

Workshop #1

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Subject: OOP

Workshop #1

Functional Requirements

User Management (The program must:)

- Be able to register new users.
- Be able to log in registered users.
- Allow modification of user data.

Activity and Event Registration (The program must:)

- Allow the user to create an event.
- Allow the user to set: event date, name, and a brief description.
- Display the created event in their calendar.
- Allow the user to create a task list.
- Allow the user to set: task name, estimated completion date, subject or topic of the task, and its status (completed or not).
- Display pending tasks as “Tasks” in their calendar.

Event Planning

Upon registration, the user has access to the creation of 2 calendars:

- The first titled “Personal” (only contains their created events).
- The second shows only the tasks they created, but in the calendar, as “pending.”

Database Connectivity

- The user can have more than one task list and can choose which one to import into their calendar (only one can be viewed at a time).
- When the user registers an event in the calendar, it must also be viewable outside of it, in the events section.

Data Sharing

- The user can share their calendars with other people.
- When sharing a calendar, the receiving users can only view it; they cannot modify it.

Non-Functional Requirements

Performance

- The application must support at least 5 users simultaneously.
- Event creation must take less than 5 seconds.
- Task list creation must take less than 5 seconds.
- Importing a database must not take more than 10 seconds.

Security

- All user passwords must remain confidential.
- Usernames will only be visible when the user decides to share one of their calendars.

Availability

The software must be available 99% of the time; that is, it should remain online at all times.

Usability

- The system interface must be intuitive and allow a new user to design their task list or calendar easily.
- Calendars must be in a simple format, without complicating the reading or understanding of dates or data.
- Lists must be as dynamic as possible, avoiding excessive information and visual overload.
- The color scheme of the interface must be optimal to prevent user eye strain.

Maintainability

- The code must be documented according to the organization's standards.
- The system must be designed in a modular way to facilitate future updates.

User Stories

Title	Priority	User Story	Acceptance Criteria
User Register	High	As a new user I want to register in the application so that I can start making my activities.	Given I enter for the first time, when I fill in the form and submit it, then my account is created.
Login	High	As a user I want to log in with my credentials so that I can access my calendars and tasks.	Given I already have an account, when I enter a valid email and password, then I access the application.
Event Creation	High	As a user I want to create an event with date, name, and description so that I can organize my activities.	Given I am in my calendar, when I click "create event" and fill in the data, then the event appears on the selected date.
Task List within Event	High	As a user I want to create a task list within an event so that I can track specific subtasks.	Given I already have an event created, when I add tasks and statuses (pending/done), then I see the progress inside the event.

Pending Tasks View	High	As a user I want to see all my pending tasks in a single list so that I know what I still need to do.	Given I have multiple events with tasks, when I open the “pending” view, then the list appears organized by date.
Event Modification	High	As a user I want to edit the name or date of an event so that I can fix it without creating a new one.	Given I have an existing event, when I change its data and save, then the event is updated.
Share Calendar	Low	As a user I want to share my calendar with other users so that they can view my activities.	Given I already have events created, when I select “share” and enter an email, then the other user gets read-only access.

CRC Cards

Class	Responsibilities	Collaborators
User	Log in, Sign in; Assign tasks; Store profile data; Manage preferences	Task, Notification, Progress statistic, Check list, Register
Notification	Notify the user; Inform about the expiration of an event	User, Task, Calendar
Progress Statistic	Create daily, weekly and monthly statistics; Show tasks missing progress; Show task percentage completed	User, Task, Check list, Calendar, Notification

Check List	Show the status of a task's completion; Show the task's specific data (date, category, name, etc.); Mark tasks as completed	User, Task, Progress Statistic
Calendar	Show tasks/events general data in daily, weekly, and monthly view; Synchronize with time zone; Update in real time	User, Task, Check list, Notification, Progress statistic
Tasks	Save all the information about a task; Allow to edit or eliminate a task; Define recurrence if repetitive	User, Task, Notifications, Progress statistics
Register	Receive and validate data from registration form; Create the User entity in database	User, Notification

