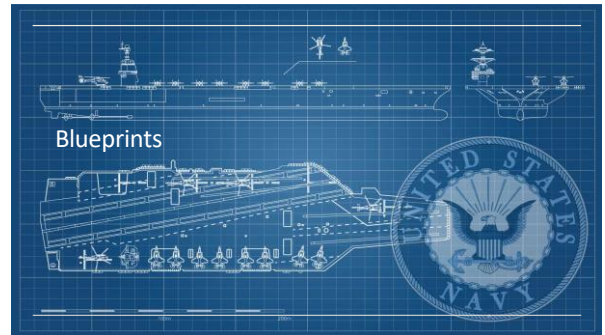
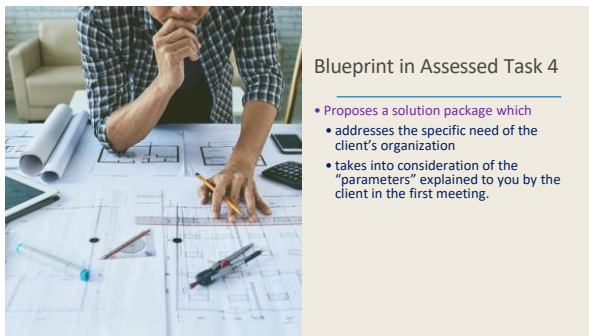




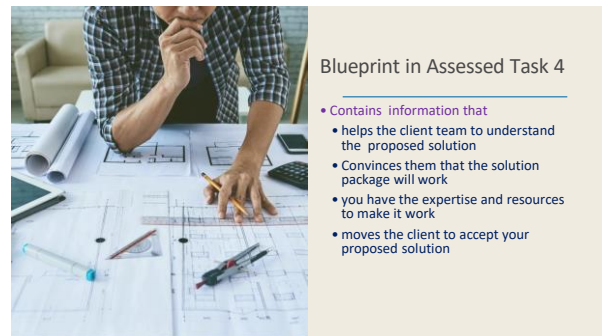
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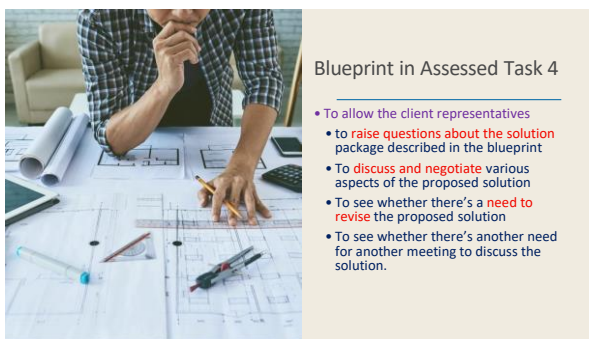
2



3



4



5



6



Rubrics

The blueprint should:

- summarize the client's requirements and parameters obtained in the Initial Client Meeting
- customize the design accordingly
- not include unnecessary generic information presented in the talk
- illustrate and support ideas by creatively, professionally designed images, figures, tables
- be easy to read for a non-technical audience

7

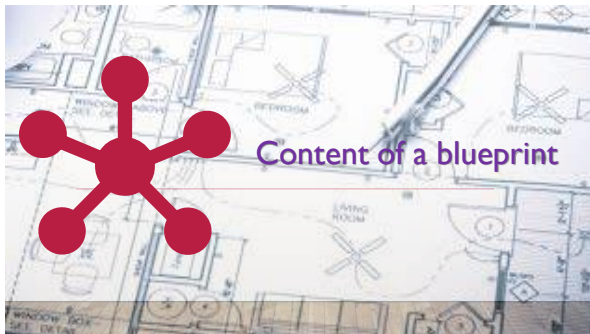


Blueprint

Assignment Details

- Group task (20%)
- Due on **April 24** [Wed]
- Each member should contribute at least 600 words.
- The document should be no more than 3500 words.
- If your work exceeds or goes under the word limit by 10% or more, 5% of the possible available marks will be deducted.

8



9

WHAT SHOULD A BLUEPRINT CONTAIN THEN?

