test if editing a member information by using the “save changes” button in the “member infomation detail” section in edit mode actually permorfs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization in a member information detail section in edit mode
Input Specification	The organization edits the information of the member(name, email and password), using the fields that the “member information detail section” in edit mode shows, and clicks the save changes button
Output Specification	A popup with a spinner and the word “Saving changes” appears and then the organization is returned to the “member information detail” section, here the new information is visible. In the orgaization’s dashboard the tile that matched the member in analysis has been updated with the new data

→ Registration and managing of groups (RMG)

Test	T 3.1
Test Name	RMG test group creation
Test Description	Test if adding a group using the “add group” popup and valid non already in use credentials actually creates a new organization group that can be seen in the section “groups” of the dashboard organization
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and of the “add group” popup
Input Specification	The organization fills the fields in the “add group” popup with a non already in user name and with a description, selects at least one its members as components of the group and at least one of its members as planner of the group and clicks the “add” button
Output Specification	A popup with a spinner and the word “Adding group” appears and then the organization is redirected to its dashboard, here a tile that matches the freshly created group with its name, description and planner is now present. This information is also visible in the “group information detail section along with all the members of the group.
Pass/Fail	PASS

Test	T 3.2
Test Name	RMG test group deletion
Test Description	Test if the deltion of a group using the “delete group” button in the “group information detail” section in edit mode actually performs the action

Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and in the “group infomation detail” section in edit mode
Input Specification	The organization clicks the “delete group” button
Output Specification	A popup with a spinner and the word “Deleting group” appears and then the organization is redericted to its dashboard, here, in the “groups” section, the deleted group is no more visible
Pass/Fail	PASS

Test	T 3.3
Test Name	RMG test removing a member from a group
Test Description	Test if removing a member from a group using the trash icons near the group members listed in the “group information detail” section in edit mode, actually performs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and of the “group information detail” section in edit mode
Input Specification	The organization clicks the trash icon near a listed group member
Output Specification	A popup with a spinner and the word “Removing from group” appears and then the organization is returned to the “group information detail” section, here the removed group member is no more visible. In the organization’s dashboard, in the members section, the tile matching the removed member does not show anymore the group from which the member has been removed, the same is for the “member information detail” section

Test	T 3.4
Test Name	RMG Test editing group’s information
Test Description	Test if editing group’s information by using the “save changes” button in the “group information detail” section in edit mode, actually permorfs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and of the “group information detail” section in edit mode
Input Specification	The organization edits the information of the group, using the fields that the “group information detail” section in edit mode shows, and clicks the “save changes” button
Output Specification	A popup with a spinner and the word “Save changes” ppears and then the organization is returned to the “group information detail” section, here the infomation visible has changed accordingly to edits of the organization; the same thing is valid for the tile that matches the group in the organization’s dashboard under the “groups” section

Test	T 3.5
Test Name	RMG Test planner change
Test Description	Test if changing a planner of a group using the “change planner” popup, actually performs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and of the “change planner” popup accessible from the “group information detail” section
Input Specification	The organization selects a new member as a planner using the list of members provided and clicks the “change” button
Output Specification	A popup with a spinner and the word

	“Saving changes” appears and then the organizaziot is returned to the “group information detail” section. In this section the newly selected planner is visible, the same thing is valid for the tile that matches the group in the organization’s dashboard under the “groups” section

Test	T 3.6
Test Name	RMG Test adding members to a group
Test Description	Test if adding members to a group via the “add to group” popup actually performs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged registered organization and of the “add to group” popup accessible from the “group information detail” section
Input Specification	The organization selects the members it wants to add to the group using the list of members provided and clicks the “add” button
Output Specification	A popup with a spinner and the word “Adding members” appears and then the organizazion is returned to the “group information detail” section. In this section the new members are visible. In the organization’s dashboard, under the “members” sections, the tiles that match the added members show the group’s name; this is also valid for the “member information detail” section

Acting as a member

-> Import schedule and manage them

Test	T 4.1
Test Name	ISM test importing a schedule using caldav with correct existing credentials

