Case Study Task (CST)

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Scenario

Order Management at the Great Search Company

The Great Search Company (GSC) sells information about companies, individuals and properties to lawyers, solicitors and conveyancers in Australia. GSC clients are the lawyers, solicitors and conveyancers who use this information when dealing with commercial matters, litigation, or sale/purchase of property.

Examples of information that the GSC provide includes;

- Company information including current ownership and history of ownership
- Property title certificates to ascertain current ownership and history of ownership
- Rates certificate to determine the portion of rates payable by the purchaser and by the vendor when a property is sold
- Transport interest certificate to establish if new roads might affect a property
- Contaminated land certificate to establish if a property has land which is contaminated
- Property descriptions including any utility company easement or right of access

GSC is planning to implement a new information system to provide a one-stop-shop for the types of information listed above. The one-stop-shop will allow clients to place orders, monitor the status of orders, retrieve search results, monthly invoicing and payments. The GSC will need to source information from information providers such as national, state or local authorities. GSC acts as a broker between the information providers and GSC clients.

Clients place orders for information searches. Each order may include one or more information searches. Once the order is submitted a status is shown for each information search including an estimated time of completion. If the information requested does not exist in the information system then a connection is made to the appropriate information provider. The requested information is accessed from the information provider and stored in the information system.

Search results in the form of pdf documents are stored in the client document store within the information system. Each client has a document store which allows the client's staff shared access to the documents.

The order is considered fulfilled when each search item returns a result. The clients' monthly invoice is then updated. The new information system includes a third party payment module. Monthly invoices are automatically sent to clients. Payment is strictly 14 days. In the case of no payment, the client account is suspended, existing searches are halted, and new orders are held as pending. When payment is received, the client account is un-suspended, existing searches continued, and pending orders submitted.

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Revision history

Version number	Date revised	Revision comments
1	2/5/2018	Added the concept of "one-stop-shop"
		in part 1 business driver
2	12/5/2018	Built WBS in part 4 defining the scope
3	15/5/2018	Added the control phase criteria in part
		9 project control

1. Business driver

Problem

GSC main focus on selling information, their success factors may rely on the ability to stand out among similar firms, such as technical support, data warehouse and customer service. However, GSC cannot combine these functions together and integrate them to be a whole part before using the one-stop-shop. Thus, it is time-consuming and money-consuming to manage GSC.

Need and improvement

GSC need to increase the efficiency and reduce cost. Using one-stop-shop information system in order management can simplify the procedure of operation in GSC. Lots of functions can be integrated in one parts, such as order management, search management, invoice management and payment. It is easy to manage and maintain. In addition, the efficiency can be increased in GSC. The cost of company may be reduced, since GSC doesn't spend more funds on maintaining various parts.

Opportunity

GSC may attract more customers and become popular by using new information system, as clients can place orders, track orders, search information and payment effectively.

Possible impact of not doing the project

The process of operation may be complicated and GSC has to spend more time and money on maintaining the system. Thus, GSC cannot gain more benefits and they may lose competitiveness in the market.

2. Project objectives

- a. Reducing labor cost and maintenance cost in order management
- b. Improving business processes and reduce the time in searching information
- c. Developing the quality of services and data
- d. Connecting order system and payment system, and getting them work together
- e. Improving the turnaround time for customer orders

3. Business benefits

Specific	Combining order system and payment in new
	information system by using one-stop-shop module
Measurable	The work efficiency of order management
	increases at least 25% by using new information

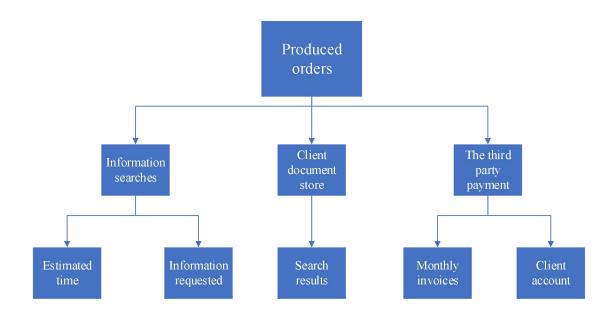
	system in one month
Assignable	Project manager is main in charge of realizing the
	business benefits
Realistic	Increasing the revenue of GSC by 20% by using
	new information system by the end of the year
Time-related-specify	This result must be achieved by the end of 2018