The blueprint should contain

1. A title page
2. A table of contents
3. Problem definition & objectives of solution
4. Design of the solution
5. Implementation, deliverables & cost (project team and record of the team)
6. Appendices

Task	Mark	Comments
Task 1		
Task 2		
Task 3		
Task 4		
Task 5		
Task 6		
Task 7		
Task 8		
Task 9		
Task 10		

10

The title page (or the Cover)

What should appear on the cover?



Minimum content requirements:
 - A title page
 - A table of contents
 - A problem definition & objectives of solution
 - Design of the solution
 - Implementation, deliverables & cost
 - Appendices

11

THE TITLE PAGE

Bears

- The title of the project that can reflect the problem and the solution accurately
- Name of the client firm
- Name of your firm

Should we write the names of the project team members who put together the proposal? Why or why not?

How should we identify ourselves in the blueprint we submit to GE2410?

(Place your names on the last page of your document)

12

13

TABLE OF CONTENTS

Shows the

- Headings of major sections and their subsections
- Shows the pages on which the sections/sub-sections start.

See sample

- The blueprint should contain:
 - A title page
 - A table of contents
 - Problem definition & objectives of solution
 - Design of the solution
 - Implementation, deliverables & cost (project team and second of the team)
 - Appendices

14

PROBLEM DEFINITION

Max 700 words in Assessed Task 4

Provides a brief introduction that summarizes:

- The client's background
- The *specific* problem facing the client
 - **NOT** the generic problem like what you presented in the public talk
- Their request
- Their parameters (obtained from the first meeting)
- The objectives of the proposal (the proposed solution)

- The blueprint should contain:
 - A title page
 - A table of contents
 - Problem definition & objectives of solution
 - Design of the solution
 - Implementation, deliverables & cost (project team and cost of the team)
 - Appendix

15

PROBLEM DEFINITION (CONT'D)

Describes briefly:

The client	Nature of business, service types, etc. (no copying from the Information Sheets!!!!)
The problem	The client-specific problem (but not a generic problem such as what you presented in public talk – penalized!)
The request In general	What the client asked your company to do in general to solve the problem e.g., to design some specific types of window in a particular part of their building; implement/install the solution, after-sales services, etc. omissions will be penalized

- The blueprint should contain:
 - o A title page
 - o A table of contents
 - o Problem definition & objectives of solution
 - o Design of the solution
 - o Implementation, development & test (project team and record of the team)
 - o Appendixes

16

PROBLEM DEFINITION (CONT'D)

The parameters	Specific requirements stated by the client in the first meeting (info gap activity), e.g., • Objectives to achieve through the solution • Improved performance measured in terms of time reduced, percentages of errors minimized, number of orders taken simultaneously, etc. • Volume of work to handle by the solution • Physical space available for the solution • Time frame • Budget
------------------------------	---

17

PROBLEM DEFINITION (CONT'D)

Project objectives	- Summarize the objectives of the proposal/project e.g., This proposal outlines a solution that will address the needs/parameters summarized in Section 1.1, etc. - Summarize the solution
----------------------------------	--

See sample

18

DESIGN OF THE SOLUTION

Key technical details of the actual solution to be built for the client

e.g.:

- **Name of the technology**
 - a generic name (e.g., biogas energy supply), or a patented name (e.g., Fuji Biogas Supply System)
- **Structure of the actual solution**
 - Components, functions of components and how they're related.
- **How it might look like when installed in the client's organization**
 - (e.g., drone systems) or in their products (e.g., mobile phones).

DESIGN OF THE SOLUTION (CONT'D)

- Materials needed (if applicable)
- The hardware and software to use (if applicable)
- Capabilities of the solution
 - Capacity
 - Output
 - efficiency
- Constraints/limitations/life-cycle and how these can be overcome or minimized

Description of the design needs to be in accordance with the parameters mentioned in the first meeting.

