Information System Design

Project Initiation and Planning:

Ly Purpose: Organizing a team to conduct a planning for a new sys.

Ly key steps include: Team Pormution, customer relationship, plan creation management procedures, invironment setup & developing project charter.

Project Planning key elements:

Baseline Project Plan (OPP)

Roject Scope Statement (pss)

Project Planning Components! L scope, Alternatives, Feusi bility L Task division L Resource & schedule planning L Communication planning L standards & procedures L Risk Assessment L Preliminary budget L Project scope statement Deliverables! Baseline project plan: Project seape Risk costs

Pss: psummary for the constorner

outlining project deliverables. Assessing Project Feasibility: Economic Operational Scheduling Legal Contractual Ly Political Project Benilits: - Tangible (eg. Mensureble) L In tangible (morable) Project Costs: Tangible (hardware labor Intengible (Fixed cost, variable Cost)

Time Value of money (TVM) 1 concept of money value based on time available. Ly Discount Rate Present value 7 NOV (Met present value) PVn = (Yx) (1+i)n NPV = Sum of prosent values accross Jeans. Break-even Analysis BEA Break-Even Ration = (Yearly NPV cosh Flow - Greral 1 MV rosy) Her My NPV con Flow.

Scanned with CS CamScanner

-5 Technical Feasibility (Devolopement on ability to build) Taylor mos exis > Project Risk Factor: Size, Structure, team exp, us timilionity > Risk Assessment Rules 1 Larger, less structured and employing new tech -> other teasibility_ Operational, scheduling, legal, contractual & political doubt the first the

Determining System Requirements

System Analyst abaracteristics:

Ampertinence, Impartiality, relaxed constraints detail tous, & retraming

Croanizational Components: Understand business objectives, data needs, How, dependencies, rules, policies

Deliverables: interview Transcripts,
meeting minutes, business documents, system
models & prototypes.

interviews observing worker studying Poes Effective Interview. Plan Prepare listen take notes review de neutral seek diverse views Interview Questions: open Ended Pelose ended Group Interview Adri Efficient we of time

· 2" W. Come of the Book. N. 183

Traditional Methods

Nominal Group Technique

> structured idea generation

-> equal participation

-> idea clarification

Document Analysis: Historical views

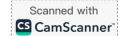
Formal vs informal designs sys: Formal is the official process.

Su formal are the actual process.

Useful Documents: Business forms.

sys reports

correct sys req.



Contemporary Methods: L JAD L CASE (30 [s L Proto types

> JAD: Documents on current sys CASE Tools: Diagramming, form building allows direct model entry CASE Tools: Productivity, colla boration quelity Assurance, Actomated Documentation & Risk Manage... Produtyping : Iterative development with user Types: Evolutionary or Throway

Designing DB Chapter 9 S physical pesign' logical Trechina specifications Describble Datas Storing Data Data Management SUB-term Pricess DB Design Livical model for each inser interface L Consolidate requirements into one made 1 translate conceptual E-R Model L'Compare and refine logical model

Brend of Bizma

Physical DB Design 2) Choosing storage formats for each Attribute Is Grouping attributes into physical records b Amanging records in secondary formet memory forettieient access Deliverrables & contromes: L logical design: Normalize relations L' physical design, Database fables with. specifications Relational 03 Models L pata as related tables / relation L' Relations: table with columns and roces L Relations have simple entries, column consistences

Oniques rows

Well structured Relation
L minimizes redundancy

Le supports insertionses, modifications

The Deal Deal

Normalization: Converting complex data to simples structure

Normal Form:

LINF: Unique rows, no multi-valued LINF: Non-Key attributes dependen LINF: Non-Key attributes don't depend on each other.

Functional Dependency! Attribute B depend on A it each value of A suniquely deter. Designing Forms and reports (en 10) > forms vs Reports => Form: Business Document containing pre defined data, whith spaces for additional data (instances) - S Report: Basiness document with only perdefined data, often for reading or viewing Common Types of Reports: scheduled Key-indicator Exception drill-down fad- noe

Process of Resigning forms & Reports User-to cased protoutyping approach understand user needs & lasks Ly use wire frames - For layout Iterative process until Deliverables & soutemes: -> Design specifications with am namative, simple design & weality Day of the doctor in

more important things to consider: L) Aesthetimes, emphasis color uses D) mixed case, left justification 2) clear and separate column labels 15 Use graphia to summaries, display from de Anothe English Sens e- fill of the fair, a voggne enganiart. Man a la la facilità de la facilità del la facilità de la facilità

chapter 13 (system Implementation)

Converting final physical system speaketing

Documenting the work, + providing user nelp.

Coding > testing > installation & documents
training > support

Soft. App. testing:

-> master trest plans unit, system, integration toot plans.

tost plans.

> tests done daring implementation.

Types of lests L'organic L'Automated L'organic L Functional Testing Much last - Non- Functional testing @ Document specific test senscenarios @ Aceplance Testing L'Alpha (simulated data)

L'Beta (real data) part = project revenus contract

Direct, Parallel, single-location

Installation

Planning installation by data

conversion, error correction, sys.

Shatdown

2) Documentation Documentation (point pour)

Lusar Documentation (pour to use the sy)

-) Project - close - down by terdirating

team, reassign, notify stakeholders

post - project reviews, contract close out.