

TEMPLE UNIVERSITY

BNAI MIS 3504 Digital Design and Innovation Studio

Day 2

Photo: Installation by Jenny Holzer, US Pavillion, Venice Biennale 1990



- 30 minutes
- Individually | closed notes | closed book
- Start: 8:30 end 9:00

Today's Topics

- Scope Review
- Philadelphia Paint Case
- Requirements Gathering



These tactics are used both in projects and products.

When a team completes a part of the project, this is called an output.

Verification: Did we do what we were supposed to do?

Validation: Does this provide incremental value ?



Verification	Validation
Are we implementing the system right?	Are we implementing the right system?
Evaluating products of a development phase	Evaluating products at the closing of the
	development process
The objective is making sure the product is	The objective is making sure that the
as per the requirements and design	product meets user's requirements
specifications	
Activities included: reviews, meetings, and	Activities included: black box testing, white
inspections	box testing, and grey box testing
Verifies that outputs are according to inputs	Validates that the users accept the software
or not	or not
Items evaluated: plans, requirement	Items evaluated: actual product or software
specifications, design specifications, code,	under test
and test cases	
Manual checking of the documents and files	Checking the developed products using the
	documents and files





Verification

Validation









The Project Scope Document

The Project Scope Document describes the context of your project and what it must deliver.



Project Scope Document Contains:

- Statement of Purpose (Problem Description)
- Objectives
- Problems & Opportunities
- Risks
- Assumptions and Constraints
- Stakeholders Analysis
- Glossary

Project Scope Document

- Usually done before you would join project by PM but you might be asked to help
- The work that **needs** to be done, and only the work that needs to be done, to deliver the product and solution
- PM should do forward looking parts
- Scope creep an incremental expansion of the project scope as requirements not truly necessary for the solution get included



Statement of Purpose

- Short description of the problem
- Carefully written in business language
- Current environment or situation
- Essential problem or opportunity
- 3 paragraphs:
 - General context of the organization
 - Current condition of the process or product
 - Essential problem or opportunity
 - Including project approach



Objectives

Project objectives are the **business' reasons** for doing the project

They might be stated as improving: The company's finances The performance of a particular process The company's position in the market

They should be important enough that you wouldn't need more than 5 or 6 to justify a significant project





They should be:

Specific Measureable Actionable Realistic Time-bound



Project and Business Risks



Project Risks – potential problems that might keep the team from **finishing** the project

Sponsor leaves in the middle of the project

Business Risks – potential problems that might impact the mission of the business

New commerce initiative fails and creates a major loss





Known Risks– problems that the team are aware could arise i.e.- the project may be delayed due to the upcoming holidays

Unknown Risks – potential problems that are not expected throughout the project

i.e.- a global pandemic



Risk Response- how do you respond to it?

Avoid it – change the project to eliminate the risk
Transfer it – shift the risk to someone else like a vendor
Mitigate it – reduce the probability or impact
Accept it – just live with it



Risk Matrix

A risk matrix helps identify, keep track, and manage **known risks** throughout the course of a project.

Risk ID #	Business or Project Risk	Proba bility	Risk Response	Impac t
1	IT expert who knows warehousing leaves company	Low	Accept it	





What we know about unknown risks

Plan for contingencies or plan "b". What is an example of an unknown risk?



Team Exercise

_		1	
Group	First Name	rst Name Family Name Chin	Chinese
Number	i ii st i vaine		Name
1	Yahan	DAI	代雅涵
1	Menghe	LI	李梦荷
1	Yifei	QUE	阙一菲
2	Fang	DONG	董方
2	Zhichao	LIN	林志超
2	Kang	SHAO	邵康
3	Muyao	DONG	董慕瑶
3	Dongchang	LIU	刘东昌
3	Ruoming	TANG	唐若铭
5	Zhi	DO	杜智
5	Yusen	LOU	罗宇森
5	Zijian	TIAN	田子鉴
6	Baowei	GUO	郭宝维
6	Yue	MA	马越
6	Ziyi	WAN	万子仪
7	Mengfan	GUO	郭梦凡
7	Weifan	QIAO	乔玮凡
7	Ruoyu	ZHI	支若玉

Group Number	First Name	Family Name	Chinese Name
8	Yucheng	HOU	侯禹丞
8	Jianan	WU	吴佳楠
8	Yi	ZHENG	郑 毅
9	Jingyu	JIANG	姜璟羽
9	Qian	WANG	王茜
9	Yimo	WU	吴奕默
9	Ao	ZHOU	周傲
10	Ao	LI	李奥
10	Luxiao	XUE	薛路晓
10	Xinyue	ZHANG	张 馨月
11	Chaoyue	LI	李超越
11	Yihan	WANG	王一涵
11	Yifan	YANG	杨一帆
12	Yuqing	YIN	印雨晴
12	Tongjia	ZHANG	张 桐嘉
12	Wenhan	ZHAO	赵文涵



Team Exercise: Philadelphia Paint Company Case (60 min)

Instructions:

- 1. Read through the case with your teammates
- 2. Think about what you read about the company
- 3. Ask your SME (me) if you have any further questions
 - 1. What points would you want to make about the general context within the company?
 - 2. What points would you want to make about the problem?
 - *3.* What points would you want to make about your path forward? You have 60 minutes to:
 - 1) create a sample "statement of purpose" with your group
 - 2) 3 "smart objectives"
 - 3) Create a risk grid with <u>5 risks</u>. The grid should include how the company should respond to the risk (A,M,A,T).