Max 1400 words for Design in Assessed Task 4

19

IMPLEMENTATION, DELIVERABLES & COST

- What will be produced and delivered to the client, including
 - The different parts of the solution
 - Technical support: training, documentation (manual writing/user guides), maintenance
- Stages of implementation/installation, testing, launching of the solution
- Schedule and the expected completion date

20

IMPLEMENTATION, DELIVERABLES & COST (CONT'D)

Max 1400 words in Assessed Task 4

- Sub-contracting (hiring another company for its patented technology or other technical services, eg., Superb) – IF APPLICABLE only.
- Total cost and breakdown of the cost
- Warranty [optional]
- Personnel involved in the project
- Experience of the firm if needed

21

APPENDICES

- Additional/non-essential details
 - ❖ Technical details of the technology
 - ❖ Glossary of technical terms
 - ❖ Information of sub-contractors

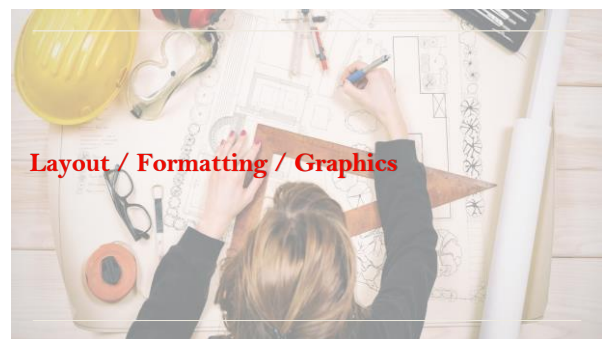
22

TIPS

Show in the proposal that

- you understand their **specific needs/problems**
- you know **what they want specifically** in the solution that you build for them
 - **parameters** cost, area, volume, output efficiency, after-sales services, etc.
- you can develop a **"customized"** solution that satisfies most (if not all) of the above
- it is **feasible** and **cost-effective**
- will be designed, implemented and supported by a team of experts experienced in the kind of solution

23



24

The cover page of the sample blueprint (Medical Record System)

Comments

It bears a primary title that shows the name of the artefact to develop

The secondary title bears the name of the client

The picture captures quite nicely the essence of the project

It bears the name of the engineering firm's

On the whole, the cover is quite professionally designed



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The Table of Contents

Comments:

Well-paginated

Well-formatted

'Table of Contents'

Grammatical use of the word "contents"

ROSS TECH	
Advanced Online Medical Record System	
Table of Contents	
1. Project Background	5
1.1 Client Situation	5
1.2 Problem Definition	6
1.3 Client Requirements	6
1.4 Objectives of the solution	6
1.5 Parameters of the artefact	6
1.6 A brief description (overview) of the solution	6
2. System Information	6
2.1 Functionality for medical team	6
2.2 Functionality for patients	6
2.3 System design	6
2.4 Hardware requirements	6
2.5 Software requirements	6
2.6 Security Features	6
2.7 Interfacing Issues	6
2.8 System Integration	6
2.9 Data Requirements	6
2.10 System Backup and Recovery	6
2.11 Backup Requirements	6
2.12 Training	6
2.13 User and Deliverables	6
2.14 Cost	6
2.15 After sales service	6
2.16 Project timeline and progress	6
2.17 Project location table	6
2.18 Project timeline	6
2.19 Other	6

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Project Background (Problem/specifications)

Comments:

Good that the writers refer to the problem that the client is facing in their organization.

Details of the problem were obtained from the first meeting with the client representatives (the Info Gap Activity)

Advanced Online Medical Record System	
1. Project Background	
1.1 Client Situation	5
1.2 Problem Definition	6
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1.4 Objectives of the solution	6
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2.14 Cost	6
2.15 After sales service	6
2.16 Project timeline and progress	6
2.17 Project location table	6
2.18 Project timeline	6
2.19 Other	6

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Client's requirements & objectives of project

Comments:

Objectives of the solution – to solve the problems of the client hospital – briefly described.

Parameters of the artefact (requirements specified in the first meeting with the client reps) stated as frame of reference to evaluate the design, the deliverables, etc.

A brief description (overview) of the solution.

1.3 Client Requirements	6
1.4 Objectives of the solution	6
1.5 Parameters of the artefact	6
1.6 A brief description (overview) of the solution	6
2. System Information	6
2.1 Functionality for medical team	6
2.2 Functionality for patients	6
2.3 System design	6
2.4 Hardware requirements	6
2.5 Software requirements	6
2.6 Security Features	6
2.7 Interfacing Issues	6
2.8 System Integration	6
2.9 Data Requirements	6
2.10 System Backup and Recovery	6
2.11 Backup Requirements	6
2.12 Training	6
2.13 User and Deliverables	6
2.14 Cost	6
2.15 After sales service	6
2.16 Project timeline and progress	6
2.17 Project location table	6
2.18 Project timeline	6
2.19 Other	6

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Specifying the functions of the artefact

A well-organized presentation of the functionality of the system.

