Project 1

To test whether your approach is robust enough here are a list of 2 generic sets of requirements.

The first contains the business statements as developed by an architect/analyst (whether they are known by the name of agile, business, design, enterprise or systems) and the second the data attributes developed by an analyst/engineer/scientist (whether they are known by the name of data, master data or attribute).

If you can use your approach to sort these 2 lists into the explicit deliverable that both business-centric and technology-centric people are able to understand then you have proven that your approach has bridged the cap between the two domains and are ready to convert any Legacy system into a futuristic sustainable one.

Business statements
Here are the 33 business statements. Your task is to sort them out into the vocabulary (ontology and taxonomy) of your framework. For example if your approach uses terms such as 'Vision' and 'Mission' then decide which one of the statements fit those descriptions.

#	Description
1	Keep costs down – we will achieve this by increasing our membership base and by automating some of the processes
2	Have a good quality data base to automate our dealings with members
3	Uncover the many different channels we can find to advertise the <client>: these include The number of fliers we distribute; Number of times member talks to others about the <client>
4	The enterprise looks after the needs of its members by ensuring it delivers great benefits to them
5	Look after the communication between members by providing a notice board and/or chat capability
6	Steps are needed in order to ensure they use the latest methods and resources in producing and handling their wares, members and resources
7	Establish the methods or procedures by which things are to be done whether they be pro-active - future events or re-active - historical events
8	Acquire and maintain members and these include instructors as well as associated members
9	Processes to ensure the profitability of the <client>
10	Ensure that we have money in the bank at the end of the membership year after achieving all our goals
11	Deliver information quickly and provide the ability to disseminate the data to associates rapidly

#	Description
12	Ensure that the highest possible performing and most efficient products and services reach the marketplace
13	Keep track of the number of courses a person attends
14	Ensure that we utilise our limited resources effectively
15	Better utilise the internet and mail
16	Organise special deals for members
17	Enable the spread of information about the organisation's products and services
18	Processes to ensure that the <client> has sufficient assets to produce and support its wares
19	Ensure that money comes in on a regular basis
20	Apply the latest techniques eg methodologies, computers, communication's equipment etc
21	Follow the way we move our wares to our members
22	Processes to demonstrate how we will gain and grow its client base
23	Keep track of money being spent
24	We are the only organisation of this kind in Australia
25	Processes in order to ensure its wares are in good working order
26	Set up a long range view and procedures that <client> needs in order to survive
27	Maintain high quality and reliable information as well as gaining the respect of members by delivering factual information rather than gossip
28	To obtain more members
29	Processes to ensure we have sufficient wares for the market place
30	To measure the efficiency of the person using the equipment
31	Keep track of the number of people leaving the organisation
32	Record an indication of what capabilities a person has
33	Track the number of hours a piece of equipment is used

Are you now able to define the strategies which will provide the focus for the technology-centric operative to design the necessary databases to begin the task of implementing a computer system to support the business statements? Or: Will you leave this task to be completed for someone else sometime later on?

Database design

Here is a list of 26 attributes for the first release of a system.

Perhaps the question you should be asking is: how were these 26 attributes discovered?

Suffice it to say the architect/analyst was astute enough to examine the business statements and managed to identify the business strategies and their priorities enabling them to focus on identifying sufficient attributes to define the boundary of the first systems release.

Attribute name	Description
abn	Australian business number
address name	The name of the address ie the country, city, suburb etc
alternate language	eg. Herr for Mr
bank account number	The account number provided by the bank
commencement date	The date on which a committee member or member was appointed
committee position name	The name given to the position on a committee eg. Chairman, treasurer
date of birth	The date on which a person was born
date of document	Date on which the document is lodged
email address	Where to send e-mail
first name	Person's given name
gender name	Describes the gender eg male, female
language name	The name of the language eg. English, German, French, Chinese
given name	Surname for a person Trading name for an organisation
mailing address line 1	The first line of the address eg 101 Pacific highway or PO Box 100
mailing address post code	The post code
mailing address suburb	The suburb
password	A personal word
telephone number	The contact number for a person
termination comments	Additional text to cover long stories
termination date	Date on which a committee member resigns or a member ceases to be one
termination name	The description of the termination eg. resigns, quit, sacked
time document is filed	The time the non financial document is lodged
title description	Full name of a title eg Reverend for Rev
title name	Describes the short title eg Sir, Mr Ms
translated name	The name of either the gender or title translated into
url	The www universal record locator for a web site

Your task is to:
1) Design a logical data model which will enable a programmer to produce a first cut prototype
2) Provide a project plan showing the development sequence of the systems & applications
2) Ensure that the model is flexible enough to support any future releases
3) Cross reference every table and attribute to the business statements

If you think this is too easy then wait until you are faced with having to design business-centric strategies of between 33 and 150 statements and technology-centric systems for business systems with more than 26 attributes. I can provide you with such a case study if you are able to prove that your approach can handle 33 business statements and 26 attributes.

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