

Installation

Go to courseProject folder and type following commands all necessary packages:

“npm run preinstall”

“npm run install”

In courseProject folder, run following commands in separate terminals:

“npm dev:client”

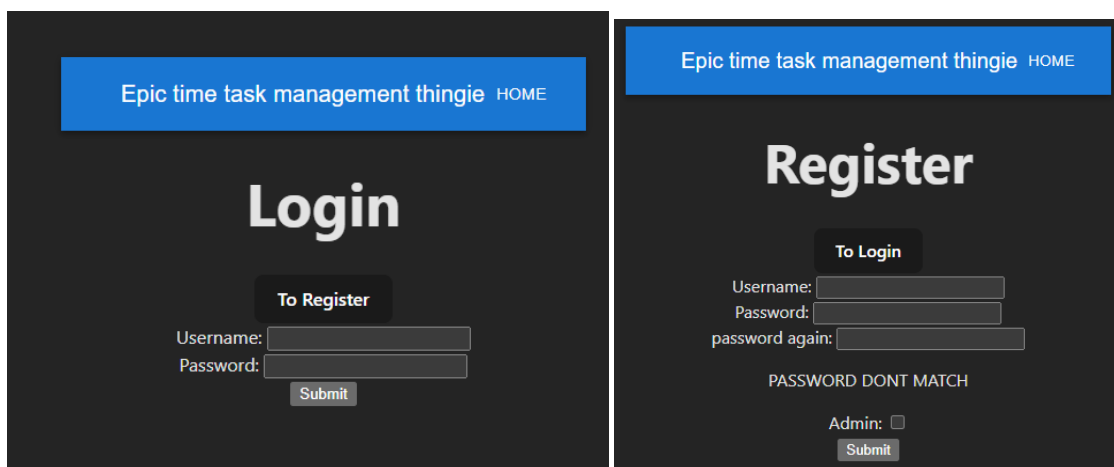
“npm dev:server”

Now you should have client running at port:3000 and server running at port:1234.

Open a browser and open http://localhost:3000/

User guide:

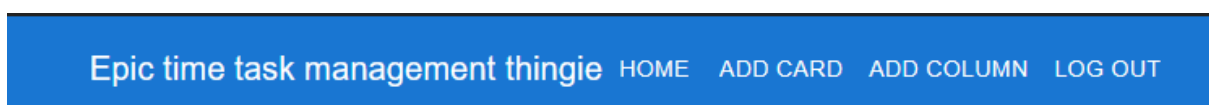
First user has access only to login/register. There's a button to register instead of login



The image shows two side-by-side screenshots of a web application interface. The left screenshot is the 'Login' page, featuring a blue header with the text 'Epic time task management thingie HOME'. Below the header, the word 'Login' is prominently displayed. There is a 'To Register' button and a form with 'Username:' and 'Password:' labels, each followed by an input field, and a 'Submit' button. The right screenshot is the 'Register' page, also with the same blue header. It features the word 'Register' prominently. There is a 'To Login' button and a form with 'Username:', 'Password:', and 'password again:' labels, each followed by an input field, and a 'Submit' button. Below the form, the text 'PASSWORD DONT MATCH' is visible. At the bottom of the form, there is an 'Admin:' checkbox and another 'Submit' button.

