

ACS RECOGNITION OF PRIOR LEARNING (RPL) FORM - 2017

This document is required to be completed for all **Recognition of Prior Learning (RPL)** applications and uploaded as a PDF to the application form.

IMPORTANT NOTICE:

Misleading and false information is viewed as a major breach of ethical behaviour and will seriously jeopardise your migration prospects.

It is your responsibility to indicate when you have drawn on the work of others. Other people's original ideas and methods should be clearly distinguished, and other people's words, illustrations and diagrams should be clearly indicated regardless of whether they are copied exactly, paraphrased, or adapted.

Failure to acknowledge your source by clear citation and referencing constitutes plagiarism. All plagiarism will be assessed as not suitable and reported to the Department of Immigration and Border Protection.

The ACS reserves the right to use software applications to screen your submitted work for matches either to published sources or to other submitted applications. In some cases, you may be asked to submit project reports and other written work submitted with the application for screening by plagiarism detection services.

If at any stage in the assessment process plagiarism is detected, the information may be provided to other Australian Government agencies. The assessment will be terminated and the outcome recorded as unsuitable. A refund of the application fee cannot be provided for cases assessed as containing false information or plagiarism.

Please complete the following 2 sections:

1. **The Key Areas of Knowledge – Section 1**
2. **The Project Report Forms – Section 2**

RPL applications are for those applicants who do **not** hold a recognised tertiary ICT qualification and who have a minimum of 6 years of closely related experience.

This document provides the opportunity for applicants to demonstrate the knowledge learnt throughout their professional experience.

Applicant Name	FAISAL
Applicant Email Address	
Applicant Date of Birth	DD/MM/YY

SECTION 1 – KEY AREAS OF KNOWLEDGE

Section 1 is based and will be assessed on the following document. Please ensure you read and understand - [The ACS Core Body of Knowledge for ICT Professionals \(CBOK\)](#).

You must clearly explain how your experience and qualifications meet the selected Areas of Knowledge and specifically how and where you acquired the knowledge.

You are required to select one topic from the Essential Core ICT Knowledge (Topic 1 or Topic 2) and one topic from the General ICT Knowledge (Topic 3, Topic 4 or Topic 5).

Please ensure you address at least 2 subtopics from each of the topics chosen.

The ICT Key Areas of Knowledge:

Essential Core ICT Knowledge

Topic 1. ICT Professional Knowledge

Sub Topics are -

- a. Ethics
- b. Professional Expectations
- c. Teamwork Concepts and Issues
- d. Communication
- e. Societal Issues

Topic 2. ICT Problem Solving

Sub Topics are -

- a. Modelling Methods
- b. Processes to understand problems
- c. Methods and tools for handling abstraction

General ICT Knowledge

Topic 3. Technology Resources

Sub Topics are -

- a. Hardware and Software Fundamentals
- b. Data and Information Management
- c. Data Communications and Networking

Topic 4. Technology Building

Sub Topics are -

- a. Human Factors
- b. Programming
- c. Information Systems Development and Acquisition

Topic 5. ICT Management

Sub Topics are -

- a. IT Governance and Organisational Issues
- b. IT Project Management
- c. ICT Service Management
- d. Security Management

Important:

- Identify the Area of Knowledge topic that you have chosen to explain by entering the name of the Area of Knowledge topic in the box.
- Explain, in the expandable typing area, how you have acquired the knowledge and illustrate the depth of that knowledge.
- You should NOT address all sub topics included in the Area of Knowledge in your explanation. Address at least TWO of the sub topics. Enter the sub topic name(s) in the box.
- Be clear and concise in your explanation.
- Limit each explanation to no more than one to one and a half pages.

In the following expandable typing areas, explain **how you have acquired your in-depth knowledge** in these topic areas through your professional experience.

Essential Core ICT Area of Knowledge:

ICT PROFESSIONAL KNOWLEDGE

SUB-TOPICS;

- PROFESSIONAL EXPECTATIONS
- Teamwork concepts and issues

How have you acquired this knowledge in your working environment? Illustrate your depth of knowledge.