4. Defining the scope

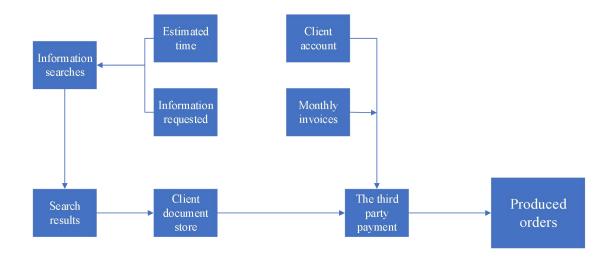
Scope statement

In GSC project, we use prince2 method on project management. The project involves building a new information system by using one-stop-shop module, which can combine order system and payment system together. One-stop-shop will enable clients to place orders, track orders, get invoice and complete the payment in high-efficiency way, so that the work efficiency of order management and can largely improve. Thus, GSC can increase benefits and expand their market share. This project will be delivered in 2.5 months under the condition of enough funds and staff.

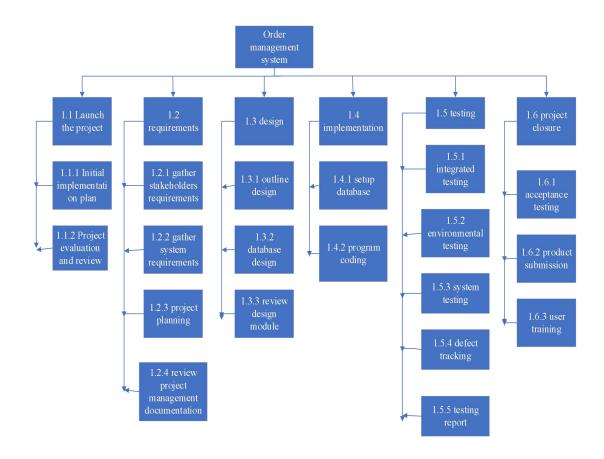
Product breakdown structure (PBS)



Product flow diagram (PFD)



Work breakdown structure (WBS)



Estimated duration 1

WBS	Task name	Duration time(day)
code		
1.0	Order management system	60
1.1	Launch the project	5
1.1.1	Initial implementation plan	3
1.1.2	Project evaluation and review	2
1.2	requirements	10
1.2.1	Gather stakeholder requirements	2

1.2.2	Gather system requirements	2
1.2.3	Project planning	4
1.2.4	Review project management	2
	documentation	
1.3	Design	18
1.3.1	Outline design	8
1.3.2	Database design	8
1.3.3	Review design module	2
1.4	Implementation	10
1.4.1	Setup database	5
1.4.2	Program coding	5
1.5	Testing	10
1.5.1	Integrated testing	2
1.5.2	Environmental testing	2
1.5.3	System testing	2
1.5.4	Defect tracking	2
1.5.5	Testing report	2
1.6	Project closure	7
1.6.1	Acceptance testing	2
1.6.2	Product submission	2

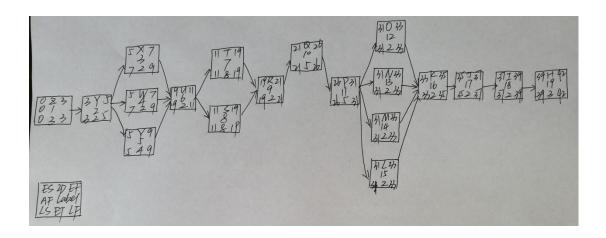
1.6.3 User training 3

Estimated duration 2

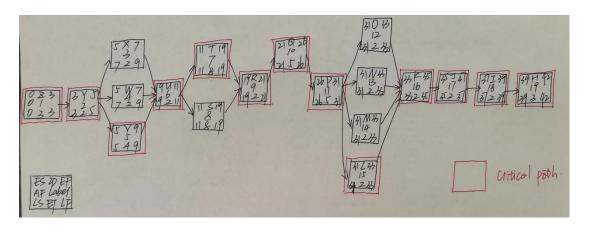
ID	Task	Pred.	Estimated time(ET) days	ES	EF	LS	LF	SLACK
1	Z		3	0	3	0	3	0
2	Y	Z	2	3	5	3	5	0
3	X	Y	2	5	7	7	9	2
4	W	Y	2	5	7	7	9	2
5	V	Y	4	5	9	5	9	0
6	U	X,W,	2	9	11	9	11	0
		V						
7	Т	U	8	11	19	11	19	0
8	S	U	8	11	19	11	19	0
9	R	T,S	2	19	21	19	21	0
10	Q	R	5	21	26	21	26	0
11	P	Q	5	26	31	26	31	0
12	О	P	2	31	33	31	33	0
13	N	P	2	31	33	31	33	0
14	M	P	2	31	33	31	33	0
15	L	P	2	31	33	31	33	0

