S/E Engg. 4) 91 is the Systemetic, desciplined, costeffective techniques for &for development. +) Engineering approach to develope a spo Realisement Analysis, physicility study, planing implemention, dog designing, maintainence, planing approaches combined to develop a spw. That approaches called Engineering 3 Step by Step systematic approach lo 1945 - 65 (Origin) 1965 - 85 -> chisis (.86; los) 8/w are developed at that time only 27. at that time only 27. If we are delevered or actually used eg. 01/360 \$ 05 a Faliene appray 1990 - 2000 - Interned (PC of regularing) 2000- 2010 - light weight (mobile 05) 2010- Till -) AT, ML, OL

8/w chistres Problem with 8pw? The mojor problem with Current Scenerio in 8/10 industry of sto whealty overnue their divelepondent cost, they enced they divelopment dunation limits, are unely poor anality channeter stice -> che correctness ... The ability of a Sto lo penform its wintended tolu effectively and meet wer requirements. > Usability: - The ease with which wer can leann, openali and I do wit (let to Reliability: - replu loftwares couristeray producing accumate Reputs maintaining perforhance over time Efficiency: - . The optimal live of history desource; such as memory 2 procuring power to achein desired out comes. > Maintainasility: - The ease of updating, modifying and fixing the spo to accomodate changing recuirements or

portability: - the ability of the envisnoments without modifing cations. a scalability: - The 8/00's capacity lihandle increased workloads or user demands without componenting performance -> Security: - The Stw's ability la profect against un authonited access, dala breaches and other potential threats. -) Modulani by :- The degree to which the spais component are organized into Rependi manage able renits 1 that can be independently developed or updated. -) Remastilig is the 8/w Componente to be used in other applications or content reducing the development time 2 cost. Major problem En 8/w Developmen 1) gradequali Requirement- Gathering Il Ambigions or in complete Revenirement I her of commencation between Statishold 2) Poor project management -) In adequate planning, monitoring & Control

-) sor Luck of Risk aresment. I control

-) multiplication of 8fw alwelsprunts life cycle

- Lecture Loone. > selection of wrong technology Scanned with OKEN Scanner

Inhifficient time a Budget ? Unrealistic budge deadlines & And resource contains -) snrufficient resource allocation prioniti tation. (A) Lacy of skilled personal: -) Inadequale expertise in the development team: High Low turnover natis & loes of experienced staff. (S) Revistance là change: or processes thebring pricesses b) wrong motivation technique! Softwake Process 4) A spor process Calso wrown as methodolog es a set of related activities that. heads to the production of the 8/0. These activities development of the Efw from the Scratch modifing an exerting system 1) fear bility study in the +) Hostract, defination of the protten checking the financial à technical +) Analysis + cost & benefits

+) checeing the availability of enfour infrastructure à huaren Resource. 2) Reduirement Analyses & specifican. 4) Understand the exact & complete require property. It he customer & document them 4) Try to collect & analysis all data related to projects. Ar) A document will be whitten in the natural Lunguages which will describes to without describing it has called SRS C Stor Resner enent speak 3) Designing mond of blood to Adatte. 4) we transform the requirement : ento a structure cie snitable for complement. of the code on a specific programing *) * we prépare a document calle 300 (8/0 Blevelofoment Desemiption) 4) Coding translati the design of the System into 4) a code of programming language. 8) 91 affects both testing 2 maintean ence

