# Express.js Exam – Let’s build Messenger

# Exam rules:

* You have 6 hours – from 16:00 to 22:00
* When you are ready, delete the *node\_modules* folder, make sure all dependencies are listed in the *package.json* file and submit your archived project at <https://softuni.bg/trainings/1642/expressjs-fundamentals-may-2017>
* There will be no breaks during the exam but you can go to the toilet or to breathe some fresh air outside **if you are alone**
* If you have any questions for the following description – ask the trainer, he is @ the back of the room
* Have fun! ☺

## Route / (20 Points)

Create a Node.js web server which is capable of returning an “index.html” file containing a welcome message and menu. Add register, login and logout (only when logged in). On the top of page below the menu there should be a search input where you can search for other registered users in order to start a chat with them. Below that show all threads the currently logged user participates in. The newest ones should be on top. Visible to authorized users. If the user is not authorized, show a welcome message.

## Route /thread/{username} (20 Points)

This route should show all messages between the currently logged in user and the user with the username from the route. Make sure people cannot send messages to themselves. The newest messages should be on the bottom (like a chat). Make some differentiation between the users. For example use different colors.

## Add messages form (20 Points)

Add form below all messages allowing the currently logged in user to send a message to the current thread. Validate messages – they should not contain more than 1000 symbols.

## Allow users to send links and images (15 Points)

If the message contains only a link (and nothing else), make it clickable and open it in another browser tab. Consider links to be valid if they start with “http” or “https”. Also - if the message contains only a link (and nothing else), and this link ends with “jpg”, “jpeg” or “png”, show the actual image.

## Allow users to block other users (15 Points)

If someone does not like you – they should be able to block you. Disable the form for blocked users but leave the chat history (if any). Also – allow users to remove blocks.

## Add likes (again…) (10 Points)

Allow users to like other messages (like the Facebook Messenger reactions). Show some sort of indication that someone liked your message. Also – add option do remove the like.

**OTHER REQUIREMENTS**

* Use Node.js as a web server
* Use MongoDB as a database storage
* Use Express.js as a routing framework
* Follow the standard - <https://github.com/feross/standard>
* You may use whatever frameworks you like