PROFESSIONAL EXPECTATIONS:

I started learning about this important aspect of a professional's characteristic when I joined Eurostar Communications Co. LLC in October 2005 as Trainee Business Analyst. From the start of my career and due to my interest I was eager to achieve a distinct position in my career as ICT-Business-Analyst. The tenure of professional training provided me with the chance and good understanding about professional expectations made towards a good IT professional. I understood that the level of expert hopes is getting to another level with every passing day. I learnt it is entirely up to me as a professional to what extent I go to fulfil the expectations of my colleagues, employer, the clients and general public on a wider framework. I understood that I must be highly competent as a Software Engineer to meet those expectations extended towards me.

After the successful training when I was offered the permanent position of ICT Business Analyst. I understood that the role of an I.C.T Business Analyst in the present market is highly important and critical in the business operations of an organization. IT professional of any discipline is regarded as a useful resource because of the dependency on computer systems has become a common scenario of these days and IT experts are "must have" for the effectiveness and performance of the computer systems of any organization. The experts of this discipline include Software Engineers, Networking Specialists, Developers (IOS, Android and Web) and Database Administrators and so on as information technology expands to its related disciplines. As Assistant Software Engineer I learnt that I must have sound professional abilities, knowledge and I must be competent enough to undertake my day to day and other professional assignments efficiently.

While working as ICT Business Analyst at the same employer I improved my professional knowledge and adopted the best software development practices, skills and knowledge to have competent edge in my discipline. At my employer I had good chances to develop essential professional competency although I did not have any formal education related to software engineering but this tenure really polished my skills and abilities related to the subject. As expected from an ICT professional I got equipped with professional competencies in various methodologies and tools and participated successfully in many information technology projects with giving my input on the requirement analysis, planning, designing and relevant aspects by applying my learnt professional knowledge, abilities and skills.

Working as ICT business analyst, I enhanced my leadership and project management skills keeping in

touch with my core role as ICT business analyst in addition to managing the team. While managing different projects I gained comprehensive knowledge of estimation and over project planning experience as well commercial aspects of the projects keeping in view quality of the delivered software products making sure the timely delivery and other frameworks. In this position I acquired comprehensive knowledge about Logical and Physical design interfaces, service oriented architecture and achieved proficiency in deploying the software design and enterprise system architecture. I learnt to a great extent about the leading software expertise and development skills like .Net, C++, C# web and SQL technologies. I also learnt comprehensively about the software development methodologies in use like Agile and Waterfall while gaining proficiency in PowerShell, ERP CRM and Cloud Computing.

TEAMWORK CONCEPTS AND ISSUES:

Through the earlier years of my professional career with Eurostar Communications Co LLC, I learned the basic concepts of working as team and conceptual knowledge about teamwork. Amid my training, I discovered that "A Team" is a gathering of individual experts cooperating for a typical reason or target. I learnt that in a decent team member's work in close coordination and in a steady way to accomplish their normal goal. I additionally learnt that if the team working setup is well on the way to be fruitful and there are most odds of getting to the objective on account of individuals with skill and experience are assembling their endeavors.

While working during my time to day undertakings, I obtained learning about the collaboration ideas and issues, as it were, while for all intents and purposes working in the group condition and helping my seniors in different tasks, taking an interest in the group meetings. This all enhanced and polished my collaboration abilities and set me up as a powerful and effective team member. A good team with a reasonable number of required and focused on professionals combined with a decent administration results in fantastic outcomes meeting the desires of management, owners and additionally customers. I also learnt that at some point cooperation can get severely influenced by poor hierarchical issues, miscommunication and unacceptable methods of critical thinking.

While at my employer, I motivated chances to lead the groups and for all intents and purposes advantage from the impacts of cooperation while taking a shot at different undertakings and projects. I got the solid comprehension during this time teamwork has many advantages and additionally it conveys a few impediments if the group isn't overseen and composed well. There are colleagues who are who mostly get lazy and throw their workload on others. In multiple scenarios colleagues get languid and put their work stack on whatever is left of colleagues, it likewise influences the general group comes as the colleagues get overtired and can't play out their piece of the undertaking thus influencing the outcome. These issues must be settled with shared comprehension and with solid administration aptitudes of the foreman.