Mockups

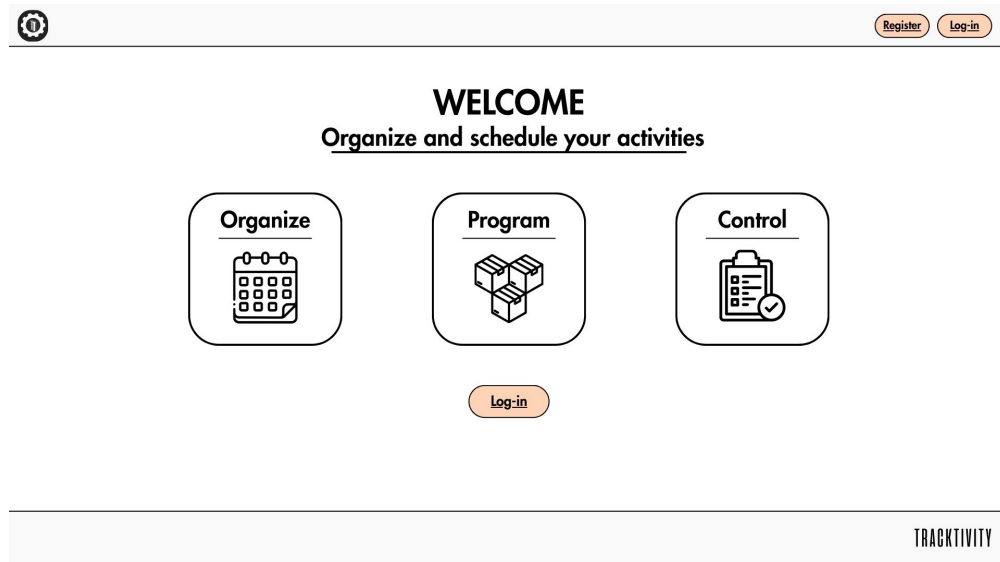


Figure 1

Mockup 1

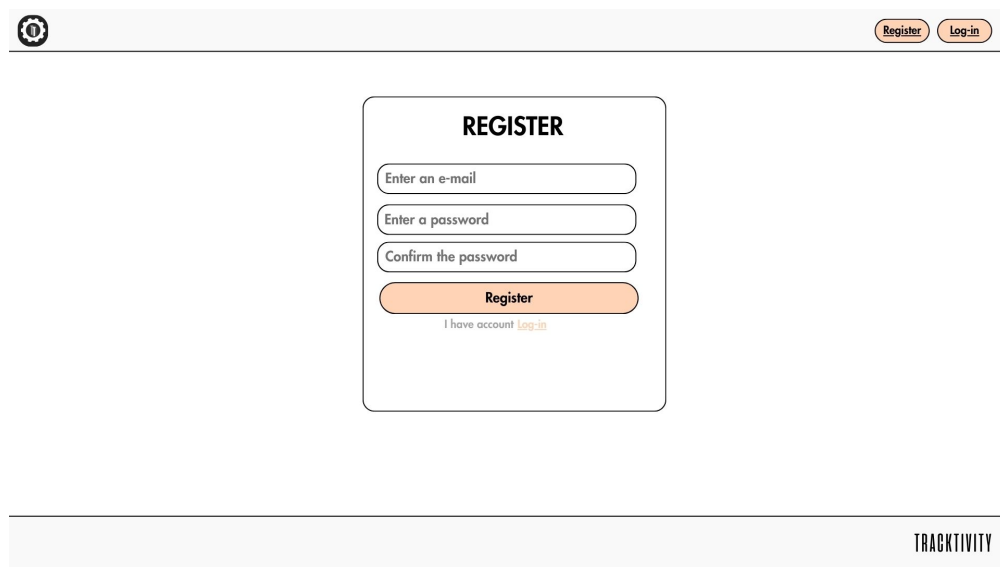
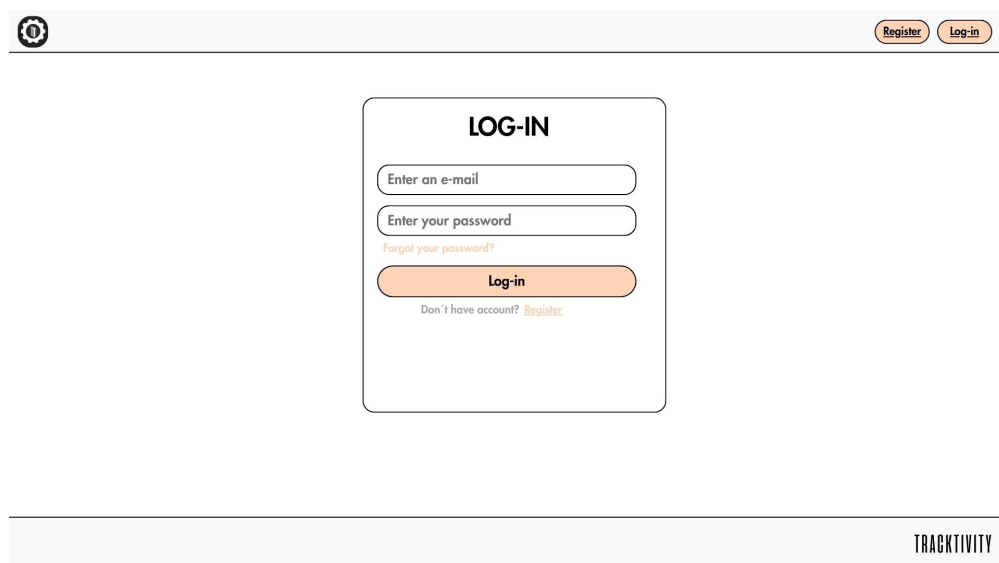