Test Description	Test if importing a schedule from an external service based on CalDav, providing correct existing calDav credentials using the “import schedule” popup actually performs that action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member and of the “import schedule popup”
Input Specification	The members inserts correct caldav credentials (username, password, caldav url) clicks the “get calendars” button and select at least one of the listed caldav calendars
Output Specification	A popup with a spinner and the word “Importing schedule” appears and then the member is returned to its dashboard, here the tile that matches the imported schedule is now visible with its information(name, state, sync-datetime), this information is also displayed in the “edit imported schedule” popup

Test	T 4.2
Test Name	ISM test importing a schedule using caldav with non existing or incorrect credentials
Test Description	Test if importing a schedule from an external service based on CalDav, providing non existing or incorrect calDav credentials using the “import schedule” popup produces errors that are signaled to the member
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member and of the “import schedule popup”
Input Specification	The members inserts non existing or incorrecy caldav credentials (username, password, caldav url) clicks the “get calendars” button
Output Specification	No calendar is listed in the popup and an error message in red appear signaling to the member the error

Test	T 4.3
Test Name	ISM test editing imported schedule with correct or existing caldav credentials
Test Description	Test if editing an imported schedule using the “edit imported schedule” popup actually performs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member and of the “edit imported schedule” popup
Input Specification	The members changes the plunner name of the schedule, the caldav name of the schedule, the caldav credentials and the state of the schedule(enabled/disabled)
Output Specification	A popup with a spinner and the word “Saving changes” appears and then the member is returned to its dashboard, here the tile that matches the imported schedule shows the updated information, this information is also displayed in the “edit imported schedule” popup

Test	T 4.4
Test Name	ISM test editing imported schedule with incorrect or non existing caldav credentials
Test Description	Test if editing an imported schedule using the “edit imported schedule” popup with incorrect or non existing caldav credentials actually performs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member and of the “edit imported schedule” popup
Input Specification	The members changes the plunner name of the schedule, the caldav name of the schedule, the caldav credentials and the state of the schedule(enabled/disabled). The new caldav credentials inserted are incorrect or non existing
Output Specification	A popup with a spinner and the word

	“Saving changes” appears and then the member is returned to “edit imported schedule” popup, here an error message is shown to the member

Test	T 4.5
Test Name	ISM test imported schedule deletion
Test Description	Test if deleting an imported schedule using the “edit imported schedule” actually performs the action
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member and of the “edit imported schedule” popup
Input Specification	The member clicks the “delete schedule button”
Output Specification	A popup with a spinner and the word “Deleting schedule” appears and then the member is returned to its dashboard, here no tile matches the deleted schedule

Test	T 4.5
Test Name	ISM test imported schedule synchronization
Test Description	Test if an imported schedule is actually synched with the caldav service it refers to
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member
Input Specification	An imported schedule k is edited in the context of its related caldav service
Output Specification	In the member’s dashboard, under the section “schedules” the tile that matches the schedule k shows a new synch timestamp taking in consideration that the synch is done by Plunner every 10mins

Test	T 4.5
Test Name	ISM test imported schedule synchronization
Test Description	Test if an imported schedule is actually synched with the caldav service it refers to
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member
Input Specification	An imported schedule k is edited in the context of its related caldav service
Output Specification	In the member’s dashboard, under the section “schedules” the tile that matches the schedule k shows a new synch timestamp taking in consideration that the synch is done by Plunner every 10mins

-> composing a schedule

Test	T 4.5
Test Name	Compo
Test Description	Test if an imported schedule is actually synched with the caldav service it refers to
Prerequisite(s)	The application is installed and is running, we are in the context of a logged member
Input Specification	An imported schedule k is edited in the context of its related caldav service
Output Specification	In the member’s dashboard, under the section “schedules” the tile that matches the schedule k shows a new synch timestamp taking in consideration that the synch is done by Plunner every 10mins

3. Unit tests and other tests

The unit tests represent tests in which project modules work together with the data, procedures and functions. The aim of unit tests is to show that determine things are fit for use.

The list of tests below shows the ones which were performed by DSD group.
A short brief for several tests is made to clarify not very understandable tests.