All through my expert profession, I kept enhancing my abilities about the topic and learnt numerous more parts of cooperation ideas and issues. I learnt that how vital is acting as a cluster captain and getting everybody to do the job and how to use their talent at their maximum limits. I comprehended that correspondence is exceptionally fundamental for staying away from the errors and lower the odds of a contention. I learnt that a Leader has an imperative part-to-play in the execution and yield of any group since it is the cluster pioneer who chooses his group for a task so he should be considered in-charge of any setbacks. Group pioneer need man power administration aptitudes and should have capacities to choose a colleague who has particular abilities, organizing capacities notwithstanding the capability recognized with the venture. This colleague can be an advantage for the group pioneer in the event that he needs to require a superior and produce required yield.

According to my learnt information I realize that a decent colleague has the abilities to arrange and impart well, is valuable in his working and who is anxious to develop and create with the group, who is resolved to get to the objective through shared coordination and profitably and who dependably makes

him accessible to go up against various parts and obligations independent of the measure of the objective. While overseeing different ventures I upgraded my administration abilities and comprehended that pioneer's part is imperative and urgent for the accomplishment of the group. I realize that Team Lead is a respectable example to take after for the group and if the pioneer is encounter enough the group gains from him and is prepared to gain from them and he supports the group inputs.

I might want to add here a few issues identified with cooperation which I saw amid my expert life. It is regular that the colleagues don't get themselves responsible of the overall execution of the group since they incline to put the fault on others for disappointment to pick up the crown of achievement. I additionally saw that occasionally colleagues just think about their individual assignment and don't help other colleagues who discover their errand hard to pact with anyone else and if this individual encourages him a bit they both would be fruitful for the general group achievement. In nearly limited cases I discovered that the collaboration neglects to create crisp thoughts and they regularly tend to rehash a similar practice. Each of these issues must be handled by the cluster pioneer being a good example for the colleagues.

General ICT Area of Knowledge:

ICT MANAGEMENT

SUB-TOPICS;

- IT PROJECT MANAGEMENT
- ICT SERVICE MANAGEMENT

How have you acquired this knowledge in your working environment? Illustrate your depth of knowledge.

IT PROJECT MANAGEMENT:

I got the conceptual knowledge about information technology project management concepts and best practices during my training period at Eurostar Communication Co LLC, where I started as ICT Business Analyst back in 2005 I gathered knowledge during training about the tools, skills and techniques for effectively managing the projects from scratch to final hand over and support. I implicit how to fold necessities and prepare Business Blue Print which is the core of a project, initiate the project and efficiently drive the project to required and expected result. I learned the aspects of project management skills practically. I understood about the knowledge, skills, methods and tools to undertake overall project activities and meet the project expectations and targets. I learnt that the project manager must be careful with the development and outputs in every phase of the plan and he must make-sure that the deliverables are achieved at every stage within the given framework of period and money.

While undertaking my duties as business analyst I learnt the practical experience of working on large scale projects handling the teams of professionals making sure every bit is taken care of and every deliverable is met in time. I gained in-depth information related to the subject and understood that the project manager must be well equipped with the competencies of project management and he must be well versed with performance monitoring coupled with personal competency. I learnt that as an ICT professional I must be well versed with the inclusive project and step-by-step activities as well as person to person assignment and duties of the team members. I know very well that if the project manager is well mastered with the project management skills he would be able to take care of the project development and he would be able to achieve results in a timely manner. I applied these skills in various projects that project management is all about keeping things in line including tasks on hand, experts available and technologies to be used and the relationship among above all.