Break into your teams for 60 minutes

Email me your statement of purpose and 3 objectives at <u>Courtney.Minich@temple.edu</u> MUST include GROUP NUMBER for credit One per GROUP

Let's review

1. You have 60 minutes to:

1) create a sample "statement of purpose" with your group

2) 3 "smart objectives"

3) Create a risk grid with <u>5 risks</u>. The grid should include how the company should respond to the risk (A,M,A,T).



Break: 15 minutes

Let's review- break until 11AM

- 1. Statement of purpose
 - 1. *Group 3, 7, 9*
- 2. *Objectives*
 - 1. *Group 5,6,8*
- 3. Risk Matrix
 - 1. Group 1, 10, 11, 12, 2

When probability of a risk is LOW, you can ACCEPT the risk.





TEMPLE UNIVERSITY

BNAI MIS 3504 Digital Design and Innovation Studio

Requirements Elicitation & Intro to Interviewing

Day 2

Photo: Installation by Jenny Holzer, US Pavillion, Venice Biennale 1990

What does *elicitation* mean?

• To draw, bring out or forth, educe, evoke, to elicit the truth.

• To elicit a response with a question.

• Not only is this important for a BA, but it is especially important for an auditor.





How does a BA elicit requirements?

HOW BA's Elicit Requirements

Describe these elicitation techniques and how you would use them:

- 1. Reviewing existing documentation
- 2. Observation
- 3. Interviews
- 4. Surveys and questionnaires
- 5. Facilitated sessions
- 6. Focus groups
- 7. Competitive analysis
- 8. Interface analysis



More Methods

- Observation
 - Fly on the wall
 - Contextual
 - Shadowing

· Activities

- Collaging
- Modelling
- Draw your experience

- Interviews
 - Directed storytelling
 - Unfocus group
 - Role playing
 - Extreme user
 - Purse or backpack tour
- Self-reporting
 - Journals
 - Beeper study



Saffer's 3 Rules on Doing Design Research

- 1. You go to them
- 2. You talk to them
- 3. You write it down





Rule # 1 YOU GO TO THEM

Discussion: Trust & Observing



Why do you need to build trust



Rule #2 YOU TALK TO THEM

Discussion: Interviewing

Definition of *INTERVIEW*

1: a formal consultation usually to evaluate qualifications (as of a prospective student or employee)

2a: a meeting at which information is obtained (as by a reporter, television commentator, or pollster) from a person

http://www.merriam-webster.com/dictionary/interview



Know your audience



Points of view



What are you listening/looking for?



"If I had an hour to sha problem and my life depended on the solution, I would spend the first 55 minutes determining the proper question to ask, for once I know the proper question, I could solve the problem in less than five minutes."

Albert Einstein

Interviewing

Prepare questions in advance

What do you want to know?

Who is best able to tell you?

Executives – Can usually tell you why? Managers – Can usually tell who? where? And what? Workers – Are usually the only ones who can tell you how?

Ask open ended questions

Ask follow-up questions using the "reflect" technique



Active Listening



" The reason why we have two ears and only one mouth is that we may listen the more and talk the less."

— Zeno of Citium

What does it take to listen actively?

- 1. Pay Attention
- 2. Show that you are listening.
- **3.** Provide feedback
- **4.** Defer judgment.
- **5.** Respond Appropriately



Socrates was good at follow-up questions

Clarification	What do you mean by? Could you put that another way? Can you give me an examples?
Probing Assumptions	What are you assuming? How did you choose those assumptions? What could we assume instead?
Probing Reasons and Evidence	How do you know? Why do you think that is true? What would change your mind?
Viewpoint and Perspectives	What are you implying by that? What effect would that have? What is an alternative?
Probing Implications and Consequences	How can we find out? Why is this issue important? What generalizations can you make?
Questions about Questions	What does that mean? What was the point of this question? Why do you think I asked this question?