A demonstration of tests on GitHub with Travis CI reported after the description.

Acting as an employee

1. Auth
    1.1. Login
    1.2. ErrorLogin
    1.3. ResetPassword
    1.4. ErrorResetPassword
    1.5. ThrottlesLogins
    1.6. NoThrottlesLogins
2. Calendars
    2.1. Calendars
        2.1.1. Create
        2.1.2. Delete
        2.1.3. UpdateNoCaldav
        2.1.4. Show
        2.1.5. ShowNotMine
        2.1.6. CreateCaldav
        2.1.7. UpdateCaldav
        2.1.8. GetExternalCalendars
        2.1.9. Index
        2.1.10. ErrorIndex
    2.2. TImeslots
        2.2.1. Create
        2.2.2. Delete
        2.2.3. Update
        2.2.4. Show
        2.2.5. ShowNotMine
        2.2.6. AllIndex
        2.2.7. CurrentIndex
        2.2.8. ErrorIndex
3. Employee
    3.1. Index
    3.2. ErrorIndex
    3.3. Update
4. Groups
    4.1. Show
    4.2. ShowGroupNotInTheSameCompany
    4.3. Index
    4.4. ErrorIndex
5. Meetings
    5.1. Show
    5.2. ShowGroupNotInTheSameCompany
    5.3. Index
    5.4. IndexCurrent
    5.5. ErrorIndex
6. Planners

6.1. Groups

6.1.1. Show
6.1.2. ShowGroupNotManagedByMe
6.1.3. Index
6.1.4. IndexCurrent
6.1.5. ErrorIndex

6.2. Meeting Timeslots

6.2.1. EmployeeViewIndex
6.2.2. GetNonPlannerInAGroup
6.2.3. Show
6.2.4. EmployeeViewShow
6.2.5. Create
6.2.6. PlannedCreate
6.2.7. EmployeeCreate
6.2.8. Update
6.2.9. EmployeeUpdate
6.2.10. Destroy
6.2.11. PlannedDestroy
6.2.12. EmployeeDestroy
6.2.13. Index

6.3. Meetings

6.3.1. CreateMeeting
6.3.2. IndexAllMeetings
6.3.3. IndexCurrent
6.3.4. ErrorIndexNoMeetings
6.3.5. ShowMeeting
6.3.6. ShowNonExistingMeeting
6.3.7. ShowOtherGroupsMeeting
6.3.8. PlannerDeleteMeeting
6.3.9. EmployeeDeleteMeeting
6.3.10. GetNonPlannerInAGroup
6.3.11. DeleteNonExistingMeeting
6.3.12. DeleteOtherGroupsMeeting
6.3.13. UpdateExistingMeeting
6.3.14. UpdatingOtherGroupsMeeting

Test title and ID	**Description**
1.5 ThrottlesLogins	Tryinng to perform several wrong logins after 5 times, user is not able to perform other login
2.1.3 UpdateNoCaldav	Update no CalDAV calendar
2.1.8 GetExternalCalendars	Getting the external calendars from CalDAV and etc.

2.2.5 ShowNotMine	Trying to show not-belong-to-a-user timeslots
4.2 ShowGroupNotInTheSameCompany	Showing a group not in the same comapny returns 403
6.1.2 ShowGroupNotManagedByMe	Being a planner and trying to be see a group not managed by the planner returns 403
6.2.10 Destroy	Deleting timeslots, meetings and a group