Through the course of my vocation, I got the opportunities to work on numerous projects from application development to making whole corporate architectures. On these projects I applied my learnt

information about the techniques and tools about project management methodologies. I have expressed couple of projects in my "Project Reports Section" where I worked team lead taking care of the all the activities from requirement gathering to requirement gathering, analysis and documentation stage and even providing End-User Training and supporting the client with getting use to with the new software. I understand that the project management is an essential and critical to an organization that ensures that the complex technical projects like system upgrades and technology deployments are taken care of in required time frame keeping in view the risk involved, budget available and as per specifications. I learnt and practically applied the strategic project management techniques from defining the project scope, time frame, risk involved & superiority pledge.

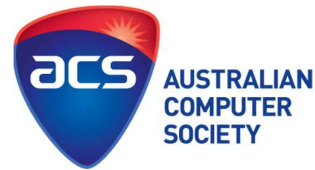
In my professional career I developed my project management skills to a great extent. I developed project plan which were cost efficient having a good return on investment. I took care of the every step from team selection to assigning the tasks to individuals and from designing the databases architectures to supervising the system and application deployment and taking care of the testing and hand over phases of the new system. I paid specific attention to the End User Acceptance Testing phase because if the client is happy everything is achieved. I am happy to provide my employer with many satisfied clients and ensured throughout my career that no matter project on hand is small or big it gets the needful attention and all the required Project Management tools are deployed to ensure that the required product is delivered on time and within budget allocations.

ICT SERVICE MANAGEMENT:

In the starting years of my job at Eurostar Communications, I was put through an extensive training where I learned basic concepts of I.C.T Service-Management and IT based services. I learnt about the concepts behind the prominence of I.C.T service-management, best practices in use and other services from service agreements to value added services and placement of these services in an ICT business. Through this training I also learnt to a great extent about the overall implementation of ICT based services from their effectiveness to the costing on applying these services. I also understood when and how to outsource these ICT based services and management of their timely delivery and other related supports.

However when I got permanent as ICT business analyst, I began getting into the practical utilization of I.C.T service-management-processes & systems and obtained learning about how to oversee and keep up an information system business for constant and dynamic management with quickest possible response to the business changes. I got the extensive learning about virtualization and cloud computing which has influenced the data innovation to service management a complex framework. I figured out how to generate and update the essential office applications and information interchanges benefits alongside upkeep of information security for end clients in the data framework business.

I learnt that marketing messages also need to get smarter and more simplistic and is something surely being employed by businesses. This works because it takes into account the fact that patrons are burdened with info. I gained understanding that digital marketing can only succeed when it freely accommodate new technologies and most importantly put the precedence on user needs. Performing my duties I learnt in-depth understanding of ICT Service Management attributes. I learnt that Information technology has changed the marketing phenomena and there are countless stuff to attract the consumers. Website plays a vital role in the promotion of business. The whole world has turned digital. It is indispensable that business marketing should also be in digital form. In fact digital marketing has no boundaries. I learnt that digital-marketing can be more profitable but to make it actually effectual, ponder these tendencies that are likely to rule in business.



SECTION 2 - RPL PROJECT REPORTS

A project report is a clear written description of a project or engagement that provides you with the opportunity to show how you perform as an ICT Professional.

Each report is to relate to a significant project or work episode undertaken by you during your professional ICT career.

The purpose of these reports is to enable you to demonstrate your command and implementation of the Areas of Knowledge described in Section 1 of this application.

Please Note: You are required to provide two project reports.

Of the two reports, one must apply to a project undertaken within the last three years, and the other for a project within the last five years.

Projects over two years long may be used for both reports under either of the following conditions:

- **The project has clearly-defined work efforts which took place in parallel, each with their own solution development and design activities and their own deliverables.**
- **The project had clearly-defined phases that were executed in succession, each with its own solution development and design activities and deliverables. Note that a second project phase that constructs and implements the solution developed by the first phase does not meet this requirement.**

Depending on the nature of your role in each project, the Project Report should cover an appropriate selection of factors.

