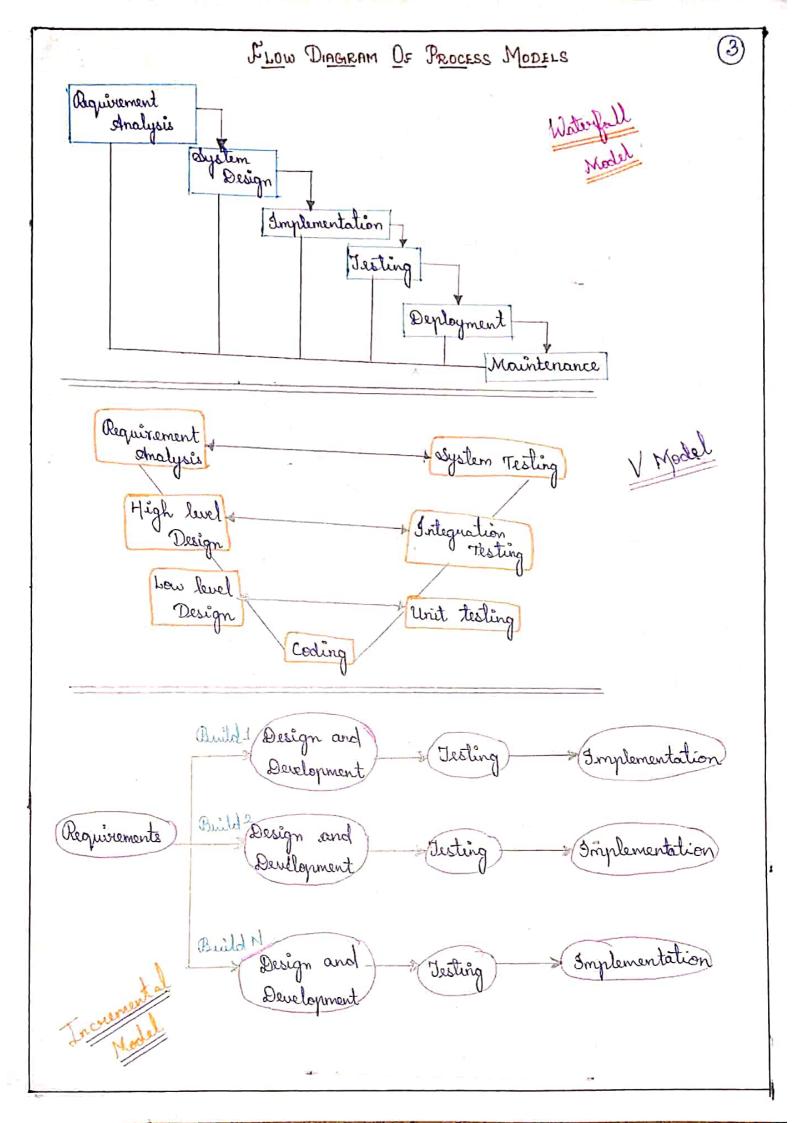
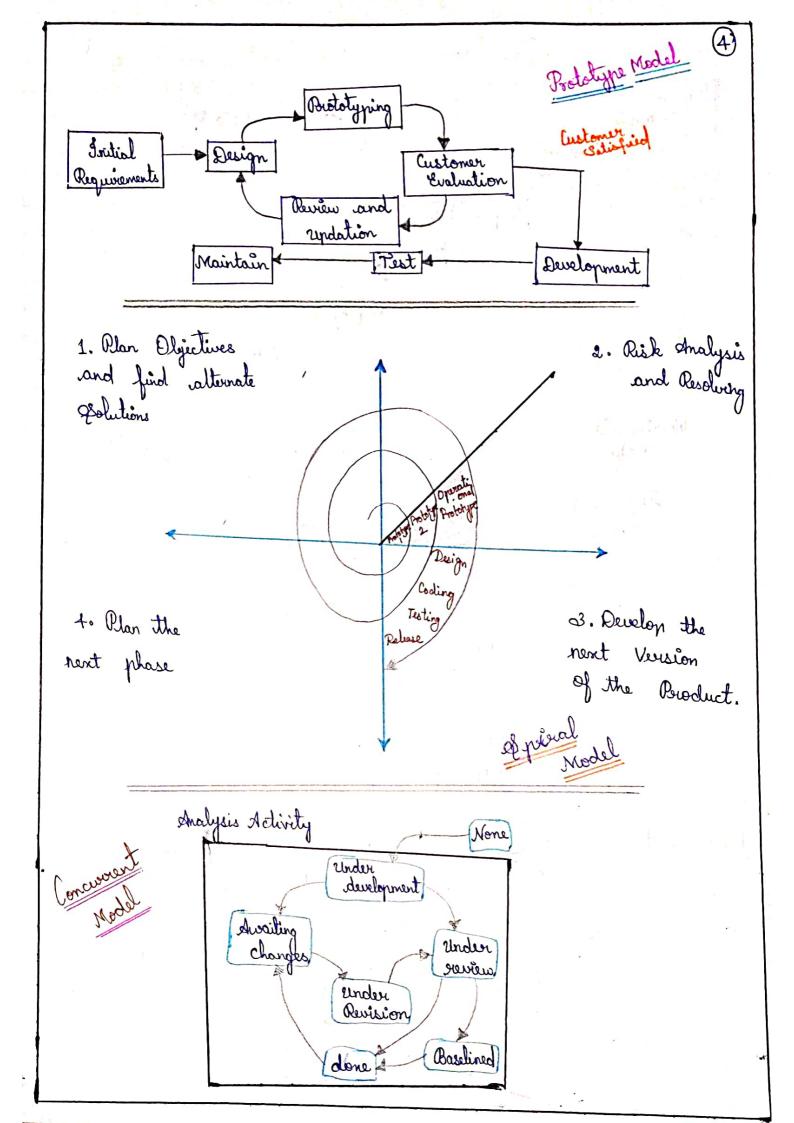
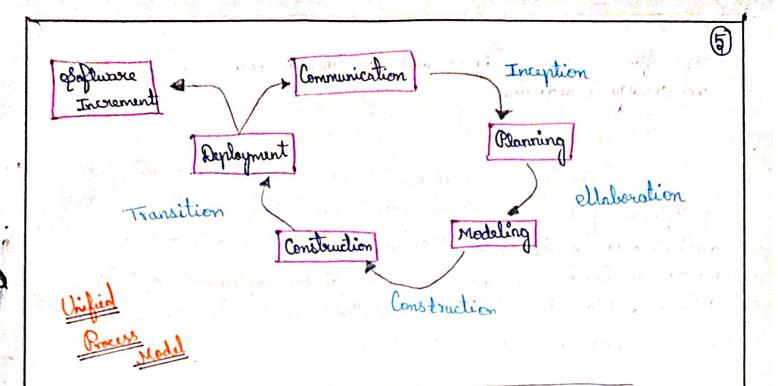
1. Comp	rare the Van	ious Softw	are develop	ment med	ies model	?	
PARAMETER	MODE L	V MODEL	INCREMENTAL MODEL	PROTOTYPE MODEL	SPIRAL MODEL	CONCURRENT MODEL	UNIFIED PROCESS MODEL
Definition of the Chacers Model	It is a sequential, plan driven process where you must plan and schedule all your activities before starting the project.	noienetre no si Uspetous ett fo ett Uk lebon ero shuneriuper to bereiteg	system's furtion into small increments that are delivered one after the other in quick succession. The most important functionality is involunted in	fanou medil. In this medil chied is also involved at the time of designing the exposer. It is also nealified	Software process models, its estima aren't activities but phases for addressing whatever problem hoster greatest	They are essential	that use the Unified Model
Cost	Low	High	High	High	High	Low	High
Places	Requirements, Design,	Verification	Analysis,	Requirement Gathering & Shalysis,	Planning, Design,	Requirement Analysis, High Buel	Inception, Soberation, Construction,
	Zonplementation, Verefication, Deployment, Maintenance.	Validation plases.	Design b Development, Testing, Implementation	Buick Design making,	Conjunction	Pesign, Detailed Design, Coding, Implementation	Production.