16	K	O,N,	2	33	35	33	35	0
		M,L						
17	J	K	2	35	37	35	37	0
18	Ι	J	2	37	39	37	39	0
19	Н	I	3	39	42	39	42	0

Network diagram



Critical path

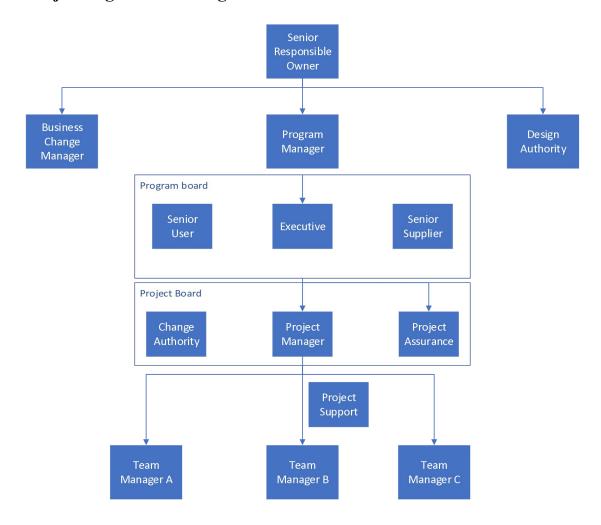


5. Key stakeholders

	Stakeholders	Responsibilities
Internal	Senior	Senior Responsible Owner (SRO) is the
stakeholders	Responsible	key leader in driving GSC project. SRO
	Owner	should control the change in GSC
		company and deliver GSC project
		successfully.
	Business	As a primarily benefits-focused role,
	Change	Business Change Manager should be in
	Manager	charge of defining the company benefits,
		evaluating the process of GSC project
		and realizing the measured improvement.
	Program	Program Manager and Executive can be
	Manager/	a combined role, which represents SRO
	Executive	to deliver changes, supervises risks and
		realizes benefits in GSC project.
	Design	Design Authority and Change Authority
	Authority/	can be a combined role, which should
	Change	provide suggestions from experts and
	Authority	consider requested changes.
	Project	Project Manager is in charge of Project

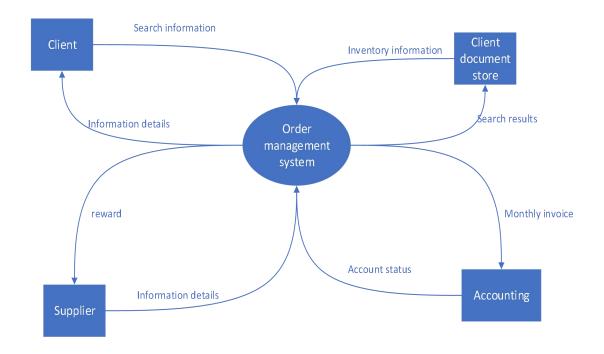
	N	C . IT M TI I			
	Manager	Support and Team Manager. The role			
		focuses on GSC project every day and			
		runs it under the constraint of Project			
		Board.			
	Project	Project Assurance ensures the success of			
	Assurance	the whole GSC project. Any member of			
		Project Board can be this role.			
	Project	Project Support can provide the			
	Support	administrative role and manage the assets			
		of GSC project.			
	Team	Team Manager is in charge of products			
	Manager	in Work Packages and delivers status			
		project reports to Project Manager			
		regularly.			
External	Clients	Clients are the lawyers, solicitors and			
stakeholders		conveyancers who purchase information			
		and use order management system in			
		GSC.			
	Suppliers	Suppliers are Information providers who			
		offer source information to GSC.			