Appropriate factors will be determined based on the type of ICT project selected. Possible factors include:

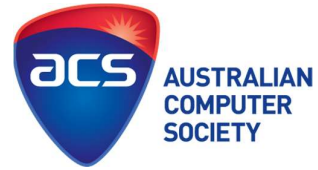
- System Analysis and Design and Software Engineering methodologies used;
- Contribution to the processes involved in the design and implementation of enterprise-wide computing systems;
- Programming languages, design paradigms and implementation procedures adopted;
- Database and/or file design and management techniques employed;
- Network topologies, including size, distribution and security facilities installed;
- Project Management and quality assurance techniques followed;
- Internet application design, including database interactivity and security measures implemented;
- ICT managerial activities, demonstrating the nature and extent of responsibilities

Project Summary:			
	Project Name	Start Date	End Date
Project 1	Supply Chain Management (JUST IN TIME)	01/2011	12/2011
Project 2	Web Application	02/2014	08/2014

Instructions

The following pages provide a template for your reports.

When writing your reports please provide your own thoughts – do not just copy project documentation.



Please use the first person in your discussion, so it is clear to the assessor what you did versus what others did – say “I did X” rather than “X was done”.

Diagrams from the project documentation may be helpful, but the text should be in your own words. Please ensure that diagrams are relevant, readable, and help the assessor to understand what you did as a member of the project team.

If sections of the Project Report template (see below) are not relevant to your participation in the project, then leave the section blank.

Focus on quality rather than quantity. **Each Project Report should be no more than four or five pages in length.**

SPECIAL NOTE:

By submitting this RPL Knowledge and Project Report form as a component of your ACS skills assessment application, you agree with the following statement:

The applicant confirms that the explanation of their knowledge and project reports submitted in this application truthfully and accurately describe the applicant and the applicant’s personal involvement in the projects. The applicant is aware that plagiarism by the applicant will automatically invalidate this application, will jeopardise any future applications from the applicant and will be reported by the Australian Computer Society to the Australian Department of Immigration and Border Protection.



Project 1: Supply Chain Management (JUST IN TIME)

1. Project Summary

1.1. Identification

Client's Company Name	Legal Name of Entity	
Business Address	Street Address Suburb State Postcode Country	
Contact Numbers	Tel: Telephone (include country and area code)	
Web Address	Web address	
Email Address	General email address	
Nature of project		
Location of project		
Name of your employer		

1.2. Duration

	From	To
Total project duration	Jan 2011	Dec 2011
Your involvement	Jan 2011	Dec 2011

1.3. Resources

	Number
Your team size	3
Total project team size	8

1.4. Personal Involvement

Please list the phases of the project in which you were personally involved

Start	Completion	Phase Description
01/11	03/11	Requirement gathering and Analysis
04/11	06/11	Logical and Physical Design Phase
07/11	09/11	Implementation
09/11	11/11	Bug Fixing & Error Rectification
11/11	12/11	GO-LIVE and Hand over to the client

1.5. Describe your role(s) and responsibilities in the project.

ROLE: ICT/ELV Business Analyst (Team Lead)

Being the lead Business Analyst in my team I was responsible for following in my current role:

- Fully involved in prerequisite congregation and scrutiny stage
- Fully involved in brainstorming the solution (Problem Solving)
- Complete involvement in Design Phase by recommending and coordinating with designers
- Involved in development and implementation
- Keep track of the unit testing at every level
- Monitoring the product readiness phase
- Fully involved in product "GO-LIVE" and handover phase
- Technically supporting the buyer marketing team in sales presentation of the product

2. Business Opportunity or Problem

2.1. Describe the business opportunity or problem(s) this project addressed.

Our client owns top notch departmental and grocery stores in the city. The client were initially maintaining their databases on excel sheets. Recently the client's BPOs decided to go for an inventory and supply chain management-solution for their stores and the outcome was this project.

This was a complete supply chain management solution having below stated modules;

- Supply chain management module
- Billing & Invoicing

The client's expectations from this solution were following;

- Tracking of products and components as they mobilise from vendor or warehouses
- In transit among warehouses
- Finally to the retail outlet locations
- Or directly delivered to the customers (in home delivery services)

The client also required a full-fledged billing and invoicing solution as part of the overall system

3. Solution

3.1. Discuss your contribution to the solution, project or engagement.

Implementation Phase:

From the implementation perspective there were two major components of this system. First was the interface which we call SCM Portal (Supply Chain Management Portal) Interface, Middle ware (which is called as SCM repository) and the database.

