

FlexTime Class Registration System (Simplest Version)

Proposed by Student Name

I. Introduction

The purpose of this project is to take clients' fitness class enrollment online. This enrollment information will inform the Operations Manager of the number of enrollment by course and by section. The summary enrollment information will be used to decide whether or not any changes have to be made to sections in terms of cancelling, combining, or splitting sections (**decision to be made**).

II. The Inputs, Storage, Outputs, and Processing of the Project

The inputs of this project, at the **attribute** level (**you will enter the information directly; number, text, time, day, date**), include:

1. Client Name
2. Course
3. Section
4. Phone

Table 1 below provides sample data.

Table 1: Sample Raw Data in a Database Table

Client Name	Course	Section	Phone
Helen Lee	Zumba	MW (7-9pm)	248-992-0029
John Arthur	Kickboxing	TR (6-8pm)	313-001-9735
Mary Johnson	Kickboxing	TR (6-8pm)	586-225-7736
			

The input information will be saved in an MS Access database (DB) file (**mis3000Class.mdb**).

The structure of the DB file is as follows in Table 2. The names to be used on the Web form and in ASP files representing each field are included in the last two columns as well.

Table 2: Enrollment Table

Field/Attribute Name	Data Type	Length/Format	Comments	Name on Form	Name in ASP
ClientName	Text	20	client name, entered by clients	ClientName1	ClientName2
Course	Text	20	<i>selected by clients from a set of currently available courses embedded in a drop-down box</i>	Course1	Course2
Section	Text	20	<i>selected by clients from a set of currently available sections embedded in a drop-down box</i>	Section1	Section2
Phone	Text	12	clients' phone number; entered by clients	Phone1	Phone2

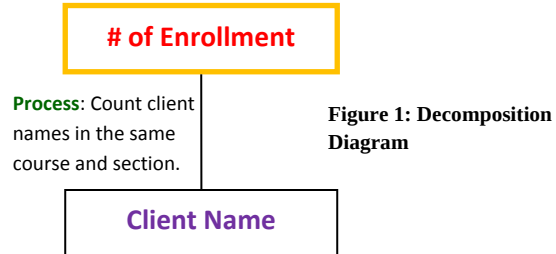
(Note: pay attention to the data type of each attribute. For example, zip code and phone number are normally specified as **text** data type rather than **number** data type. The other data type is the date and time. If the type is specified, then the format must be followed during the data entry

stage. When naming an attribute, try not to include space, avoid key/reserved words or function names such as Date, Year, Day, Int, Mid, and etc.)

The output of this project will be an enrollment summary table by course and section (see Table 3).

Table 3: Sample Output Table

Course	Section	# of Enrollment
Zumba	MW (7-9pm)	1
Kickboxing	TR (6-8pm)	2
.....		



The **process** of generating the output table is described as follows. In the summary table (Table 3), the Course and Section information are copied from the input table (Table 1). The # of Enrollment in the third column is derived by **counting the number of Client Names registered for the same course and section in Table 1**. A decomposition diagram is illustrated in Figure 1. Attribute Phone in Table 1 does not contribute to creating Table 3.

(Note: Normally, the embedded operations in MS Access include taking **average**, **sum**, **maximum**, and **minimum**, or **count** total occurrence.)