TEMPLE UNIVERSITY

http://www.1000advices.com/guru/communication_guestions_socratic.html



Rule #3 YOU WRITE IT DOWN

Discussion: Taking Notes



HOW do you take notes

maintenir marintaria " la ligerite de ton fiel a parapel to per assure que de lour des pierres, ce qui n'empiche pas grand bou lui in de Jenibu la le sable fin constitues d'ombelles blondes has he en jonet de paille voici de Bonavensure, à quelques milles, garde son mirage: la a ginde vent there of parchissout d'une enjambie ans. winder taken ogre qui etc. faire mathe basse sur les formes et les junes filles de la côte, dont il garnislavait at those for vastis pochis. De retorn chez diri, et son repas ternitue, il lavait atte tange la persistance accusatrice et rayonnante des maculations de la rache des efforts trodigieuse quantili de mouse de sauge en perficheel repaillistitutent de ces plumage is and the impulissants à tis faire disparaite, Quelle lissing non moirs faite fintse effacer de l'esprit dis hommes les grandes cicathices collectives ch les raf ants de ces somps de hame! End asile sacre m devront ils pas faire lite jogue pri qui selbers forzo de Bassan sur feurs nides lutteront pour le dipasse de min

What is this for?

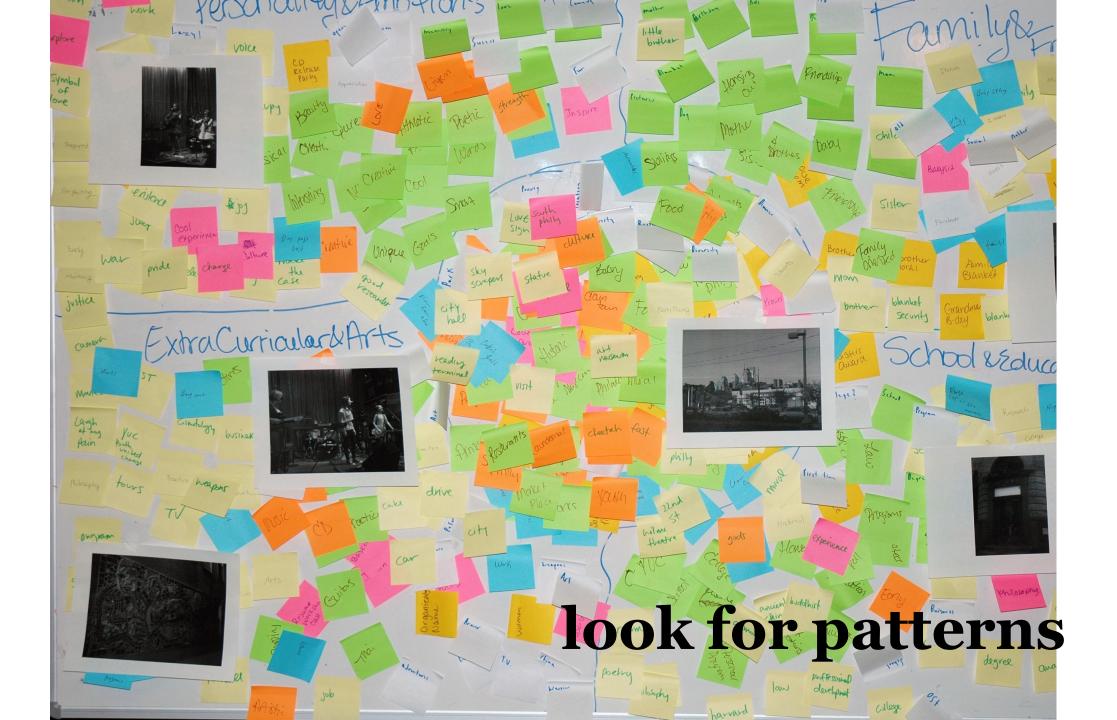
ginirali

iendra a

vere of l'art

de l'an now mon lur seul

iru ellilarge. O. ur les moyens de remidier à l'éprange malidichion qui trappe ment plus de micomptes et de malheurs que de brinfaits. Idas prepudia des mesures qui s'imponnt en citte sombre veille de deux fois l'an mil, et qui re social il na constant nour d'homme of avoit d'esport plus standa usoiment moral whilement d'ordre social sances pour tender que dans le comp d'aile. utta pointelle then de culare à la crite dis vagues, à ta ligne a hume simuluse an ras de to the chircherrs a agates to Kocher Fire his mine apprent in a Anona dans mos finitres et en emportinai his coin la vision. The an l'hurre je reglettais de nepouvoir de plas pris le découvrir dans son and soul a et que des dispositions nonvilles de sa masse fissint surgir des images différentes st, de ne 9 que uta dermere, dis Andre Breton: Manuscrit d'Arcane #17, 1944 pg Cost d'aillurs tals ms it angle, a migds a dention and prop fit the light out the plus t targe 1420has taut a copier us chiffred, cut ut un prospectus reclame it si je ne me diplais



Courtney's Approach to Note Taking

- Prepare your questions in advance
- Take brief notes on comments people make (note who said what)
- If something seems very important or surprising, highlight it
- As soon as possible, review you notes in a quiet setting
- Add observations, conclusions, ideas in another color
- Start a new page with follow-up questions

8212 ---0 -



Reminder

Class tomorrow at 8:30 AM Quiz tomorrow: 30 minutes Introduction to Final Project Thank you & Goodbye!