2. System Information

"Hospital content management system" (HCMS) is an innovative and challenge system that would provide an online platform to store hospital information and improve the information accessibility for both medical service provider and patients. On one hand, HCMS provides innovative and practical medical service for patients. On the other hand, it employs cutting-edge techniques for creating a cost-efficient backend system. The functionality of the HCMS can mainly be separated to two focus: the medical team and patients.

- 2.1 Functionality for medical team
- View and manage patients' personal particular
 - Managing the appointments from the patients
 - Managing doctor's professional profile
 - Creating consultations/medical record for patients
 - Viewing and manage admission and discharge record

- 2.2 Functionality for patients
- Viewing and managing patient medical information
 - Making appointment
 - Searching doctor information

Apart from the functionality, there are basic hardware requirements for using the services and it will be listed in the following part. For the structure of the backend system, we would like to introduce the "Client-server" technique to handle a large amount of data and the advantages come from this technique.

29

System design

A detailed and systematic description of the design of the system, which is illustrated with well-designed graphics.

The section is broken down into sub-sections/sub-sections, each labelled with clear headings

ROSS TECH	
Advanced Online Medical Record System	
2. System Information	
2.1 Functionality for medical team	6
2.2 Functionality for patients	6
2.3 System design	6
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2.11 Backup Requirements	6
2.12 Training	6
2.13 User and Deliverables	6
2.14 Cost	6
2.15 After sales service	6
2.16 Project timeline and progress	6
2.17 Project location table	6
2.18 Project timeline	6
2.19 Other	6

30

Deliverables and cost

A detailed description of deliverables and cost that match the specifications obtained in the first meeting with the client reps.

4. Cost and deliverables

4.1 Cost

4.1.1 Breakdown of the overall project cost

Below is a breakdown of the cost and details of each item.

Item	Cost (USD)
1. System Analysis (2 days)	20,000
2. Design	30,000
3. Development (4 weeks)	80,000
4. Testing (2 weeks)	20,000
5. Deployment (1 week)	10,000
6. Training (1 week)	10,000
7. Support (3 months)	30,000
Total	200,000

4.2 Deliverables

Below is a list of deliverables that will be provided to the client at the end of each phase of the project.

4.2.1 System Analysis

Deliverables include:

- System Requirements Document (SRD)
- System Architecture Diagram (SAD)
- System Design Document (SDD)

4.2.2 Development

Deliverables include:

- Source Code
- Database Schema
- User Interface (UI) Design

4.2.3 Testing

Deliverables include:

- Test Plan
- Test Cases
- Test Results

4.2.4 Deployment

Deliverables include:

- Deployment Plan
- Deployment Script

4.2.5 Training

Deliverables include:

- Training Manual
- Training Session

4.2.6 Support

Deliverables include:

- Support Ticket System
- Support Team

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Cost & deliverables (cont'd)

4.2.7 Maintenance

Below is a breakdown of the items included in maintenance.

Item	Cost (USD)
1. Training	10,000
2. Maintenance	10,000
3. Software Updates	10,000
4. Performance Support	10,000
5. Internal Check	10,000
Total	50,000

The total cost of the project is \$250,000. The project budget is \$250,000. The project is on track.

4.2.8 After-Sales Service

4.2.9 User Manual

Below is a list of items included in the user manual.

- User Manual
- User Manual

4.2.10 System Manual

Below is a list of items included in the system manual.

- System Manual
- System Manual

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Project duration

Stages of work quite realistic and succinctly previewed in a table.

Not aligned

7. Project duration and stages

7.1 Project Duration Table

Stage	Duration (Days)
Requirements Investigation	7
System Analysis	7
Design	10
Development	40
Testing	10
Deployment	10
Support	30
Integration	7

33

Background of the firm

A succinct and appropriate description of the firm.

There are no exaggerated details.