Choices to develop front end

For creating the front end interfaces I considered ASP .net, PHP and Java Server Pages. After careful evaluation I have decided to use Java Server Pages as they can be very well connected with the J2EE architecture (the framework selected to develop the complete environment)

Choices to develop middleware:

Here I had to opt for the complete development environment. I evaluated different options like .NET architecture, PHP and Java Enterprise Edition (EE) framework. After evaluation I have selected the J2EE architecture to build and deploy the application due to following advantages

- **Its simplified planning and growth :**
 - Primarily component grounded,
 - Labour based division,
 - active assemblage/placement
- **It Offers scalability to encounter need disparities :**
 - transaction sustenance,
 - D.B linking merging,
 - Burden harmonizing
- **Its capability of Incorporation with prevailing info-systems**
 - integration A.P.Is for: D.B.s, mail, C.O.R.B.A, messaging, almanacs
- **Selections of servers, tools, apparatuses**
 - server selections,
 - tool (I.D.E) sustenance,
 - constituent marketplace
- **Supple sanctuary prototypical**

Support a wide-range of security necessities

Upon my recommendation **Microsoft SQL Server and Oracle 10g** was considered as RDBMS to build the database of this system. After careful evaluation I have recommended to use Oracle database 10g for this purpose. Oracle is the RDBMS which offer better reliability, backup/recovery, transaction support security and overall data safety. Oracle was in the client approved budget and also client strongly supported to use Oracle database.

TDR (Tear Down Re-engineering of Existing Data)

Since Client almost all the data was maintained in the Microsoft Excel file. It contained a lot of anomalies, duplication, typo errors. Initially client insisted to directly import the data to oracle tables. I have strongly recommended first removing duplications, spelling mistakes in that software. For that purpose we have used our in-house built product "Data corrector". It almost cleaned 90% of the data. To further clean that data I have introduced the concepts of Inbound Staggering Tables in the database which hold the data unswervingly from the data entry module. These tables contain the data being entered from the interface and were being used by an inner procedure which intelligently clean the data and make it error free. We have done this as client did not allow us to do intensive client side validation of the data.

Analysis Phase:

I have analysed the complete necessities of the project as well as conducted frequent meetings with the customer management and documented them. The urge for making the key decision of data cleansing was first identified in this phase as well. After gathering the complete requirements I have come up with an agreed **BRD (Business Requirement Document)**.

Design Phase:

For designing this system (as described earlier) I have recommended to use data flow diagrams. Data flow diagrams are the famous tool to design the software.

Implementation: I implemented the system using J2EE architecture.

Client Side Presentation (Browser): We have used applets and pure HTML to implement the front end

Server Side Presentation (Web Server): We have used Java Server Pages, Java Servlets

Server Side Business Logic (EJB Container): Java EJBs written in java language

Database: We have implemented the database in Oracle Database

We have developed following deliverables using this technology

- **Supply chain management module:**
 - Purchase Management Module
 - Product Management Module
 - Distribution Management Module
 - Inventory Management Module
 - Sales Management Module

3.2. Describe any design or problem solving methods you used on this project.

To design this project I selected DFDs (Data Flow Diagrams) as a design tool. We also make use of Structured charts and Structured English in this segment of the plan. The basis for the selection of DFDs as a design tool are their following benefits

- DFDs are very useful in defining the limitations of the entire system
- DFDs are very useful in communicating the knowledge and details of existing system to the intended users
- A forthright graphical method which is tranquil to recognize.
- D.F.Ds can offer a comprehensive depiction of system-components.
- It is implied as the essential part of system-documentation file.
- D.F.Ds are calmer to comprehend by both technical & non-technical addressees
- It provisions the lucidity behindhand the data-flow inside the system.

What are Data-Flow-Diagrams:

Data flow diagram is graphical-representation of flow of data in an information-system. It is capable of depicting incoming data flow, outgoing data flow and stored data.