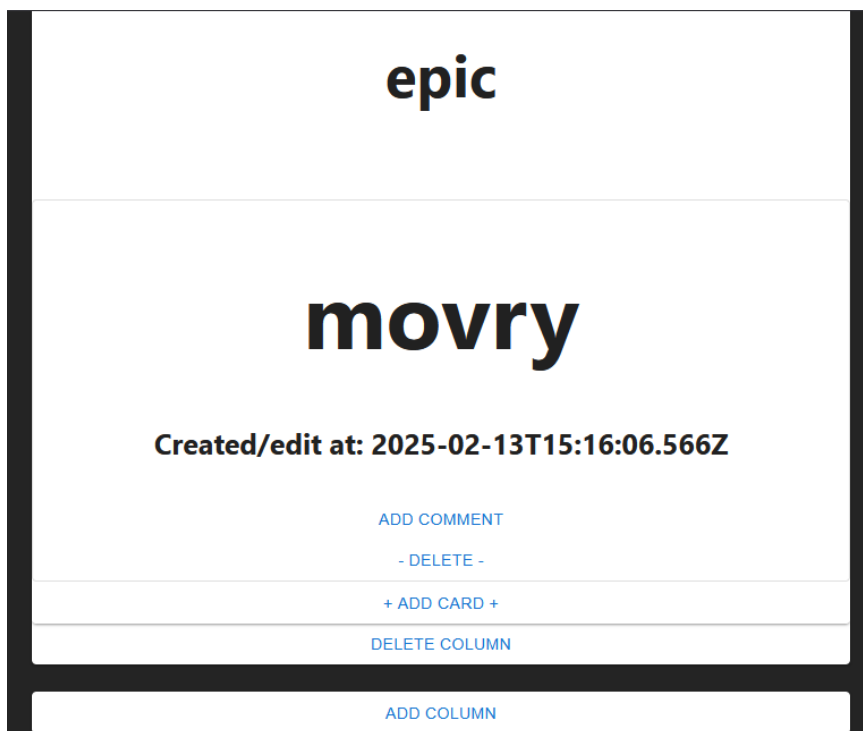
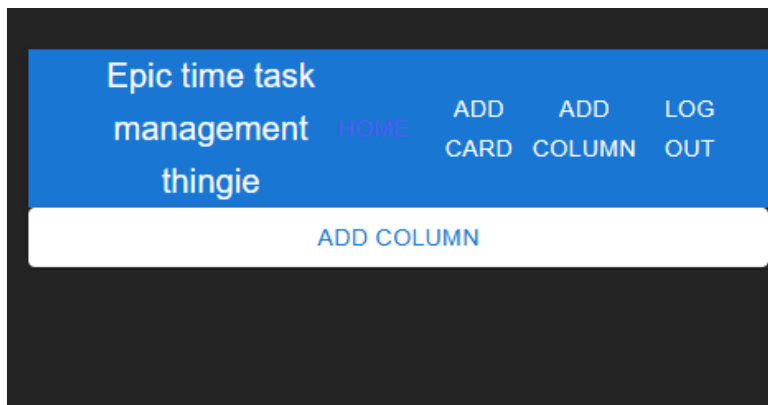
User needs to login or register to gain access to other parts of the application via session token. In register user can choose to be an admin account. The user needs to put password twice correctly to make an account

After gaining session token user is sent to their kanban view. There they can add column on their board by pressing “add column”. On the navigation bar are buttons home, add column, add card, logout and admin view if user is an admin. On the console user gets fetch errors 403 if they aren't admin which is caused by navigation bar checking if user is an admin which is used to tell should user see the admin view button.



The image shows a blue navigation bar with the text 'Epic time task management thingie' followed by the links 'HOME', 'ADD CARD', 'ADD COLUMN', and 'LOG OUT'.

Cards page:



First as user opens the page, it has only add column button, which when pressed, ask a name for the column.

A form for adding a new column. It has a title "Add a new column" in black. Below the title, there is a label "Name:" followed by a text input field. The input field is currently empty. Below the input field, there is a button labeled "Lähetä" in white on a dark background.

A new column has options to add card and to delete a column. Double clicking column name gives a option to rename the column. When deleting a column, it deletes all cards attached to it, which deletes all comments attached to those cards.

new column

+ ADD CARD +

DELETE COLUMN

Adding a card inside a column gives the following view. It is identical to add card view expect you can't choose the column where you add your card as it is the column where you chose to click add card. Empty rows aren't visible in kanban thus leaving them empty doesn't cause useless space on the board. Colour should be given in hex format, if input is not in hex format, the colour will be white as default.

Add a new card

Name:

Text:

Status:

Estimated time to complete (in hours):

Time used to this (in hours):

Colour (in hex):

Lähetä

Example input:

Add a new card

Name:

Text:

Status:

Estimated time to complete (in hours):

Time used to this (in hours):

Colour (in hex):

Lähetä

new card's name

status

epic text

Time to complete: 1001 h

Time spend: 100 h

Created/edit at: 2025-02-13T15:36:00.754Z

A card has buttons add comment and delete. Card text can be double click to edit it.

