**National University of Computer and Emerging Sciences**



**Lab Exercise 11**

*for*

# Web Programming

# Spring 2024

**FAST School of Computer Science**

# LABORATORY OUTCOMES

The practical/exercises in this section are psychomotor domain Learning Outcomes (i.e. subcomponents of the COs), to be developed and assessed to lead to the attainment of the competency.

This Course is designed to take the students full adventure of “**Full Stack Web Development**.”

**Today’s Agenda**

Module 1: ExpressJS.

Web APIs:

* <https://www.w3schools.com/js/js_api_intro.asp>

Express JS:

* Middlewares
* Nested Routes
* Import and export userdefined modules
* <https://expressjs.com/en/starter/hello-world.html>
* <https://expressjs.com/en/guide/writing-middleware.html>
* <https://expressjs.com/en/guide/using-middleware.html>
* <https://expressjs.com/en/guide/routing.html>

Commands to initialize your project and install express are:

* npm init -y
* npm install express

**You are done with your exercise(s), make your submission on Classroom.**

**BEST WISHES**

**References**

*W3Schools free online web tutorials*. Choose a Bootstrap Version (3, 4 or 5). (n.d.). Retrieved February 22, 2022, from <https://www.w3schools.com/bootstrap/bootstrap_ver.asp>

JavaScript tutorial. (n.d.). Retrieved February 22, 2022, from <https://www.w3schools.com/js/default.asp>