Web Application design - Time allocation – 4Hours

* Back end
  + Create your own Microsoft SQL database to support web application. Please use whatever tools you feel comfortable with to connect to SQL database.
  + Databases to create – Employee training
  + Tables to create
    - Employee
      * Emp\_Number– unique (int)
      * Emp\_Name (varchar(50))
      * Emp\_Surname (varchar(50))
    - Training
      * Tra\_ID – unique (int)
      * Tra\_Supplier (varchar(50))
      * Tra\_Desc (varchar(100))
    - Training\_Session
      * Tra\_Ses\_ID – unique (int)
      * Tra\_ID (int)
      * Emp\_ID (int)
* Coding language
  + You may use whatever coding language you feel comfortable with, keep in mind that most of our web apps are written in vb or c#.
  + You may use any tool to do your coding. Please inform us what you use upon submission.
  + Please use good standards for coding syntax
* Front end
  + You may use whatever coding language you feel comfortable with. UI must be viewable on mobile and web.
  + Not much effort should be spent on aesthetics.
  + Please include field validation on your view.
* Use case
  + Create a simple web application to capture training sessions at branches. The app needs to capture employee details (employee number) and what training session they attend. The app should link the extra employee details (name, surname) in the background (stored in your database) to the UI.
  + Please create a master page where menu links to. (simple menu)
  + Also produce a excel export of the attendees of a training session (CSV)
* Test Data that you can use
  + Employee

|  |  |  |
| --- | --- | --- |
| Emp\_Number | Emp\_Name | Emp\_Surname |
| 5111 | John | Stone |
| 3266 | Sam | White |
| 5744 | Sibu | Ndlovu |
| 6988 | Marcus | Black |
| 55 | Victor | Els |
| 4741 | Thomas | Roelofse |
| 9844 | Vernen | Grundewald |
| 5477 | Morne | Nell |
| 6541 | Phillip | Swart |
| 9989 | Johan | Van der Walt |

* + Training

|  |  |  |
| --- | --- | --- |
| Tra\_ID | Tra\_Supplier | Tra\_Desc |
| 1 | Dulux | Textured wall paint training |
| 2 | Duram | Velvet wall paint training |
| 3 | Plascon | Paving paint training |
| 4 | Makita | Wireless drill training |
| 5 | Matabo | Cut off saw training |
| 6 | WHD | Gardening equipment training |
| 7 | Kayreed | Board edging training |
| 8 | Heunis | IBR roof sheet training |
| 9 | Eureka | Screws and fasteners training |
| 10 | Eurolux | External light fixtures training |

* + Training session
    - Populated with ID’s from both tables
    - Please be aware that Export of training session must contain employee name and surname not Just the Emp\_Number. It must also contain the supplier name and training description, not just the TRA\_ID