Types of DFD:

Data Flow Diagrams are either Logical or Physical.

- **Logical DFD** - This type of DFD concentrates on the system process, and flow of data in the system .For example in a Banking software system, how data is moved between different entities.
- **Physical DFD** - This type of DFD shows how the data flow is actually executed in the system. It is more specific and close to the implementation.

3.3. List the major deliverables of the project that you were responsible for or contributed to.

The major deliverables of this project were

- **Supply chain management module:**
 - Purchase Management Module
 - Product Management Module
 - Distribution Management Module
 - Inventory Management Module
 - Sales Management Module
- **Billing & Invoicing**

4. Results

4.1. Was your solution implemented? If so, describe the role, if any, you had in the implementation.

Yes the solution was successfully implemented. I have taken active part in the implementation role. I have written various JSP pages of Purchase Management Module, Written Java Servlets. In the implementation of the database I have written various stored procedures, triggers. Also I have scheduled RMAN (A utility integrated in Oracle Database for scheduling backup and recovery) backups.

4.2. Assess the overall success or failure of the project.

The overall Project was very successful. We have dedicated a separate one month time frame after implementation phase formally for bug fixing which is formally called as “**Alpha Testing**”. In this phase we invited client side evaluators to our office and fixed the bugs after letting them using the system before final delivery. After delivering the software, it worked very well and the client was very much happy with the delivery.

4.3. Lessons Learned

In retrospect, what you might have done differently on this project?

We first of all managed to move erroneous data maintained in excel sheets by cleansing it through TDR (Tear Down Re-engineering) , into the newly database system in a successful way without even losing or corrupting a single piece of information of any of their customer. This was a big achievement.

Project 2: Web Application for Student Management

5. Project Summary

5.1. Identification

Client's Company Name	Legal Name of Entity	
Business Address	Street Address Suburb State Postcode Country	
Contact Numbers	Tel: Telephone (include country and area code)	
Web Address	Web address	
Email Address	General email address	
Nature of project		
Location of project		
Name of your employer		

5.2. Duration

	From	To
Total project duration	Feb 2014	Aug 2014
Your involvement	Feb 2014	Aug 2014

5.3. Resources

	Number
Your team size	3
Total project team size	7

5.4. Personal Involvement

Please list the phases of the project in which you were personally involved

Start	Completion	Phase Description
02/14	03/14	Requirement gathering & Analysis
04/14	05/14	Logical & Physical Design Phase
06/14	07/14	Implementation
07/14	07/14	Testing & Bug Fixing
08/14	08/14	Product Delivery to the client

5.5. Describe your role(s) and responsibilities in the project.

Role: ICT Business Analyst (Team Lead)

In this project my major job responsibilities were following;

- Requirement gathering by meeting with client's BPOs and Key Users
- Investigating current applications
- Leading the teams
- Full involvement in requirement analysis and brainstorming the solution
- Solution presentation and sign up
- Producing specification for the new product and liaising with end user's personnel
- Writing new software and operation manuals
- Performing the testing and error fixing
- Inviting the end user's BPOs for testing in live environment
- GO-LIVE and making sure satisfactory operation
- Providing technical support and feedback

6. Business Opportunity or Problem

6.1. Describe the business opportunity or problem(s) this project addressed.

This client is a private mid-sized educational institution providing education. They were maintain all their system in manual registers and they have decided to computerize their student information and grading system

This project was an interesting delivery as previously we have developed such systems where we have to develop the whole system from an existing manual system.

As per the client requirement, delivery of the below stated modules were in the scope of the cited project

- Data Entry Interface
- Monitoring student-related activities
- Scheduling of examinations
- Maintaining of Student Grades
- Availability of all student-related information to parents, teachers and administrators
- Reporting Section

The major complex part was the data entry of student's records from manual registers to the newly developed online system.

7. Solution

7.1. Discuss your contribution to the solution, project or engagement.

I being the lead ICT Business Analyst contributed in every phase of the project. I was also considered various options during different phases and took important decision while selecting design methods, technologies to implement the solution and the database system to develop the underlying database

I have recommended to use .NET Architecture for the overall development and Microsoft SQL Server as backend database system

I have made various decisions while the development of this project.

