**23 - WEBAPI Assignment – 1**

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| The WebApi Assignment is titled "Purchase Order Processing System (POPS)".  The back-end is a small database with four tables containing the details of suppliers, items and purchase orders.  The middle layer will be a Web API which performs the CRUD operations on the database.  Entity framework/Ado.net will be used to access the database.  The front-end is a MVC application which uses C# for server-side code, JavaScript, jQuery, Bootstrap and other JavaScript libraries for client-side code, and Razor as the view engine.  Database:  CREATE DATABASE PODb  USE PODb  CREATE TABLE SUPPLIER (  SUPLNO CHAR(4) PRIMARY KEY,  SUPLNAME VARCHAR(15) NOT NULL,  SUPLADDR VARCHAR(40))  CREATE TABLE ITEM (  ITCODE CHAR(4) PRIMARY KEY,  ITDESC VARCHAR(15) NOT NULL,  ITRATE MONEY)  CREATE TABLE POMASTER (  PONO CHAR(4) PRIMARY KEY,  PODATE DATETIME,  SUPLNO CHAR(4) REFERENCES SUPPLIER(SUPLNO))  CREATE TABLE PODETAIL (  PONO CHAR(4) REFERENCES POMASTER(PONO),  ITCODE CHAR(4) REFERENCES ITEM(ITCODE),  QTY INT,  CONSTRAINT POD\_PK PRIMARY KEY(PONO, ITCODE)) |
| **Source:**  **Database:**        **Data Access Layer**        **WEB API**    **API – Controller**          **API- Models**      **Client – MVC**  **Controller**                  **Models**      **Views** |
| **Output:**  **WebApi**        **MVC Client**                **After delete**              **After delete** |