Help to complete the tasks of this exercise can be found on the chapters from ch. 10 “Connecting Views with Templates” and ch. 11 “Configurations and Error Handling” of our course book “Get Programming with Node.js” by Jonathan Wexler. The aims of the exercise are to learn use templates in implementing views to learn, and to handle errors.

Embed your theory answers, drawings, codes and screenshots directly into this document. Always immediately after the relevant question. Return the document in ItsLearning by the deadline.

It’s also recommendable to use Internet sources to supplement the information provided by the course book.

The maximum number of points you can earn from this exercise is 10.

1. Explain the following concepts (2 points):
   1. A template (0,5 points)

“It allows you to code your views with the ability to insert dynamic data”.

You can also share the view with multiple pages, so you do not have to code it every time.

* 1. A templating engine (0,5 points)

It is an engine that converts normal JS into HTML with the help of EJS extensions. This does require HTML and JS to have EJS tags.

* 1. An application layout (0,5 points)

It is template of pages that is rendered on pages.

* 1. A partial (0,5 points)

Partial is a snippet of code that is used to share view content.

1. Browse through the web page at <https://expressjs.com/en/api.html#app.set> and answer the following questions (1 point):
   1. For what is the app.set(name, value) function used for? (0,5 points)

You can use app.set to setup certain settings for site, such as title.

* 1. How do you identify an error handling middleware? (0,5 points)

Error-handling in the middleware always uses four arguments.

1. Implement the project express\_templates according to the listings 10-1 to 10-4 given in the course book’s chapter 10. Make certain that you pass your name in JavaScript object from the controller operation respondWithName to your index view. Create also the partial navigation and use it. (2 points)
2. Move the css from the html head of the file layout.ejs to an external file (Take a look at the code provided with the book). Where do you save this file? Create necessary sub folders and changes into code. Test that the application is still presented as earlier. (2 points)
3. Install nodemon and modify your package.json so that you can start your application with nodemon by writing a command npm start. (1 point)
4. Create custom error messages according to the instructions given in the listings of in the chapter 11 of your course book. To make it a bit more challenging, modify the controller operation names and the error messages. (2 points)