Analysis Phase: During analysis phase I have made the key decision of deputing the business analysts to the client site in order to get the detailed picture of the current system

Design Phase: For design phase, I have recommended to used UML (Unified Modelling Language) to design the current system. Following are the basis to select UML

- Delivers standard for software-development.
- Plummeting of costs to mature diagrams of U.M.L implying ancillary tools.
- Development period is fairly lessen.
- The past encountered problems by the developers are no-longer present.
- Possess colossal visual-elements to paradigm and easy to trail.

Implementation Phase:

I have considered to use Microsoft .NET Architecture and S.Q.L Server to implement the system. Following are the key features of selecting .NET

- The Microsoft .NET platform's reliance on XML for data exchange
- Easier to build sophisticated development tools
- Potentially better performance in system level code for memory management, garbage collection, and the like have yielded an architecture that should meet or exceed performance of typical COM-based applications today.
- Fewer bugs, as whole classes of bugs should be unknown in .NET. With the CLR handling memory management, garbage collection.
- Faster development using development tool like visual studio.net.

I have myself overviewed all the written code in ASP .NET pages since I know about the basic languages and their coding. I also have implemented Database Procedures, functions and SQL Queries as well.

7.2. Describe any design or problem solving methods you used on this project.

As a design tool I have selected to use to UML. In the following lines I am going to discuss the reasons for its selection and details

Unified-Modeling-Language (U.M.L) is a modeling language that syndicates numerous methodologies in a solitary design language, which is implied to plan and produce computer applications.

U.M.L is basically a grouping of several notations: Object-Oriented-Design, Object-Modeling-Technique, and Object-Oriented Software-Engineering. The Unified-Modeling-Language implied the métiers of these methods to present an added reliable practice that's easier to usage. U.M.L signifies finest practices for edifice and documenting the façades of software and business-system modeling.

Reasons for Selecting UML for this Project:

- Delivers standard for software-development methodology.
- Reducing of costs to develop diagrams of UML using supporting tools.
- Development time is reduced.
- The past faced issues by the developers are no longer exists.
- Has large visual elements to construct and easy to follow.

Use of UML:

U.M.L is most frequently implied for knowing system requirements and development particulars of system execution. It is also implied to:

- Visually characterize the schematic's of a provided system with dedicated figures & connectors
- Notify documentation alike purposeful stipulations & test-plans
- Shape and chaperon the construction of multifaceted systems

U.M.L provisions a diversity of procedures, since it functions as a modeling-toolkit with its own symbolization and arrangement. The language can model Structure Diagrams, Behavior Diagrams & Interaction Diagrams.

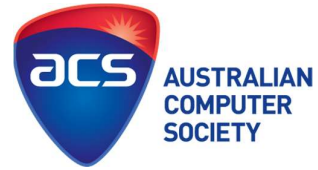
7.3. List the major deliverables of the project that you were responsible for or contributed to.

At the end of the project following were the major deliverables;

- Data Entry Interface
- Monitoring student-related activities
- Scheduling of examinations
- Maintaining of Student Grades
- Availability of all student-related information to parents, teachers and administrators
- Reporting Section.

8. Results

8.1. Was your solution implemented? If so, describe the role, if any, you had in the implementation.



Yes the solution was successfully implemented. I was also the part of development-team & written code in C# (C sharp) programming language. On the database side I have also written different SQL Queries to be called from the front end and also written database stored procedures, functions, Materialized views etc.

I also have written sub-queries and queries based on inner join, left outer join, right outer join as well which were called in the reporting section as well.

8.2. Assess the overall success or failure of the project.

Yes the project was successfully supplied to the customer and the client was very satisfied. The overall project remained within the agreed budget and specified timelines.

8.3. Lessons Learned

In retrospect, what you might have done differently on this project?

Nothing really to mention as everything went as agreed and the solution was delivered within the specified budget and timeframe.