Figure 2

Mockup 2



LOG-IN

Enter an e-mail

Enter your password

[Forgot your password?](#)

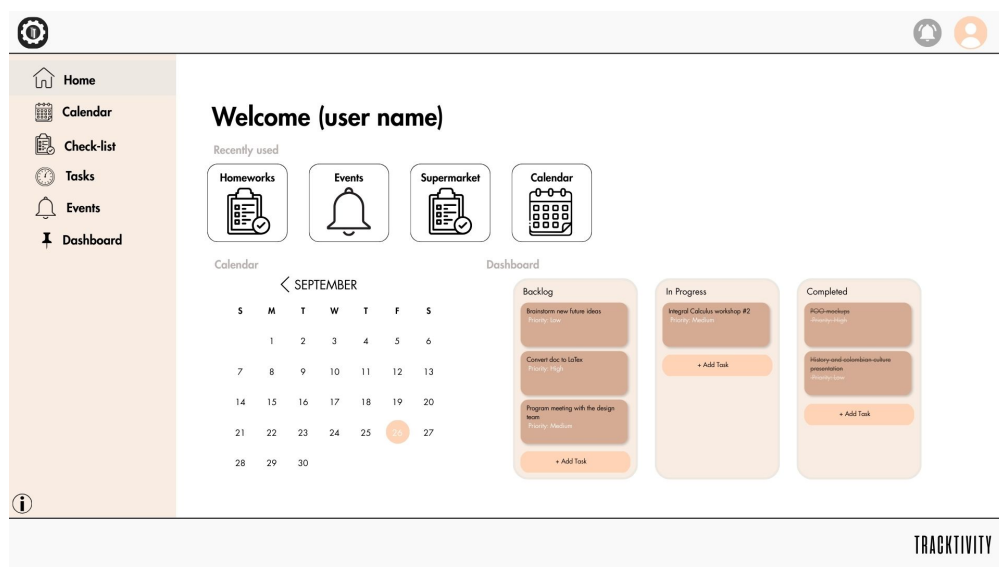
Log-in

Don't have account? [Register](#)

TRACKTIVITY

Figure 3

Mockup 3



Welcome (user name)

Recently used

Homeworks Events Supermarket Calendar

Calendar

< SEPTEMBER

S	M	T	W	T	F	S
	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	29	30				

Dashboard

Backlog

- Brainstorm new future ideas
Priority: Low
- Convert doc to latex
Priority: High
- Program meeting with the design team
Priority: Medium
- + Add Task