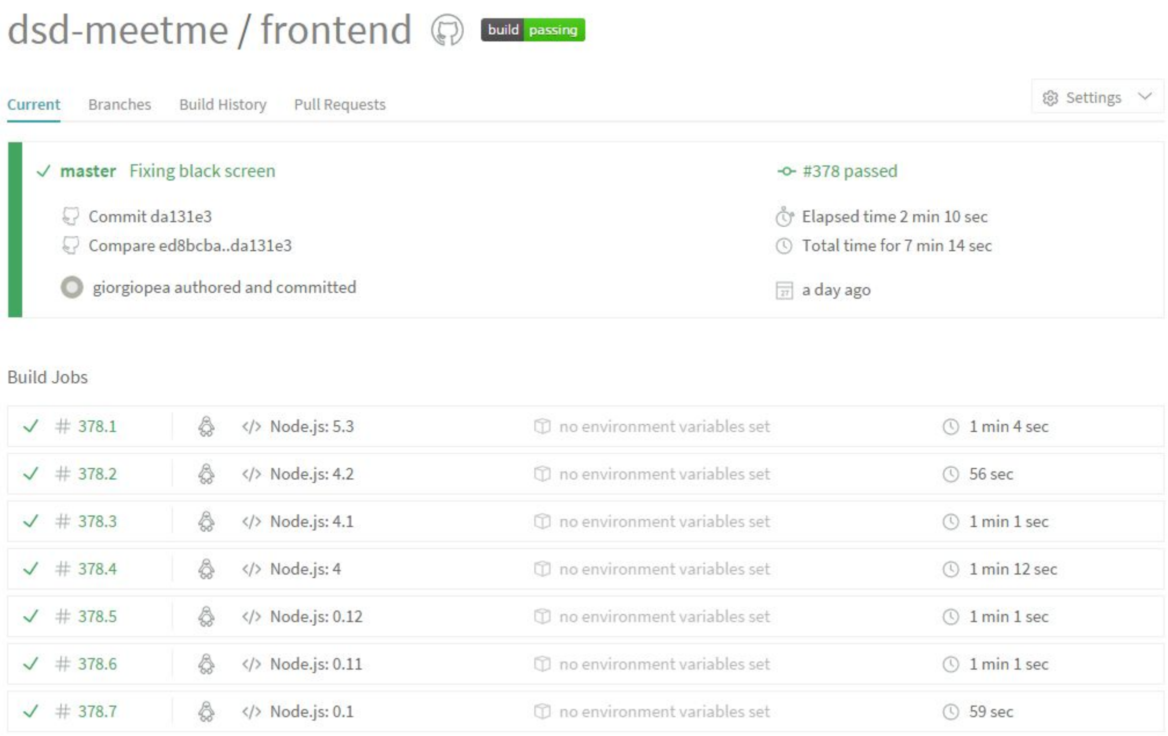
Acting as a company

1. Auth
    1.1. NewCompany
    1.2. ErrorNewCompany
    1.3. Login
    1.4. ErrorLogin
    1.5. ResetPassword
    1.6. ErrorResetPassword
    1.7. ThrottlesLogins
    1.8. NoThrottlesLogins
2. Company
    2.1. Index
    2.2. ErrorIndex
    2.3. Update
3. Employees
    3.1. Show
    3.2. Create
    3.3. SameEmailDifferentCompany
    3.4. Delete
    3.5. DeleteNotMine
    3.6. Update
    3.7. Index
    3.8. ErrorIndex
4. Groups
    4.1. Employees
        4.1.1. OkStore
        4.1.2. Store422
        4.1.3. Store403
        4.1.4. Delete
        4.1.5. DeleteEmployeeNotMine
        4.1.6. DeleteGroupNotMine
        4.1.7. Delete404
        4.1.8. Index
        4.1.9. ErrorIndex
    4.2. Groups
        4.2.1. IndexAllGroups
        4.2.2. ErrorIndexNoCompany
        4.2.3. ShowSpecificGroup
        4.2.4. TryToShowOtherCompaniesGroup
        4.2.5. CreateNewGroup
        4.2.6. CreateDuplicateGroup
        4.2.7. SameGroupDataDifferentCompanies
        4.2.8. ErrorCreateGroup
        4.2.9. Delete
        4.2.10. DeleteNotMine
        4.2.11. Update

Test title and ID	Description
4.1.1 OkStore	Successful request
4.1.2 Store422	Semantic errors during the request

Here is the demonstration of the “Plunner” due to Travis CI:

