Exercise Student handout

**JavaScript**

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# Introduction

This document is a specification for the exercise problems for the topic, Introduction to JavaScript. It tests the student's level of knowledge and understanding of the topic.

This document consists of a set of problems that the student needs to solve and submit to the trainer, in the format specified in the Deliverable section of this document.

This exercise is to be performed only after the theory and workshop sessions of the topic, hence the student would have enough knowledge and confidence on the topic. Ideally, the student should be able to solve the problems himself/herself; however, he/she can seek the assistance of the trainer or lab assistant in case he/she is stuck with a specific problem.

# Objectives

The objectives of this exercise are to test the student's understanding and knowledge on the topic, and to allow him to re-iterate his understanding by applying that knowledge in a software problem, so that he can use it in the further Programming endeavors.

This exercise is based on an e-commerce website. It should include the following features implemented in JavaScript:

Signup Form:

Users should be able to enter their details to sign up for the application.

The form should have validation to ensure all required fields are correctly filled out.

Login Form:

Users can log in to the site using their username and password.

The form should have validation to ensure the login details are correctly entered.

Shopping Cart:

Customers can add products to their cart.

The cart should display the count of items, which increments each time a product is added.

**Features to be developed**

**The JavaScript which contains**

* Functions and Scope
* Variables, datatypes, and Operators
* Arrays and Objects
* Control Flows and Loops
* Form validation

# Deliverable

1. The entire program should be developed in a web based application delivered as a git hub link.

# Demo

The student should demonstrate the program to the instructor on a PC, by explaining the features one by one.

# Conclusion

The completion of this exercise should re-iterate the student's confidence on Basic JavaScript .Please make sure you have gained enough confidence to move on.