In Progress

- Integral Calculus workshop #2
Priority: Medium
- + Add Task

Completed

- POG meetings
Priority: High
- History and evolution culture presentation
Priority: Low
- + Add Task

TRACKTIVITY

Figure 4

Mockup 4

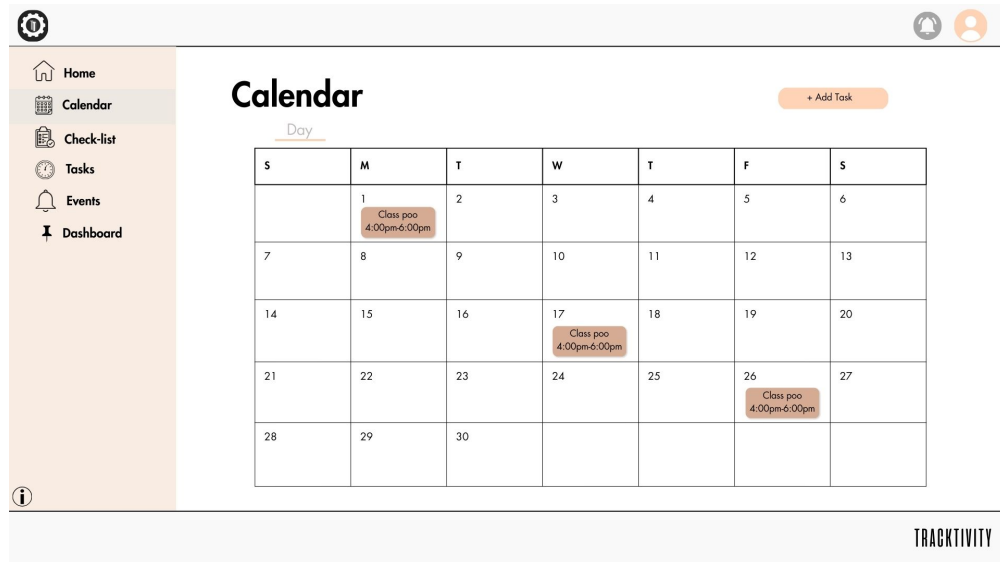


