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Assessment Task – Portfolio (A 6)

Web Programming

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# Project Analysis

## Purpose of website and required functionality

The purpose of this website is to provide a means to administer user details. Specifically, their full name and their email address.

To achieve this purpose, the site must provide the ability to add new users and to list all current users.

## Functional Design and Architectural requirements

* Add user page
  + Will accept:
    - Name
    - Email
  + Information to be stored in a database
  + Data validation:
    - Name: regex => “[a-zA-Z]+([ ‘-]?[a-zA-Z]+)\*”
    - Email: syntax ~><name>@<domain>
      * <name>: ”[a-zA-Z]+(\.[a-zA-Z0-9]+)\*”
      * <domain>: ”[a-z]+[0-9]\* (\.[a-z]+)\*”
* Show all users page:
  + Display all the users created

### Architectural requirements

The Membership website must include navigation of:

* Add a user
* Show all users

## Prototype of Website UI Design

Graphical user interface, text, email

Description automatically generated

Figure 1 - Home page

Graphical user interface

Description automatically generated

Figure 2 - Add User page

Graphical user interface, application

Description automatically generated

Figure 3 - List Users page

Graphical user interface, text

Description automatically generated

Figure 4 - About page

Graphical user interface, text, application

Description automatically generated

Figure 5 - License page

## Target system of this application

This application is targeted at any operating system/hardware configuration that provides a web server that runs PHP/HTML 5.

Suggested system:

* Hardware:
  + Intel I5 CPU
  + 8 Gb RAM
  + 1Tb storage (HDD/SSD)
  + Fast network connection hardware (WiFi/Cable)
* Operating system:
  + Linux – Fedora v34+
* Software:
  + Apache v9+
  + PHP v8+

## The data storage design

* Database: HumanResources
  + Table: Users
    - Fields:
      * Id: integer, auto increment
      * LastName: string, 30 characters
      * FirstName: string, 30 characters
      * Email: string, 60 characters
    - Indexes:
      * ID\_index: unique, primary key
      * Name\_index: LastName (asc), FirstName (asc)

# Run Website

Table : Run results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Case | Description | Expected | Actual | Evidence |
| #1 | Connect to “Random Integer Report” using Firefox on Linux | Display Bar Chart page | As expected | Figure 1  Figure 2 |
| #2 | Change colours and refresh page | Display new Bar Chart page | As expected | Figure 3  Figure 4 |
| #3 | Connect to “Random Integer Report” using Firefox on Linux | Display each quote, one at a time | As expected | Figure 5  Figure 6 |