Project organization diagram

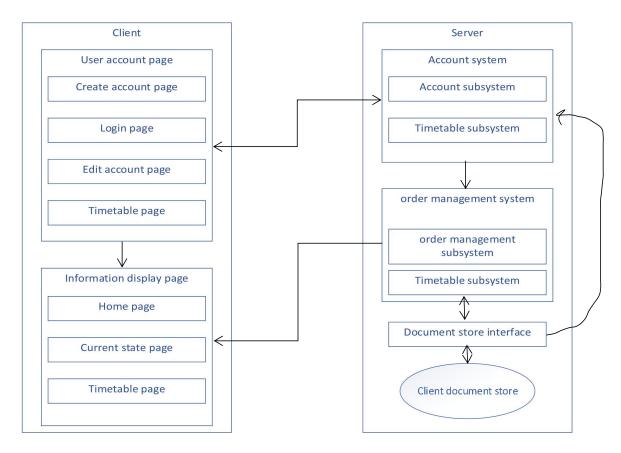


6. Outline solution

Context diagram



High-level architecture diagram

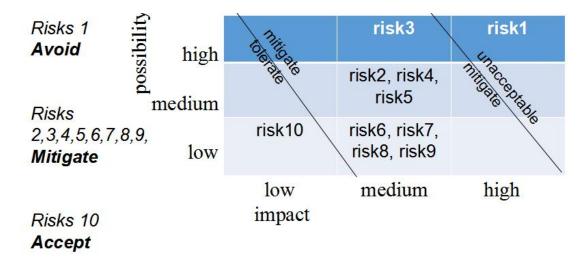


7. Key risks

GSC Risk Register probab **Date** Risk Risk Risk Risk Risk Risk Risk Risk Risk Proximity registere ility response Identifier author category description response status owner actionee d impact category make business estimatio start-up capital 1-6-2018 1 Julie high immediate avoid budget active change Julie n risks is not enough surplus manager the design complete results cannot during requirem review Design 2 Alex 1-6-2018 medium design reduce active Alex meet ents risks design authority stakeholders' phase module requirements lack of expert people recruit program 3 1-6-2018 to provide IT medium immediate reduce Jay active Jay risks staff manager support give project more manager is organisat rights to busy and may project 4 ional Yang 1-6-2018 medium immediate reduce project active Jay not attend the manager risks support meeting every and team time manager program manager should the change in during GSC project have organisat implement program sufficien 5 1-6-2018 ional Jay cannot be medium reduce active Jay ation manager delivered risks t phase working correctly experien ce

6	Jay	2-6-2018	people risks	need more professional staff to maintain new information system	medium	future	reduce	train saff and make recruitm ent	closed	program manager	Jay
7	Eden	3-6-2018	technolo gy risks	require additional space in client information store	low	future	transfer	expand space to meet the demands of client informati on store		project support	Yang
8	Eden	3-6-2018	technolo gy risks	hardware system is out-of-date and it cannot run the new information system	low	future	transfer	update hardware system under the budget	closed	project support	Yang
9	Jay	3-6-2018	people risks	lack of appropriate partner who supports the third party payment function	low	future	transfer	look for working partner in the market	closed	program manager	Jay
10	Jay	3-6-2018	people risks	supplier cannot provide accurate information	low	future	accept	accumul ate contacts and seek cooperati on opportun ities		program manager	Jay

Risk matrix



Avoid risk:

The possibility and impact in risk 1 are high. As the estimation risk, it is essential to consider funds and resources before launching GSC project. We use avoid risk strategy and try to overcome it.

Mitigate risk:

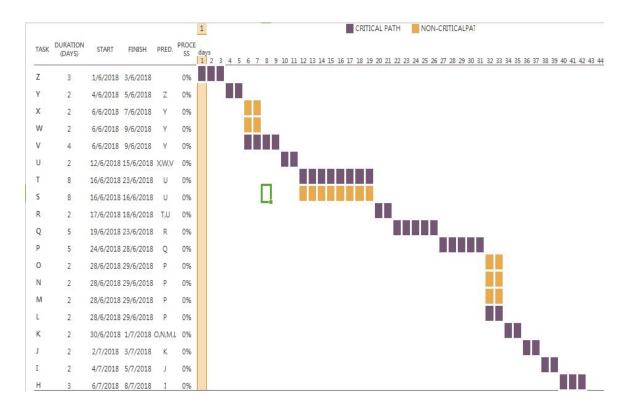
The possibility and impact in risk 3 are high and medium respectively. For risk 2, 4, 5, the possibility and impact are medium. For 6,7,8,9, the possibility and impact low and medium. They can be reduced and transferred in GSC project.