	Same in the same of the same o	insedian en	many distribution of	Butotype Refinement, Building the final Aroduct, Maintenance.	e de la compansión de l	a sa la di Ingeri Generalia Generalia Generalia	gy dennyn is generalyn is an Tyst yelloch
Advantages	stages and milestones.	stage. 2. Rigorous	working product at ach incremed in accordance to a constall incremental incremental	user feedback. 2. Enhanced Consumication.	1. Incorporates wisk analysis & management, 2. Iteritality to accommodate charges during the dauelepment process.	1. Evely 1. Faster Execution. 2. Resource utilization.	1. Herative and Incremental Development. 2. Collaboration and Communication
Disadvortoz	fluidility to accommodate changes.	with the laws	1. Can lead to issues if the overall system architecture is not well defined.	1. Risk of Miscommunicatio 2. Misleading Users.	1. Complex & may require expertise in such analysis 2. Can be time Consuming and Costly.	Inconsistencies.	1. Overemphasis on planning 2. Not ideal for small Brojects.







descent you are a software designer involved in the development of library authorization software. What lould be your choice of Software process model for developing library autentication software. Justify your choice.

Answer:

The choice of a Software process model depends on various factors, including the project's Complexity, requirements clarity and development team's experience. For library authentication software which typically involves security Considerations and may have evolving requirements, an iterative and incremental process model such as the style model, would be a suitable choice. Justification for selecting the Agile model.

1. Flexibility and Adaptability

privilered severalication software often involves surviving requirements especially in the Context of security updates or Changing user reeds. The edgile model allows for frequent recurrence or changing requirements, ensuring that

6

and security standards.

2. Incremental Development

The Igile model encourages incremental development and oblivery of Software features. For library authentication, this means that essential authentication functionalities Can be developed and delivered in smaller, manageable increments. This allows for quicker deployment of Critical features and facilities negular user feedback, enabling the Software to meet the users needs more effectively.

3. Freequent user feedback

Security software like library authentication systems, sequires a hair understanding of user needs and potential vulnerabilities. The dish model emphasizes customer Collaboration and regular feedback, allowing for Continuous impossed based on real-world usage & user input. This iterative approach helps in identifying and addressing security concerns promptly.

A. Risk Monagement

Security is a Critical role of library authentication system software. Agile's iterative and incremental development approach enables the identification and mitigation of risks everly in the development process. Regularly assessing and adapting to changes ensures that potential security vulnerabilities can be addressed proachisely.

5. Transporent Communication

The Agile model encourages open and transposent Communication within the development team and with stakeholders. This is Couried for security-related priojects where clear Communication is essential to understand and implement security measures effectively.

6. Quick Time-To- Market

Libraries often need authentication systems that Can be deployed rapidly to meet user needs, expile's iterative development and incremental releaser allow for quicker time - to- market Compared to more traditional, sequential models, ensuring that the Software Can he delivered in a timely fashion.

The Agile model is well-suited for the development of library authétication software dule due la ite flexibility, adaptability, emphasis on frequent user foedback, effective rise management, transparent Communication & quicken time to-market. These claracteristics align well with the evolving & Security-sensitive nature of authenticator

3. Describe the stops in the requirement gatherings.

Solution:

other 1: Assign roles

The first step in sequirements gathering is to assign notes in your project. This is when you identify your project stakeholders I stakeholders is anyone invested in the project, whether they're internal or external partners. For example, a customer is an external stakeholder. Hentifying these notes first will help you determine who should analyze your project scope later on.

option 2: Neet with Stakeholders

Once you've identifiéed your project Stakeholders, meet with than to get an idea of what they've hoping its get out of poseject. understanding what stakeholder want matter they're ultimately the ones you're creating your deliverables for.

Some Questions you can ask include:

1. What is your goal for this project?

2. What do you think would make this project successful?

3. What are your Concerns about this project?

4. What do you wish this product or source would do that it doesn't already?

To what charges would you recommend about this project?

The Stakeholders are the people you're ultimately developing the Project for, so you should ask them questions that can help you Create your list of requirements.

Aty 3: Grather and Document

Otten three in the process happens at the same time as step 2. You'll gather information as you ask your stakeholders Questions. The goal is to document everything you can, so how all of the answers you need to start your project. Use a project management tool to collect and document this information. You can been your project plan, project requirements and project communication all in one place. The document might have

- 1. Stakeholder answer to interview Questions.
- 2. Stakeholder questions
- 3. Stalkeholder suguests
- 4. Stakehelder Comments
- 5. Questions & Comments that arise during interviews,

often 4: List Assumptions and Requirements

Coeste your requirements management plan based on the information you've gethered. Consider the questions you initially set out to answers during the requirements gethering process. Then, use them to Create your requirements goals including

- 1. Length of Project Schedule
- a. People involved in the Boyect
- 3. Project risks.

Aten 5: Get Approval

Once you formalise your project requirements, you'll need approval from stakeholders to ensure you're meeting user needs. Encouraging clear Communication Can also prevent scope Group by ensuring your stakeholders know the limits of the project from beginning.

often 6: Monitor Progress

The last part of the Process is monitoring the Progress of your project. You can use project management software to toack your project budget and other requirements as you move through Project execution.