Figure 5

Mockup 5

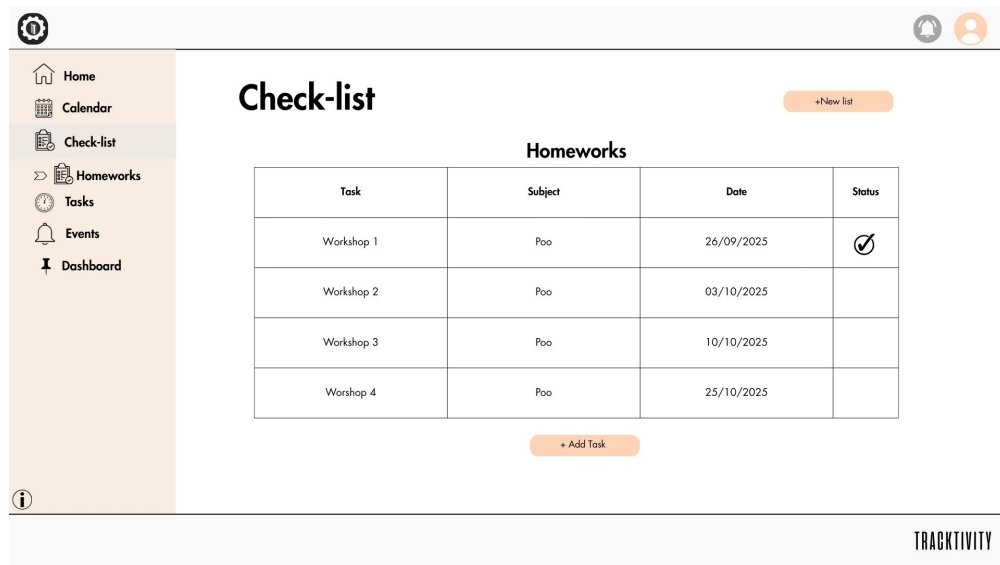


Figure 6

Mockup 6

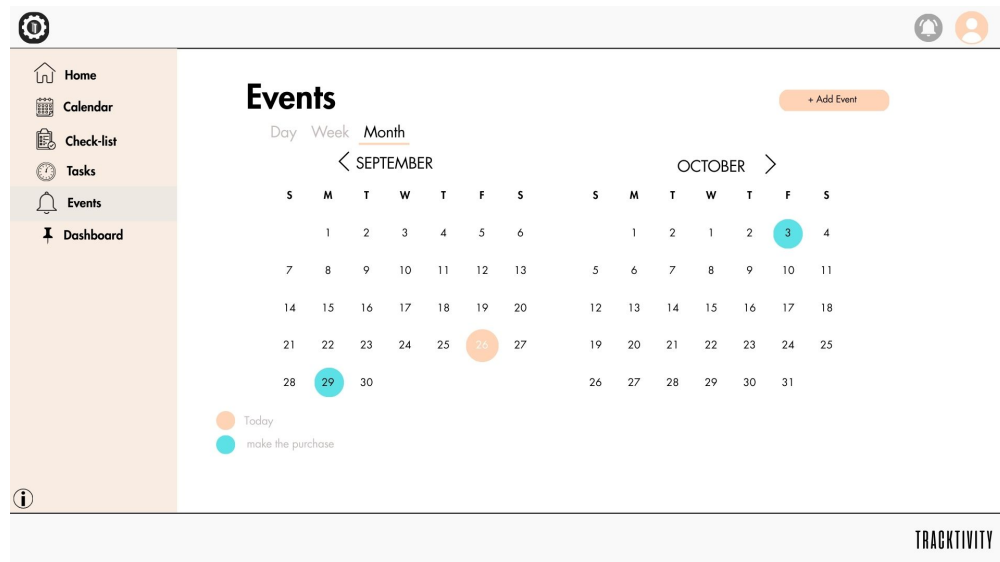


Figure 7

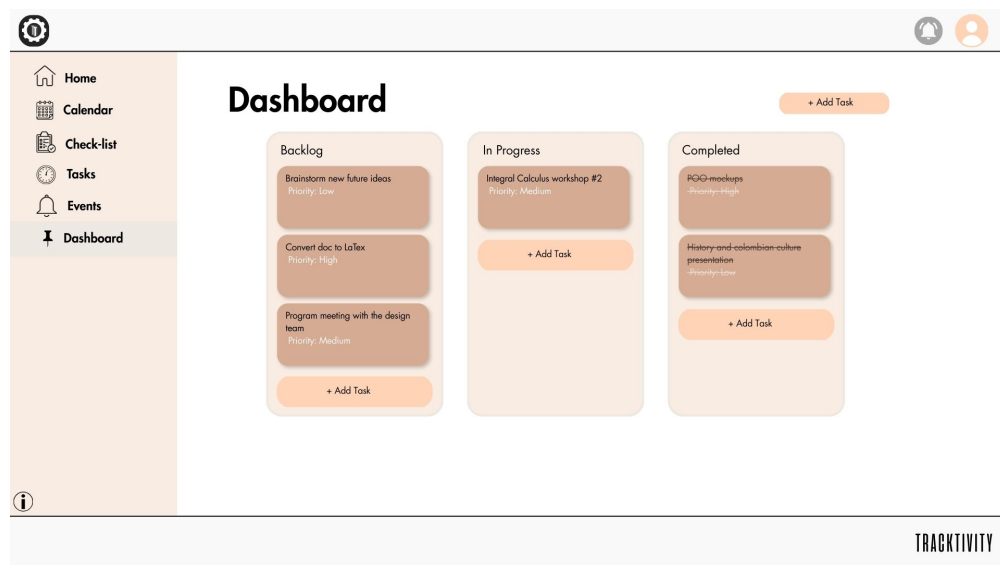
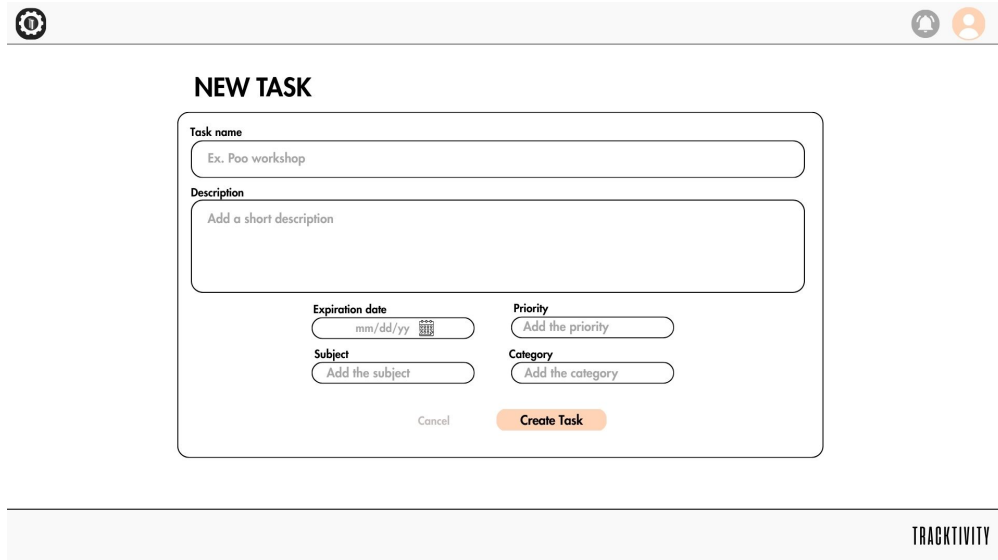
Mockup 7

