

TaskMasters

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Project Domain

In this era of technology, internal communication among employees within the company often falls short of efficiency. There are few applications that can collect project information, assign tasks, and show stats of the project effectively.

Software Specification



- We are able to build an organization, which can set associated project and users.
- We are able to register users, which have an identification message and bios.
- We are able to build a project, which can set the leader and associated members. Todo-list and Messageboard can be used among groups.
- We are able to create todo-lists, which contains several todos. All todo-list will be included in todoSet, which is a panel to manage Todo-lists. Every members of the todo-list will be notify. Leader can create and distribute todos to certain members.
- For message board, we create the message. You can also comment asides the message, comments will have author and the content.
- We can create schedules, every members can know daliy tasks. Each tasks will have a start time and end time, and also, every crews involved will be notify. Every members can also add some private tasks in their schedule.



Matthew, as a newcomer to this computer science company, wants to have more convenient communication with his colleagues and managers and quickly catch up with his company's project.



Tony is a leader of one project. He is concerned about how to manage stuff in his project. He runs the program and checks what activities happened on his project. He adds some TODOs about what are they going to do today and assigns each of them to a project member. In this way, he saves time and effort, since he doesn't need to tell them one by one.



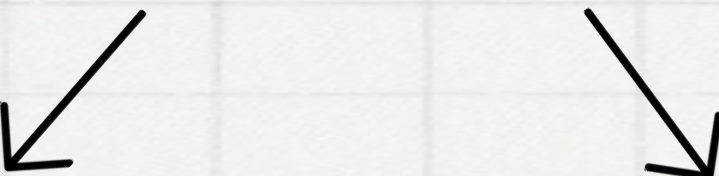
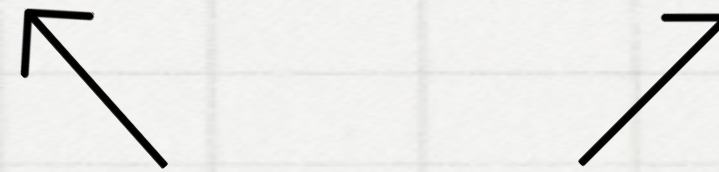
Bob is a leader of one project. His project often has an online office requirement because of the worldwide business they handle. Every morning he opens the user interface and adds TODOs for their colleagues. As the official communication software, all crews may have their talks for work there.



Kenneth, as a business owner, has a lot of employees to manage, as well as countless projects needed to accomplish. He can create his own organization and invite his own employees through our program. He can also create projects and select leaders to oversee their progress. He agrees that this app helps to manage his company.



Alice is an HR manager in the company. She has a lot of employees to manage. If there is any new employee, she can create a new user and allocate him to a existing organization or project, then message his team leader and give him a TODO list.



User Story

Entities for the Domain

Organization

- int ID
- User owner
- Map<Integer, Project> project_set
- Map<Integer, User> members

User

- int ID
- Organization Organ
- String name
- String password
- String email
- String bios

Project

- int ID
- String name
- User leader
- Map<Integer, User> members
- ToDoSet toDoSet
- MessageBoard messageBoard
- Schedule schedule

TodoPanel

- int ID
- Map<Integer, ToDoList> lists

ToDoList

- int ID
- String name
- String detail
- Map<Integer, ToDo> toDos

ToDo

- int ID
- String target
- User[] assignedTo

Schedule

- int ID
- List<Event> events

MessageBoard:

- int ID
- Map<Integer, Message> Messages

Message

- int ID
- User author
- String content
- Map<Integer, Comment> comments

Comment

- int ID
- User author
- String content

Event

- int ID
- String name
- String notes
- Date startsAt
- Date endsAt
- boolean is AllDay
- List<User> userWith

The API we used


<https://github.com/basecamp/bc3-api>


basecamp/**bc3-api**

API documentation for Basecamp 4




 33
Contributors

 0
Issues

 470
Stars

 111
Forks



The background is a light blue grid. It is decorated with various hand-drawn blue doodles. At the top, there are several loops and swirls. On the right side, there are some vertical lines and a small star-like shape. At the bottom, there are more loops, a wavy line, and some small 'v' shapes.

**Thank you
very much!**