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| Kingdom of Saudi Arabia |  | المملكة العربية السعودية |
| Royal Commission at Yanbu | الهيئة الملكية ينبع |
| Yanbu University College | كلية ينبع الجامعية |
| **Department of CS&E** |  |
| Yanbu Al-Sinaiyah | ينبع الصناعية |

**Enterprise Web Application Development (CS - 383) Lab 2**

**Bootstrap Grid System**

**As put by the official documentation of Bootstrap for grid system –**

**Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases. It includes predefined classes for easy layout options, as well as powerful mixins for generating more semantic layouts.**

## Working of Bootstrap Grid System

Grid systems are used for creating page layouts through a series of rows and columns that house your content. Here's how the Bootstrap grid system works −

* Rows must be placed within a **.container** class for proper alignment and padding.
* Use rows to create horizontal groups of columns.
* Content should be placed within the columns, and only columns may be the immediate children of rows.
* Predefined grid classes like **.row and** **.col-xs-4** are available for quickly making grid layouts. LESS mixins can also be used for more semantic layouts.
* Columns create gutters (gaps between column content) via padding. That padding is offset in rows for the first and the last column via negative margin on **.rows**.
* Grid columns are created by specifying the number of twelve available columns you wish to span. For example, three equal columns would use three **.col-xs-4**.

*Source: https://www.tutorialspoint.com/bootstrap/bootstrap\_grid\_system.htm*

Exercise:

1. Produce the following Grid using HTML5 and Bootstrap.

