IT561 - ADVANCED SOFTWARE ENGINEERING
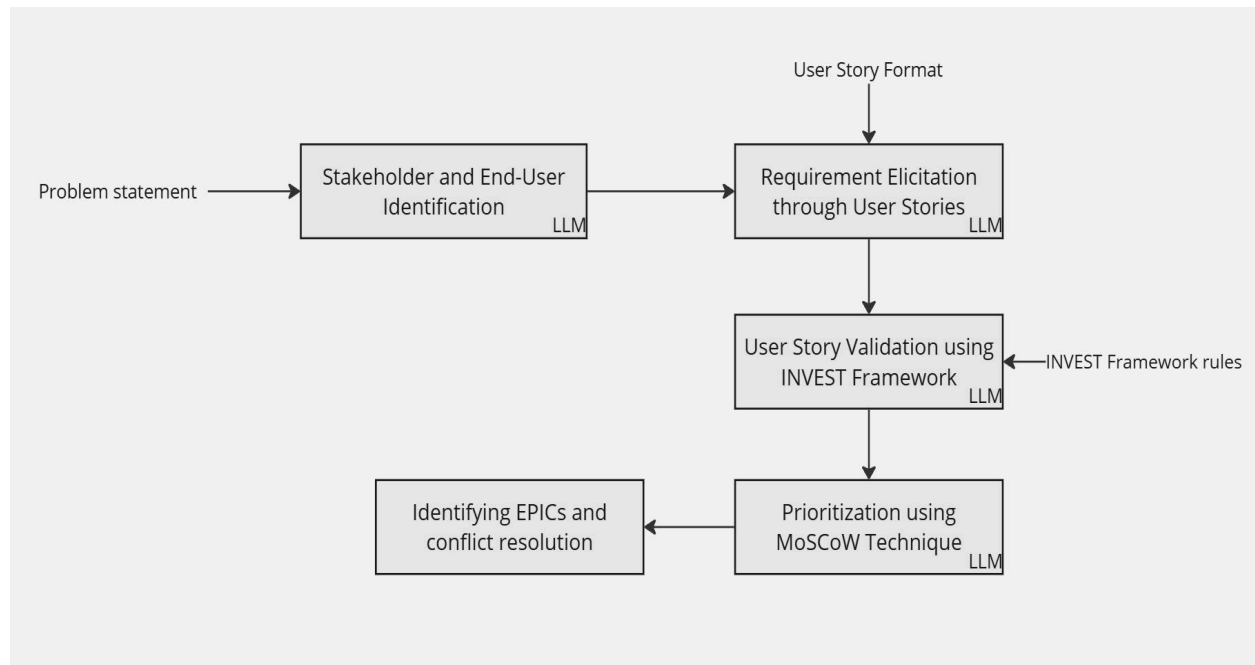
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Topic: GenAI for Requirements Engineering
First-In Semester Examination (Winter 2024-25), February 2025 **(Set A)**

PART B

- **Display your pipeline for generating and validating each user story through a block diagram or any other diagrammatic representation. (Hint: You may refer to the research papers discussed during the lecture sessions.)**

RUST Questionnaire :

Readable (R)

Questions	Gemini	Mistral	Llama	Deepseek	Manual
How readable do you think these user stories are?	High readability with clear sentences	Readable but with a bit less understandability	Readable with some inconsistencies	Good readability but responses are talkative	Good readability
How grammatically correct are the user stories?	Very high grammar accuracy	Mostly correct	Some grammar inconsistencies	Good grammar	Good grammar

How do you rate the accuracy of the spelling in the output text?	Excellent spelling accuracy	Good accuracy	A few typos	Good spelling accuracy	Excellent spelling accuracy
Are the descriptions too verbal and contain redundant information?	Concise descriptions	Slightly more detailed but they are well structured	Some redundancy	Too verbal in some sections	Slightly detailed
How readable do you think these test cases are?	Very readable	Readable but there are lengthy descriptions	Some readability issues	Readable but too detailed sometimes	Readable

Understandable (U)

Questions	Gemini	Mistral	Llama	Deepseek	Manual
How	Very	Mostly	Fairly	Accurate	Mostly

would you rate the accuracy of the semantic meaning in the user stories?	accurate	accurate	accurate with some misinterpretations	but too verbal	accurate
How would you rate the clarity of the language used in the user stories?	Clear, simple language	Somewhat technical language	Moderate clarity with some inconsistencies	Could be more direct	Fairly clear
How comprehensible were the user stories provided to you?	Highly comprehensible	Good but needs slight simplification	Some re-reading is required	Could be more concise	Good comprehensibility
Did you encounter any difficulties in understanding the content of	No	Occasionally	Occasionally	No	No

the user stories?					
Did you feel confident in your understanding of the objectives and requirements outlined in the user stories?	Yes	Mostly	Fairly	Well-defined	Yes

Specificity (S)

Questions	Gemini	Mistral	Llama	Deepseek	Manual
Did you find the user stories contained sufficiently specific information to estimate the effort required for implemen	Very specific	Mostly specific	Lacks some specificity	Specific but overly detailed	Specific

tation?					
How well-specified were the acceptance criteria outlined in the user stories?	Well-specified	Clear but slightly detailed	Acceptance criteria could be more structured.	Well-defined but a bit verbal	Well specified
Were there any essential details missing from the user stories that you believe would be crucial for effective implementation?	No	In some cases	In some cases	No major missing details	No major missing details
How well-specified were the test scenarios outlined in the test	Very well-specified	Mostly well-defined.	Could use more structure.	Well-defined but lengthy.	Well-specified

Questions					
cases?					
How confident are you in breaking the stories down into multiple sub-tasks given the specifications?	Very confident.	Confident	Some uncertainty	Confident but over-explained	Confident

Technical Aspects (T)

Questions	Gemini	Mistral	Llama	Deepseek	Manual
How well do the given test cases perform the technical requirements and the corner cases?	Well-covered technical cases.	Covered but sometimes overly complex	Not very covered	Good coverage	Good coverage
Do you think the design of the	Yes	Mostly	Some are lacking	Yes	Yes

deliverables complies with software engineering best practices?					
The user stories interpret the user/stakeholders' statements into technical language including technical details and insights.	Well interpreted	Mostly accurate	Lacks some clarity	Well-interpreted but too verbal	Well interpreted
The user stories adequately outline the technical requirements and constraints for the given tasks.	Clearly outlined	Mostly clear	Needs refining	Detailed	Clearly outlined
Were there	Minimal	Some	Noticeable	Mostly consistent	Mostly consistent

any ambiguities or inconsistencies in the technical details provided within the user stories?					