For the frontend:



dsd-meetme / frontend build passing

✓ master Fixing black screen

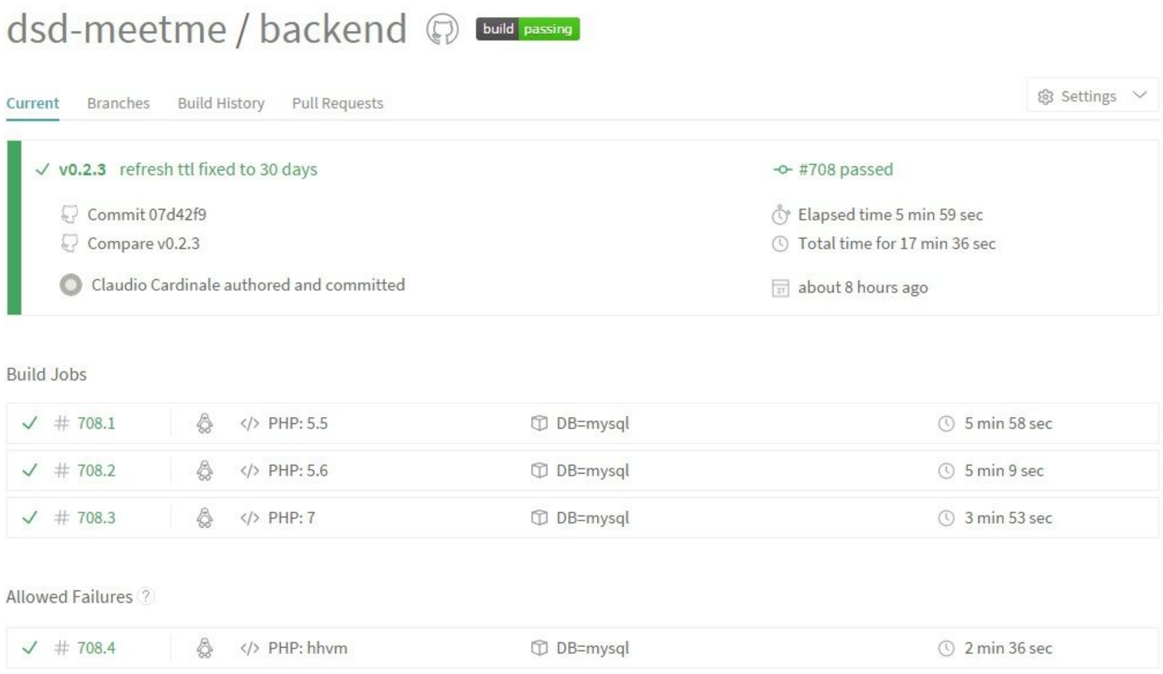
Commit da131e3
Compare ed8bcba..da131e3
giorgiopea authored and committed

#378 passed
Elapsed time 2 min 10 sec
Total time for 7 min 14 sec
a day ago

Build Jobs

✓	# 378.1	Node.js: 5.3	no environment variables set	1 min 4 sec
✓	# 378.2	Node.js: 4.2	no environment variables set	56 sec
✓	# 378.3	Node.js: 4.1	no environment variables set	1 min 1 sec
✓	# 378.4	Node.js: 4	no environment variables set	1 min 12 sec
✓	# 378.5	Node.js: 0.12	no environment variables set	1 min 1 sec
✓	# 378.6	Node.js: 0.11	no environment variables set	1 min 1 sec
✓	# 378.7	Node.js: 0.1	no environment variables set	59 sec

For the backend:



dsd-meetme / backend

✓ v0.2.3 refresh ttl fixed to 30 days

Commit 07d42f9

Compare v0.2.3

Claudio Cardinale authored and committed

#708 passed

Elapsed time 5 min 59 sec

Total time for 17 min 36 sec

about 8 hours ago

Build Jobs

✓	# 708.1	PHP: 5.5	DB=mysql	5 min 58 sec
✓	# 708.2	PHP: 5.6	DB=mysql	5 min 9 sec
✓	# 708.3	PHP: 7	DB=mysql	3 min 53 sec

Allowed Failures ?

✓	# 708.4	PHP: hhvm	DB=mysql	2 min 36 sec

All tests were successful and the team achieved requirements which were supposed to be done.