Add a comment card

Your comment:

Lähetä

Comment shows the comment, who send it and a timestamp when it was created and edited:

Comment: epic comment

By: phone

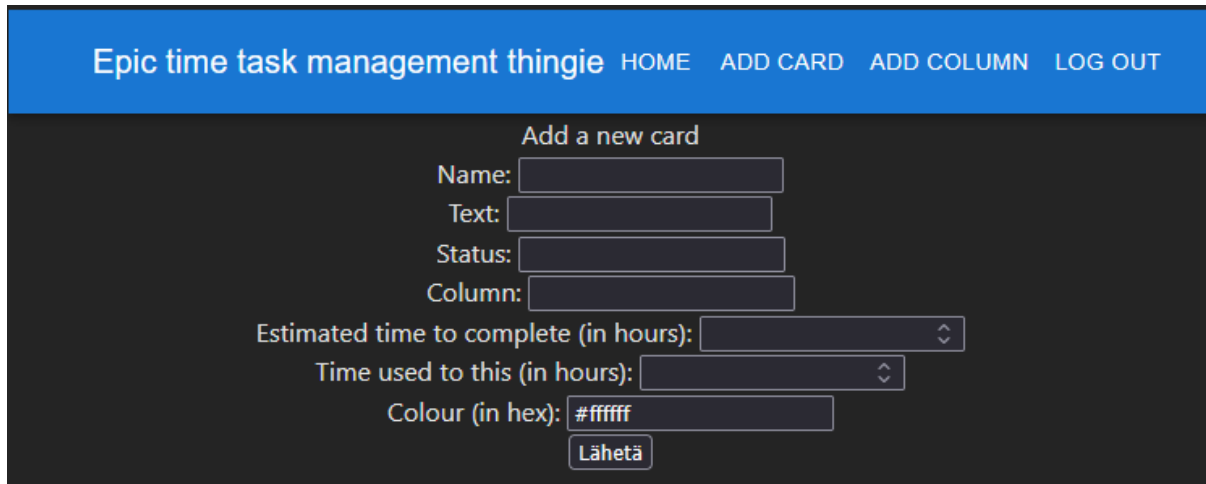
created/edited at: 2025-02-13T15:37:53.321Z

Cards can be moved inside a column and across columns by drag and drop method. At top of each column and above each card is a box where when hovering a card spawns a drop box where card can be dropped to move it.

All elements (column, cards, and comments) can be modified through double clicking

User can itself delete columns and cards, only an admin can delete comments

Add card page:

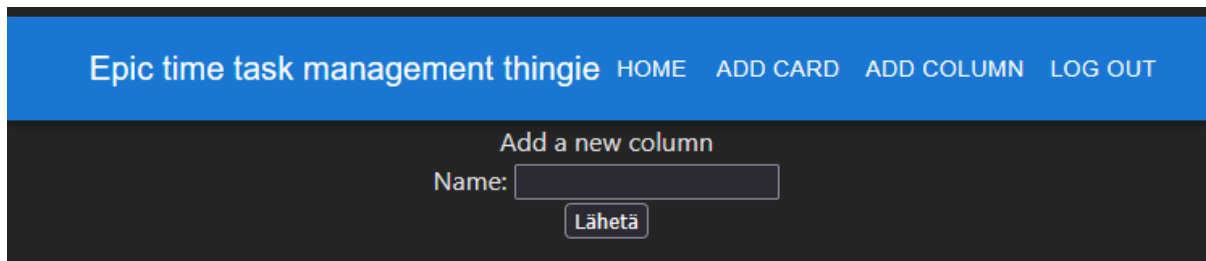


The screenshot shows a web application interface with a blue header bar containing the text "Epic time task management thingie" and navigation links: "HOME", "ADD CARD", "ADD COLUMN", and "LOG OUT". Below the header, on a dark background, is a form titled "Add a new card". The form contains the following fields and controls:

- Name:
- Text:
- Status:
- Column:
- Estimated time to complete (in hours):
- Time used to this (in hours):
- Colour (in hex):
- A "Lähetä" (Submit) button.

