

Task List Organizer

Stakeholders

- User: Any person that uses the task-list organizer
- Admin: A person that manages the server

Terminology

- Board: section of the task-list organizer that contains a collection of lists.
- Lists: collection of cards.
- Card: task.

Epics

MINIMAL APPLICATION

As a user, I want...

- No registration, so that I never have to make an account or login when I want to use the app.
 - There is no registration page.
- To be able to see a board from multiple devices at the same time, so that I can share the board with my friends.
 - Boards are stored on the server.
 - Every time a board is opened, it loads the board from the server.
- To be able to see the changes made from one tab appear on another, possibly on another device, in real time, so that I and others can work together.
 - Every change made by a user is immediately stored on the server.
 - Whenever the contents of a board are updated on the server, it automatically updates the board for every other user that is viewing the page.
- To drag and drop tasks between lists, so that I can easily and intuitively organize my board.
 - Using the mouse you can click and hold to drag a card around the board.
 - If the user is dragging a card, releasing the mouse button causes the card to a position in the task list near the cursor if that exists.
- To add, remove and edit cards and lists, so that I can use the task organizer for anything I want.
 - There is a button for each task list to append a card at the bottom.
 - There exists some way for the user to change the contents of a card.
 - Each card can be removed individually using a button.

As an admin, I want...

- To stop and start the server without losing boards and their contents, so that I can update the application without having to manually do a backup.
 - Boards are stored in the database on shutdown.
- Boards to be continually saved, so that in the event of a crash boards and their contents are always stored safely such that they return when the application is started again.
 - Changes to boards are updated in the database whenever they occur.

MULTI BOARD

As a user, I want...

- To access boards by inputting their name/key, for easier management of multiple task boards.
 - There should be a key input tab when the app is opened
 - Wrong key input should result in a new board creation inquiry
- To create and delete my own boards, to prevent me from having too many useless boards filled with already done tasks.
 - There should be a board creation button in the board and key input tab
 - There should be a board creation tab that the button leads to and that can be accessed from the main page.
 - The board creation tab should have a field for the board key
 - There should be a board deletion button in the board tab
- To be able to add a title to my board that is independent of the key, so that I can easily see what a board is about and prevent key clashes (if the title wasn't independent of the key).
 - There should be a title edition/addition button on the board tab
 - The board creation tab should have a field with the board title

ADVANCED CARDS

As a user, I want...

- To create detailed cards.
 - Cards contain a description
 - Cards contain additional cards within them
- To be able to edit detailed cards, so that I don't need to first remove and then add them again.
 - Cards should have an edit-button
- To put a visible time limit on a task, so that I see the wanted deadline.
 - Each card when it has a deadline, it displays it in a block inside/next to the card.
- To get notified before the deadline of a certain task by pop-up, so that I don't forget to do it.
 - There should be a pop-up notification/alert appearing on the screen to remind about
- To create cards with numerical goals, to track quantitative tasks.

- Cards have a certain number of goals.
 - Cards have a number of progress.
- To have numerical cards change color based on my progress, for better readability.
 - Cards change color when you begin a task.
 - Cards change color when you progress in a task.
 - Cards change color when you finish a task.

PASSWORD PROTECTION

As a user, I want...

- To be able to protect my boards with a password, making them read-only for users that don't know it.
 - There should be a password-protected option that one can check during board creation, which will establish whether the board is password protected
 - One should be able to set the password of a password-protected board during board creation and re-set it in the board tab
 - Password-protected boards are view-only without a password
 - Password-protected boards can be edited and have their title, key and password changed if accessed with the correct password

TAG SUPPORT

- To create tags and append them to cards, so I can group multiple cards related to each other.
 - There should be a button next to each card to add an existing/new tag to it, existing ones should be listed on the board.
- To customize the colors of each of the tags, to make them more distinguishable.
 - The tags have an option to choose a color, which makes the tag a certain color.

CUSTOMIZATION

As a user, I want...

- To customize the background color of the board, lists, and tasks to make any board more visually appealing.
 - There should be a variety of color options to choose from while editing, either through a toggle, or color wheel or just predetermined color buttons.
- To customize my board by changing its background to an image, so that I can make it even more visually appealing.
 - There should be an option to choose a background image for a board while editing it.

KEYBOARD SHORTCUTS

As a user, I want...

- To perform basic app actions using keyboard shortcuts, so I can have a much faster/practical experience.
 - Some keyboard combinations trigger actions.

QUALITY OF LIFE FUNCTIONALITIES

As a user, I want...

- To be able to set a main board on a particular device, so that when I open the app, I don't have to enter a key and password.
 - Use some kind of cookie to remember what board the user last opened.
 - Open the same board the user last opened.
- that I need to confirm closing the application, so I do not accidentally close the window and drop out of the app.
 - Pop-up window for confirmation.
- To get a Telegram/WhatsApp notification on a chosen task so that I don't forget about the task.
 - Connect to a bot that can send messages through WhatsApp.
 - Bot has access to the board and sends notifications to the users connected to the bot.

ADMIN PRIVILEGES

As an admin, I want...

- To be able to login using a secret admin board so I can manage the application.
 - Access a board that will transfer me to the admin page
- To be able to see a list of all boards so I have an overview of the user base.
 - Have an admin page where admins can do admin stuff.
- To be able to edit all boards so I can manage the user base effectively.
 - Have admin access to all boards.

Mock(TBD)