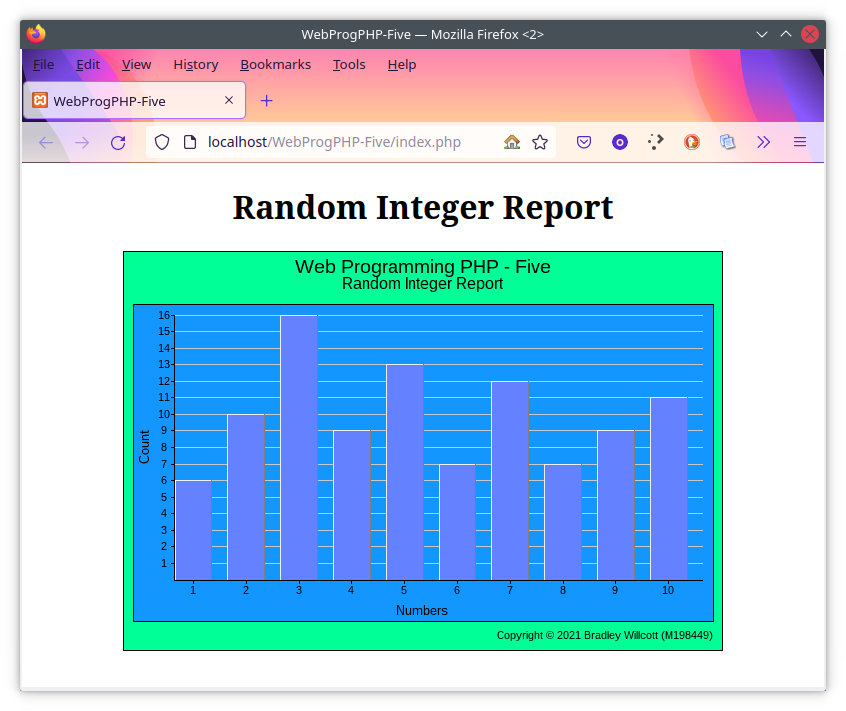


Figure – Random Integer Report

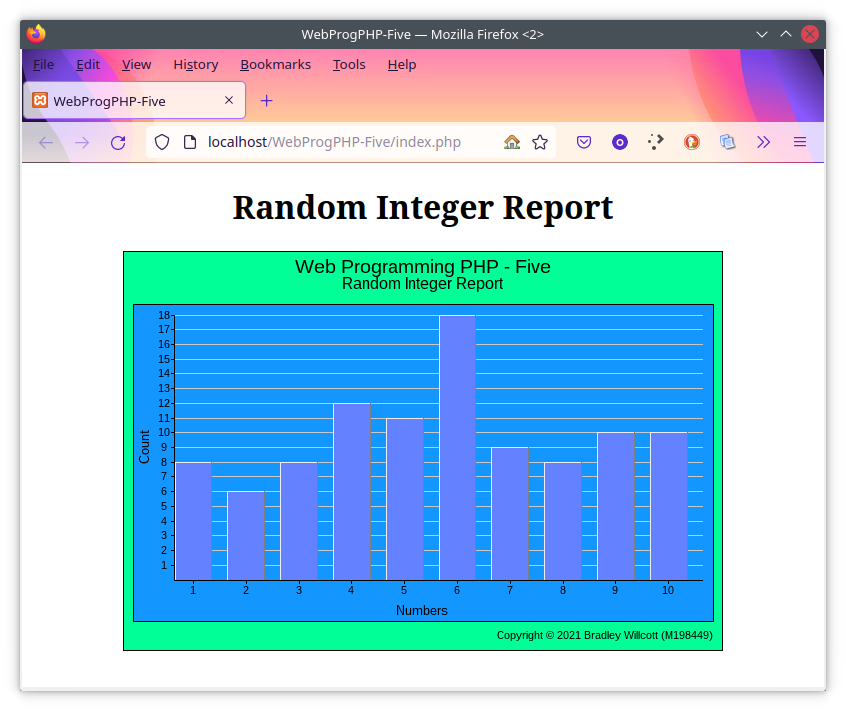


Figure – Refresh page

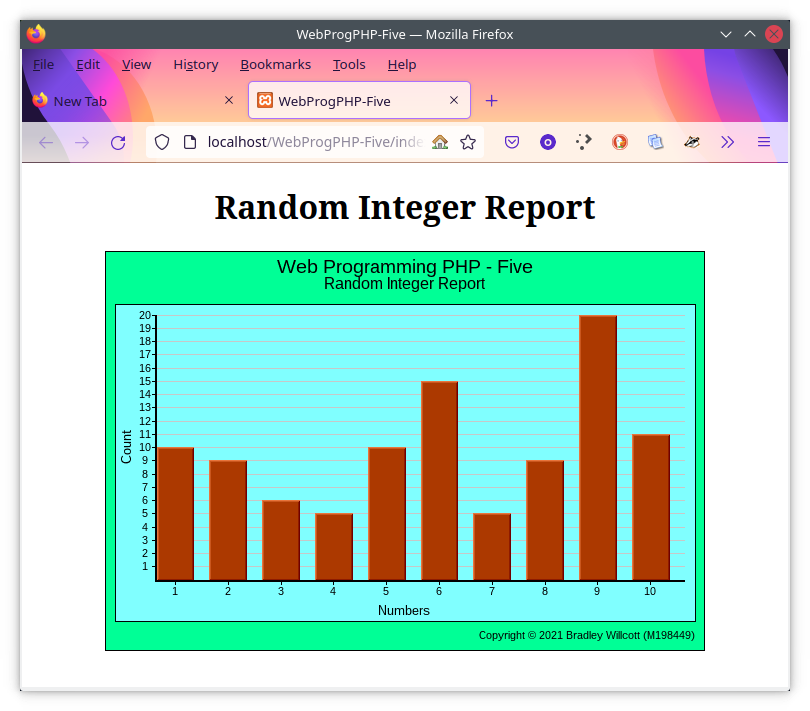


Figure – Refresh page after change of colours

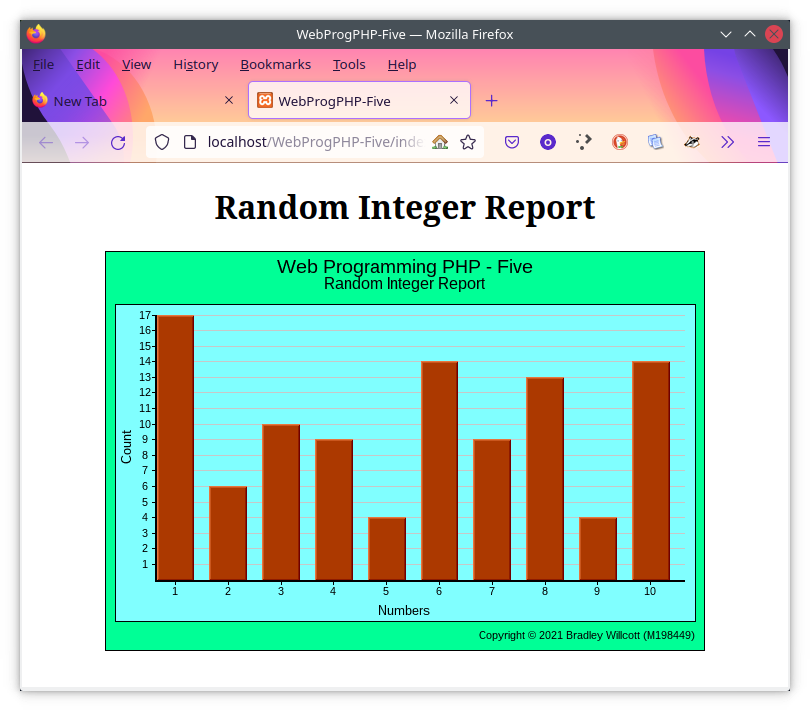


Figure 9 - Refresh page

Graphical user interface, application

Description automatically generated

Figure 10 - Microsoft Edge under MS Windows 10

Graphical user interface, application

Description automatically generated

Figure 11 - Refresh MS Edge

# References