8. About us

8.1 Company Background

Since 1985, KCS Tech has been delivering full software development services to customers in over 30 countries worldwide. KCS Tech is an expert in development, customization and integration of complex enterprise-level solutions, advanced web and mobile applications offering a well-balanced blend of technology skills, domain knowledge, hands-on experience, effective methodology and passion for excellence. KCS Tech is the world's top 10 largest software maker by revenue, and one of the world's most valuable companies.

8.2 Our firm

We strive to provide our clients with the best solutions to your business needs. We place great emphasis and focus on their problems and develop solutions that best fit their needs. We offer strong and effective solutions to their business with an end-to-end approach. We think of ourselves as our clients' long-term partner. By supporting our customers with top resources and skills, we fulfill our core goal - add value to their business through knowledgeable application of information technologies.

8.3 Our experience

Our best-known software products are the KCS operating systems, the KCS brand banking application, and the KCS electronic medical record system. The KCS electronic medical record system is a government project used by thousands of patients with convenient access to their personal medical records. According to a feedback survey, more than 70% of patients have public hospitals that involved in this project experienced a better service by using the KCS system.

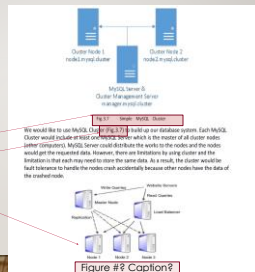
34

Some problems with graphics

Comments:

Some are captioned, numbered and referred to in the main text.

But, some are not.



35

FORMATTING AND GRAPHICS

36

POINTS TO REMEMBER

Design cover

Use a bigger font size for the primary title

"Proposal" in sub-title or in smaller font

Company name & logo in smaller sizes -- background only

Images matching title/content

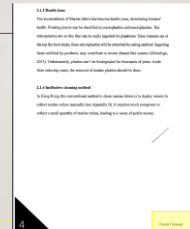


37

POINTS TO REMEMBER

Pagination

Running title



38

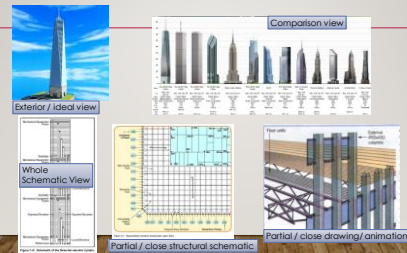
POINTS TO REMEMBER

- Use graphics to supplement or complement writing.
- Number each and provide a transparent caption.
- Comment or refer to the graphic



39

SOME POSSIBLE VISUALS



40

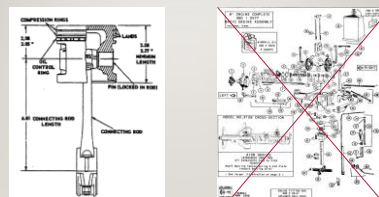
ABOUT DESIGN OF GRAPHICS

- Each should serve a purpose in the document.
- Don't include random drawings or images for no or little reason.



41

USE SIMPLE /EFFECTIVE GRAPHICS



42



Project Time

1. Revisit client's background and requirements
2. Create an outline for your blueprint.
3. Brainstorm layout and design.
4. Divide work and set internal deadlines.

43

Suggestions for dividing up the blueprint work:

Leader: Title Page; Table of Contents; Introduction of Firm; Problem Definition.

Design Engineer: Problem Solutions, including some schematics / visuals.

Technical Engineer: Remaining visuals for the solution (to balance out the designer's work); Constraints, including visuals to show what could not be done or what could be added on later, if needed.

Sales Engineer: Financial factors, maintenance plan, emergency operation factors (could also go to Tester); Reasons for hiring the team – teamwork, awards won, summarizing the costs vs benefits of the technology presented.

Note: in coordination with your instructor, your team can decide how to divide up the blueprint work.

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Section No.:	_____	
Group No.:	_____	
Title of Blueprint: _____		
Student name	Parts of the Blueprint	No. of words
Student A	Title page	word count excluded
	Table of Contents	word count excluded
	Problem Definition	500
	...	250
	Sub-total word count for Student A	750
Student B	...	500
	...	200
	Sub-total word count for Student B	700
Student C	...	600
	...	200
	Sub-total word count for Student C	800
Student D	...	200
	...	500
	Appendices	word count excluded
	Sub-total word count for Student D	700
Grand total		3,000

Work distribution

Word count

45