Figure 8

Mockup 8



NEW TASK

Task name
Ex. Poo workshop

Description
Add a short description

Expiration date
mm/dd/yy

Priority
Add the priority

Subject
Add the subject

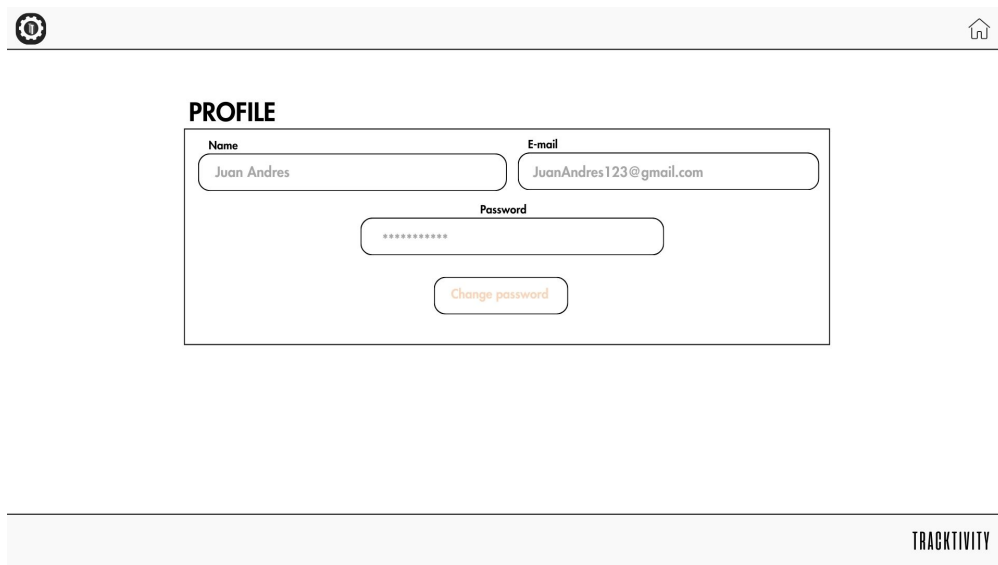
Category
Add the category

Cancel Create Task

TRACKTIVITY

Figure 9

Mockup 9



PROFILE

Name
Juan Andres

E-mail
JuanAndres123@gmail.com

Password

Change password

TRACKTIVITY

Figure 10

Mockup 10