

## Javascript 4: Exercises

Set up an html page and link a javascript file to it with the script tag.  
Add gson to the maven project dependencies.

### Ajax calls

1. Create a small application that can provide a quote of the hour
  - a. Make a button in your html
  - b. In your script file add event listener to the buttons click event and pass a callback that will update a div tag in the html with a new quote.
  - c. The quote must come from a servlet that provides a random quote
  - d. Use `fetch()` method to get the quote.
  - e. Change the functionality to get a new quote every hour.
    - i. Hint: use [setInterval\(\)](#)
2. Create a small application that can generate a list of people and show them in an html table
  - a. On the server – create a list of Person objekter.
  - b. Use gson library (the gson object) to create a json string from a person object.
  - c. When the user clicks a button a new person should be loaded from the server
  - d. Add a registration form so that the user can add himself to the personlist of the application
  - e. User the `fetch('url', {method: 'post', body....})` method to send the data to the server and add the person

HINT: make the server side list static (otherwise a new list will be created for each request).
3. Create a component in your html that will show the time.
  - a. Create a method that will request the server for a new time each second so that the clock is showing the actual time in hours, minutes and seconds
  - b. Use the `fetch()` method to get the data
4. HTML5 and inline SVG
  - a. Download the file: `fourHearts.svg`, and copy the content into the clipboard.
  - b. Create a new html-file, and paste the content into the body.
  - c. Add event handlers, so that pressing each of the hearts will write the message North, South, East or West respectively.