Here user can add a card to any column clearly and without other stuff being visible. Only required text is the column name where the card is presented in cards view. The website tells user if the column doesn't exist. Empty rows aren't visible in kanban thus leaving them empty doesn't cause useless space on the board. Colour should be given in hex format, if input is not in hex format, the colour will be white as default.

Add column page:



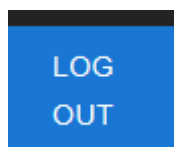
The screenshot shows the same web application interface as before, but with the "Add a new column" form displayed. The form is titled "Add a new column" and contains:

- Name:
- A "Lähetä" (Submit) button.

Here user can add a column clearly and without other stuff being visible. Nothing more.

Log out:

Clicking logout button deletes session token and forwards user to login/register view.



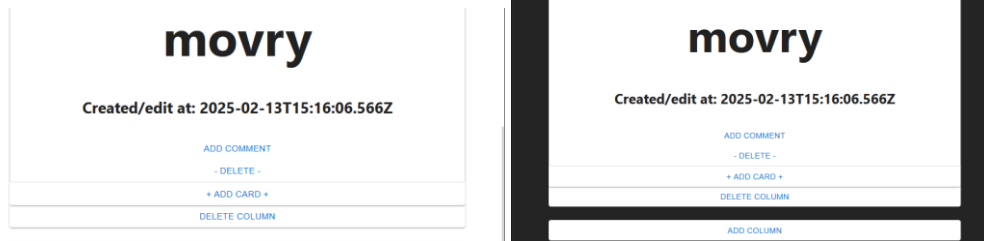
Admin view (only for admins):

Admin can see all users, column, cards, and comment individually without attachments. Edit columns, card and comments with double click and delete all users, column, cards, and comments.

Technical info:

Tested in brave, firefox, opera gx, chrome. Tested with brave's and firefox responsive dimensions tool (works with 150x200 sized screen and scales properly).

Works both in dark and light mode of the browser:



Technical choises:

Drag and Drop feature is done with react-dnd since it was the first drag and drop library found when I googled “react drag and drop”.

All other technologies are used during the course thus I used them due to familiarity.

MongoDB as database,

Bcrypt as encryption tool

Express... and so on.

Features as a list

| Name | Desc | Points request |
|----------------------|--|----------------|
| Node.js | Implementation of backend with Node.js | Mandatory |
| MongoDB | Utilization of database (MongoDB) | Mandatory |
| Authentication | Users have to have an option to register and login (JWT), Only authenticated users can see, add or remove columns or cards | Mandatory |
| Columns | Add/remove/rename columns to/of their own board | Mandatory |
| Cards | Add/move/remove cards on/of their own board. | Mandatory |
| Logout | Logout (when in possession of session token, even if invalid) | Mandatory |
| Login/register | Non-authenticated users can register and login | Mandatory |
| Responsive design | The app needs to be usable with mobile devices and desktop browsers | Mandatory |
| Documentation | Installation guide, user manual, technology choises, feature list | Mandatory |
| Basic features | All stated mandatory and well written documentation | 25 |
| React | React framework used for client side application | 3 |
| Drag and drop | Cards can be reordered with drag and drop | 2 |
| Colours | User can set the colour of a card | 1 |
| Admin view | There is an admin account that can see all the users, all the boards and can remove or update them | 3 |
| Double click to edit | User has the option just to double click any edible content (like header or card description) and edit it | 4 |

| | | |
|------------------------------|--|----|
| Comments | Cards can have comments in them, one or many | 3 |
| Time Stamps | Cards and comments have visible timestamps when they have been created and updated | 4 |
| Estimated time | Cards have estimated time, when the work is done | 1 |
| Time spend | User is able to register the time she has spend with the task/card | 1 |
| Bonus point | Early submission | 1 |
| Total Points here | | 48 |
| | | |
| Own features | | |
| | | |
| Special admin view | Every element in admin view is separate | 1 |
| Recursive deleting | Deleting a card deletes all comments attached to it. columns delete all cards attach to it which deletes the comments. deleting a user deletes all columns attached to it which deletes cards and then comments. | 2 |
| No useless fields or buttons | Admin view button isn't visible for non admin users, column field isn't visible when adding a card straight into a column, non logged in user can't see other buttons than home. | 1 |
| | | |