1. Identify scenarios, develop suitable process model and draw Use case and Class Diagram for the given problem.

Name of Student	Hardik Prajapati	Roll No.	9152
Sign here to indicate that you have read all relevant material provided /available on Moodle while performing and writing this experiment		**Sign:**	

Late Submission Details (if any)

Reason(s) of late submission	Date of practical performance	Date of practical submission

References used

1	Name and author of reference book(s) with page nos.	
2	Name and roll nos. of the peers whose help you have taken (if any)	

Rubrics for assessment of Experiment:

Indicator	Poor	Average	Good
Timeliness Maintains Experiment deadline (3)	Experiment not done (0)	One or More than One week late (1-2)	Maintains deadline (3)
Completeness and neatness Complete all parts of Experiment (3)	N/A	< 80% complete (1-2)	100% complete (3)
Originality Extent of plagiarism (2)	Copied it from someone else (0)	At least try to implement but could not succeed (1)	Implemented (2)
Knowledge In depth knowledge of the Experiment (2)	Unable to answer any questions (0)	Unable to answer few questions (1)	Able to answer all questions (2)

Assessment Marks:

Timeliness	
Completeness and neatness	
Originality	
Knowledge	
Total	

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Department of Electronics and Computer Science

Signature of Teacher with date

1.	Course, Subject & Experiment Details

Course & Branch	T.E. (ECS)	Estimated Time	02 Hours Per Week
Current Semester	Semester V	Subject Name	SE
Chapter No. & Unit	(Pre-requisite)	Chapter Title	-
Experiment Type	Software Performance	Subject Code	ECC 503

2.	Aim & Objective of Experiment

1. Construct suitable software process model for the given problem
2. Identify different scenarios for the given problem and draw use case and class diagrams

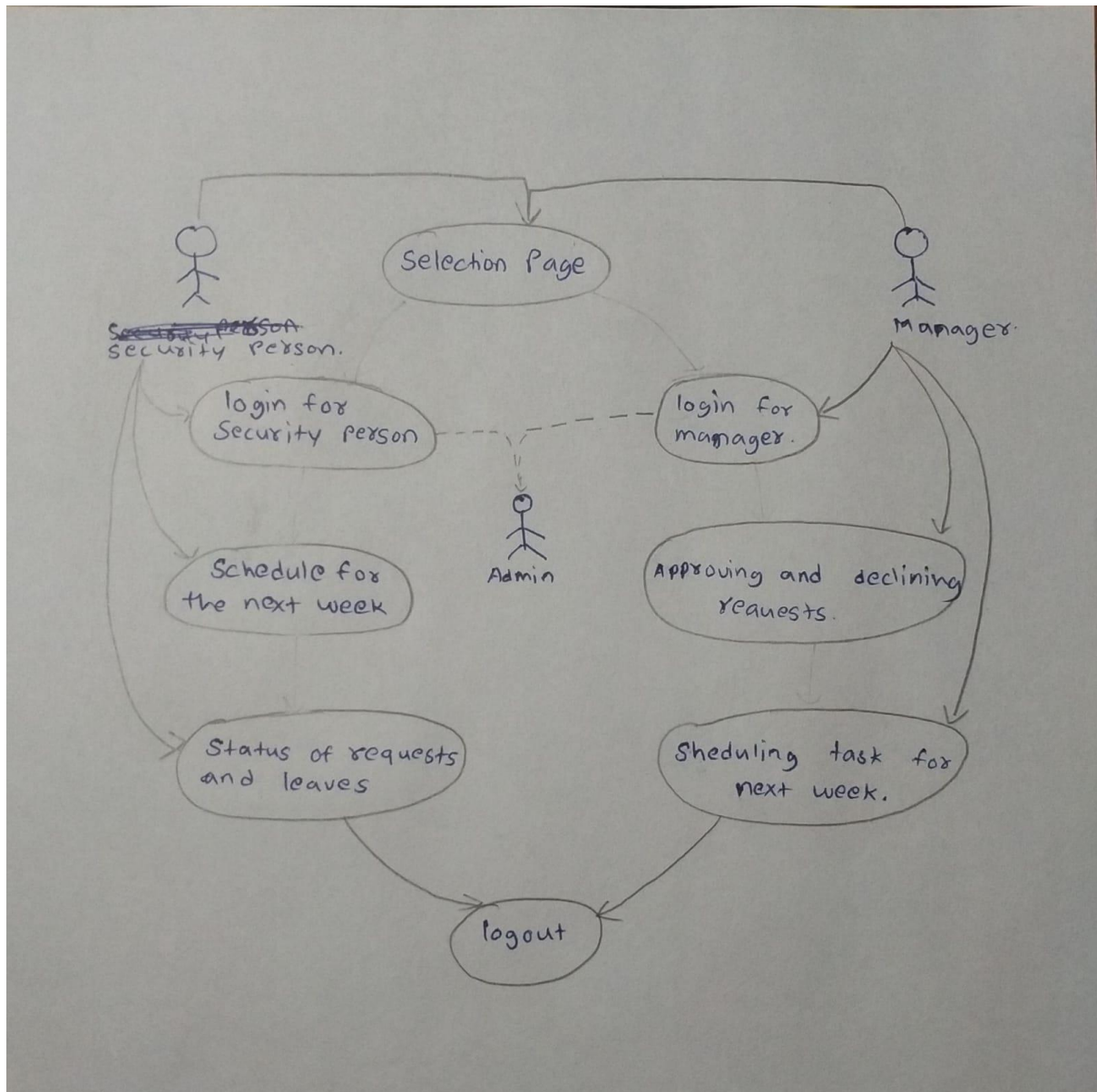| 3.	Expected Outcome of Experiment

1. To understand the mapping between existing software process models and their problem statement
2. To convert the given problem statement into use case and class diagrams