Accept risk:

The possibility and impact in risk 10 are both low, we consider to accept this risk as it cannot affect the process of GSC project.

8. Delivery and release planning

GSC Gantt chart



9. Project control

Project name	GSC project		
Project manager	Yang		
1.1 Control phase criteria			
Time	1/6/2018		
Scope	Make interviews with stakeholders		
	Complete project management documentation		
Budget	Preliminary costs are available and ample		

Stakeholders	Senior responsible owner agrees to launch this				
	project				
	Key stakeholders are defined				
Resources	There are sufficient resources in 1.2 control				
	phase				
Quality	The project management documentation initially				
	has been complete initially				
1.2 Control phase criteria					
Time	6/6/2018				
Scope	Get requirements and plan the project				
Budget	Project budget is defined and reasonable				
Progress	The launch and finish dates in 1.1 control phase				
	are defined and agreed				
Stakeholders	Project manager control the whole process				
Resources	Technical resources meet the demands of				
	stakeholders and system				
Quality	The project management documentation has				
	been completed entirely and signed-off				
1.3 Control criteria					
Time	12/6/2018				
Scope	Design the project				
Budget	Update the project budget				

Progress	The launch and finish dates in 1.2 control phase			
	are defined and agreed			
Stakeholders	Project manager controls the whole process, an			
	works with key stakeholders			
Resources	Technical resources meet the demands of design			
Quality	Design module is completed			
1.4 Control criteria				
Time	17/6/2018			
Scope	Implement the project			
Budget	Estimate costs and update the project budget			
Progress	The launch and finish dates in 1.3 control phase			
	are defined and agreed			
Stakeholders	Project manager controls the whole process, and			
	works with key stakeholders			
Resources	Technical resources meet the demands of			
	implementation			
Quality	Database is built and program is coded			
1.5 Control criteria				
Time	24/6/2018			
Scope	Test the system and deliver report			
Budget	Estimate costs and update the project budget			

Progress	The launch and finish dates in 1.4 control phase		
	are defined and agreed		
Stakeholders	Project manager controls the whole process, and		
	works with key stakeholders		
Resources	Technical resources meet the demands of testing		
Quality	Deliver the testing report and update the system		
	1.6 Control criteria		
Time	30/6/2018		
Scope	Submit the project and train users		
Budget	Update the project budget and make settlement		
Progress	The launch and finish dates in 1.5 control phase		
	are defined and agreed		
Stakeholders	Project manager controls the whole process, ar		
	works with key stakeholders		
Resources	Technical resources and project resources are		
	available		
Quality	Complete and sign-off the post-implementation		
	report		

10. Project costs

	GSC project costs							
ID	Phase	Hours	Labor cost	Material cost	Travel cost	Fixed cost	Other	Budget
1	phase 1.1	40	\$1,000.00	\$100.00	\$50.00	\$100.00	\$50.00	\$1,300.00
2	phase 1.2	80	\$3,000.00	\$300.00	\$100.00	\$200.00	\$100.00	\$3,700.00
3	phase 1.3	144	\$8,000.00	\$500.00	\$180.00	\$800.00	\$200.00	\$9,680.00
4	phase 1.4	80	\$5,000.00	\$300.00	\$100.00	\$500.00	\$100.00	\$6,000.00
5	phase 1.5	80	\$4,000.00	\$300.00	\$100.00	\$500.00	\$100.00	\$5,000.00
6	phase 1.6	56	\$1,000.00	\$200.00	\$70.00	\$300.00	\$70.00	\$1,640.00
7	total	480	\$22,000.00	\$1,700.00	\$600.00	\$2,400.00	\$620.00	\$27,320.00

GSC risk costs				
ID	Risk category	Cost		
1	Estimation risks	\$500.00		
2	Requirement risks	\$200.00		
3	People risks	\$100.00		
4	Organizational risks	\$100.00		

5	Technology risks	\$800.00
6	total	\$1,700.00

Total budget = project costs + risk costs = \$27,320.00 + \$1,700.00 = \$29,020.00

References

Axelos. (n.d.) What is PRINCE2? Retrieved from https://www.axelos.com/best-practice-solutions/prince2/what-is-prince2

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