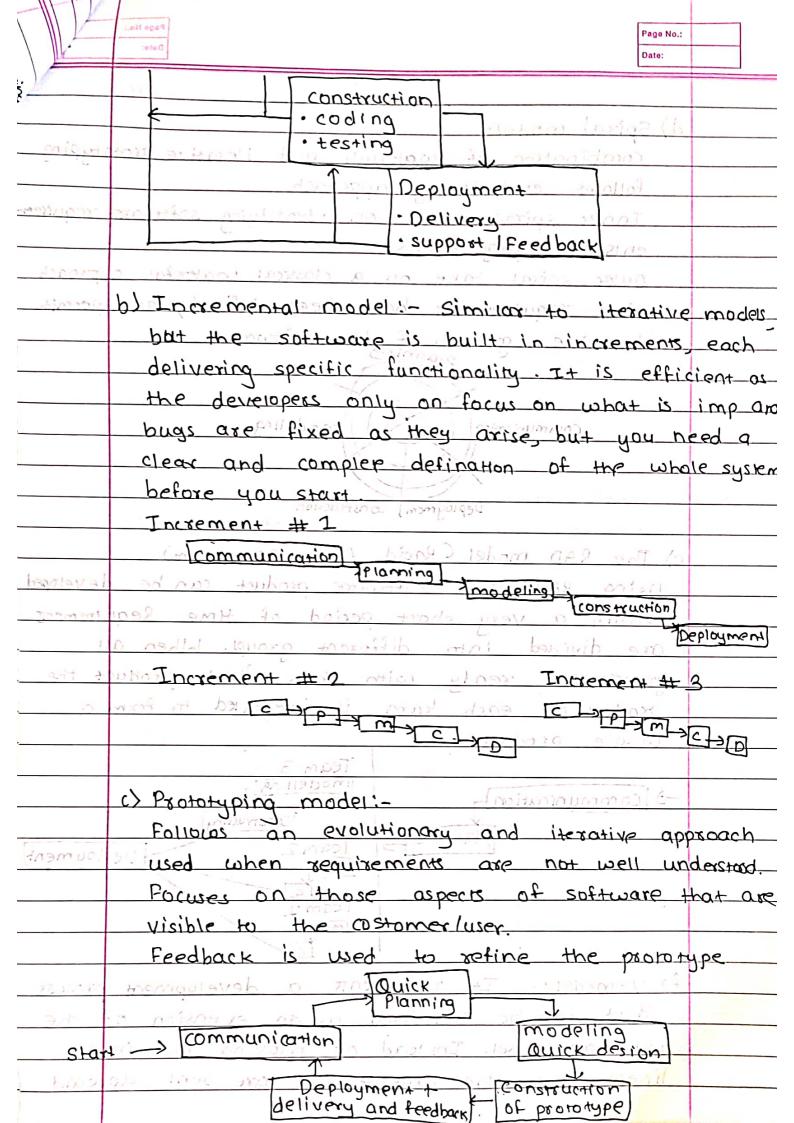
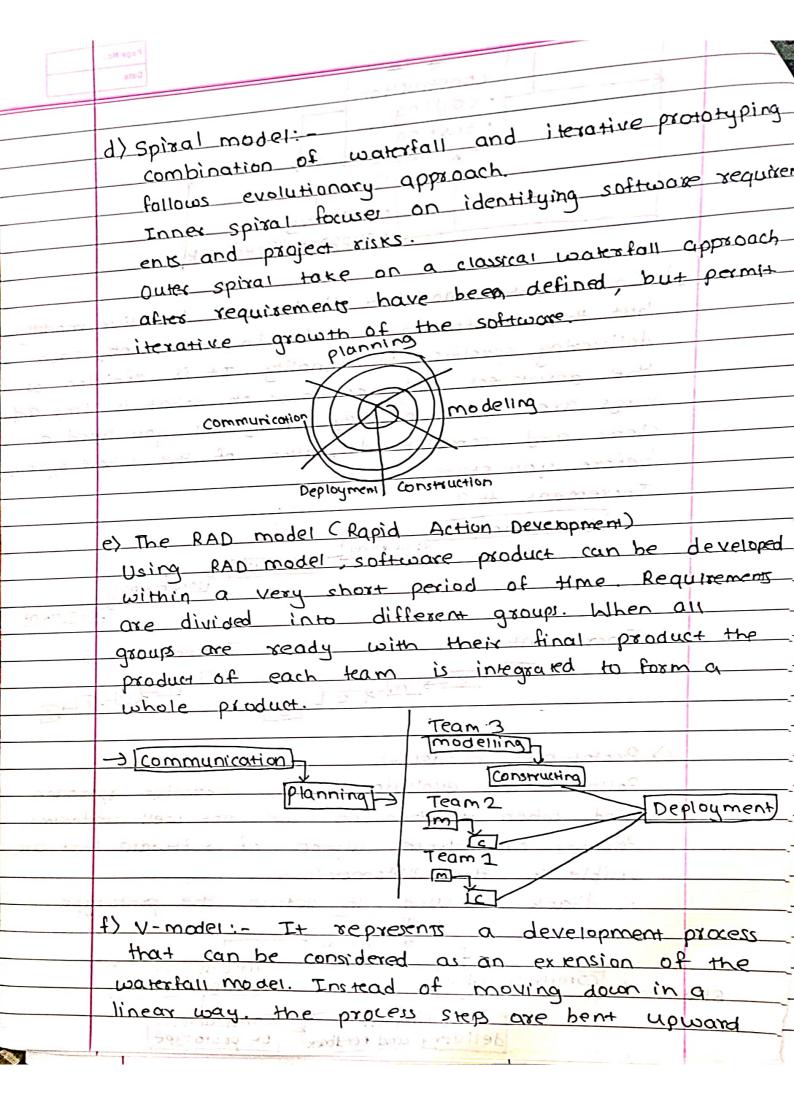
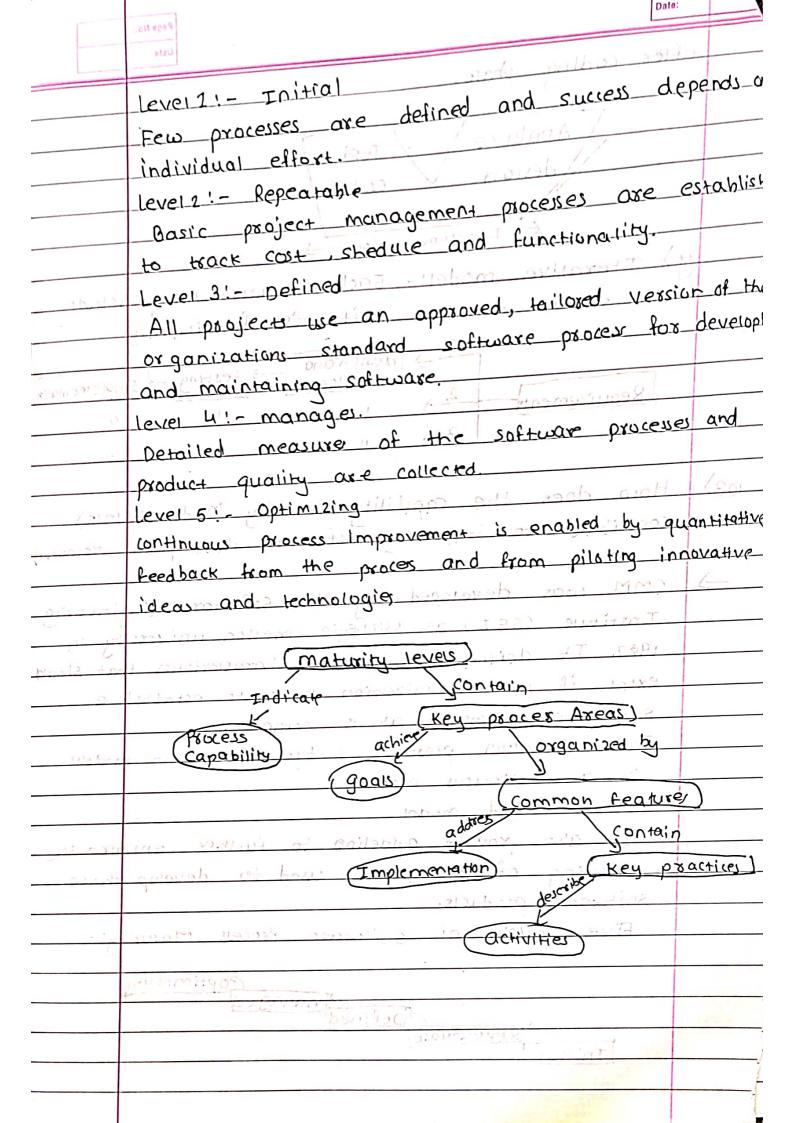
SE Assignment 1

What is significance of recognizing software requirements in software engineering process? Requirements engineering is the process that of identifying, eliciting, analyzing specifying, validating and managing the needs and exceptions of stareholders for a software It is an iterative proces that involves several steps: 1) Requirements Elicitation: - This step involves seve intriview surveys, focus groups and techniques to gather information from stakeholder about the needs and 2) Requirements Analysis := This step involve analyzing the gathered information to identify the high-less goal and objectives, any constrainte or limitations of the software system. 3) Requirement specification: - This step involve docum. enting the requirements in a clear consistent and unambiquous manners. It involves prioritizing and grouping the requirement into managable chunks 4) Requirement validation: - This step involves checking that the requirements are complete, consistent and -accurate ait also involves checking that the requirement are restable and that they meet the need and expectations of stakeholder. 5) Requirement management: This step involves managing ! requirements throughout the software development life cycle including tracking and controlling changes and ensuring that the requirements are still valid and relevant.







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where changes can be expensive and risky. b) V-model (validation or verification):- For proje that require a strong forw on testing and val like safety systems or financial software the v-r ensures a systematic approach to veritying ar validating each development phase in parallel. c) Incremental model: - When a project has a tight schedule but the full set of requirement can't b defined upfront the incremental model works wel Its suitable for projects involving e-commerce platforms where features can be developed andondeliveredmin stages- una de la rupar am d) RAD model! - It is useful in scenarios where there's a need for rapid software development and quick delivery typically in busines-tocused project for eq :- (ustomer sciationship management corn) system for a sales kam that requires constant updates and improvement to stay competitive e) The prototype model! - It is beneficial when the client's requirements are not well-defined or are subject to frequent changes. When creating a user interface for a new mobile app, using a prototype allows stake holder to visualize the design early on and provide feedback for requirement before the final product is developed f) spiral model: In situations where the project involves an high level attivisk cassesment and continuous refisement such as large scale government projects , this moidel provides - and structured i approach for iterative developments while managing risks effectively plansh maker -180 200 dayline as