4.	Brief Description of the experiment

a. **Identify different scenarios and construct suitable software process model for the given problem statement. Justify your answer.**

The waterfall model is a sequential, plan driven-process as it doesn't require too much of time to plan initial stages. Moreover it is faster in execution hence, the end product comes out faster than other models. That's why we are using waterfall model.

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Experiment No. 2 – Process model and different types of UML diagrams

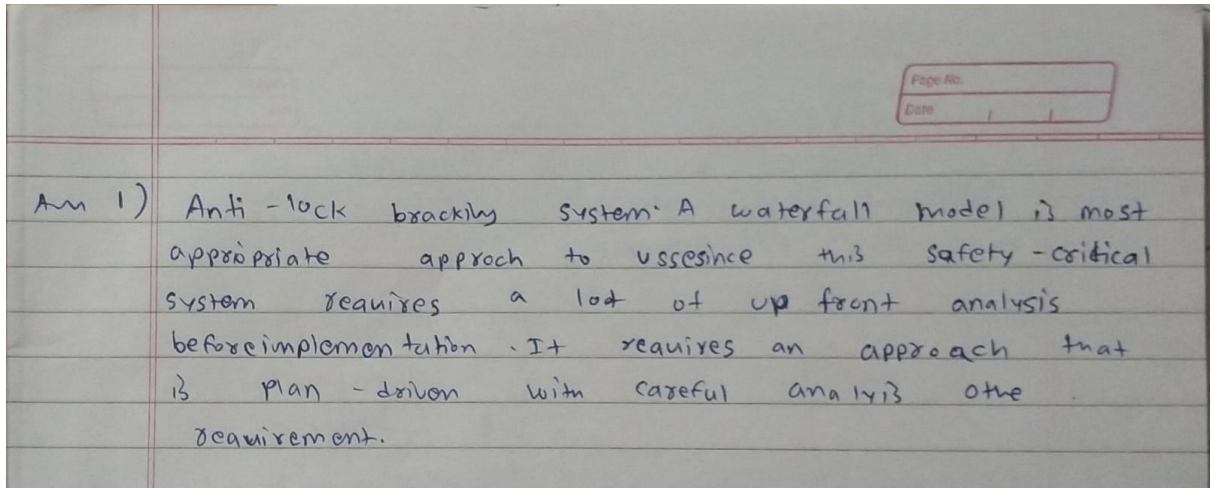b. **Draw use case diagram and class diagram for the given problem**
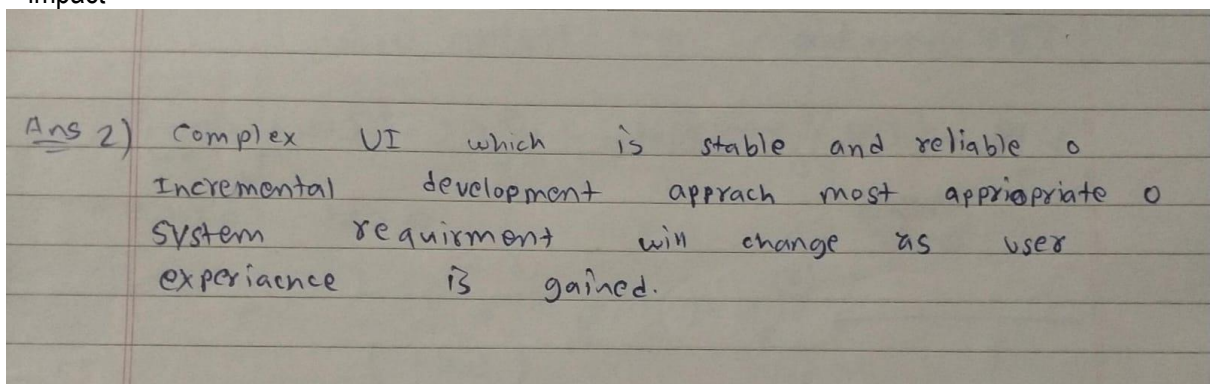

5. **Conclusions & Inferences**

6. **Post Lab exercise**

Suggest the most appropriate generic software process model that might be used as a basis for managing the development of the following systems. Explain your answer according to the type of the system being developed
   1. A system to control antilock breaking in a car

Ans 1) Anti-lock brackily system. A waterfall model is most appropriate approch to ussesince this safety-critical system reauires a lot of up front analysis beforeimplementation. It reauires an approach that is plan-drivon with careful analyis othe reauirement.

2. An interactive travel planning system that helps users plan journeys with the lowest environmental impact

Ans 2) Complex UI which is stable and reliable o Incremental development approch most appriopriate o system reauirment will change as user experiacnce is gained.

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