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MODULE 1 – REQUIREMENTS ENGINEERING

1.1 REQUIREMENTS ENGINEERING TECHNIQUES

INTRODUCTION

- Applying requirements engineering techniques allows Agile teams to:
 - polish the user stories and epics
 - add context
 - consider impacts and dependencies
 - identify any gaps, such as missing non-functional requirements.





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- Assist in Story Mapping and prioritization of epics and related user stories in the product backlog.
- Assist with identifying acceptance criteria for user stories and epics.
- Assist with selecting the right test approach based on the visual aspect on the system design.
- Along with Story Mapping, assist in prioritizing tests and in identifying needs for stubs, drivers and/or mocks.



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EXAMPLE – REQUIREMENTS ENGINEERING TECHNIQUES

- A BA working on an agile team has been tasked with eliciting and defining requirements for a new feature.
- This feature will be used by many people who come from a variety of backgrounds and situations.
- So, the BA decided that personas would be an appropriate technique.



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EXAMPLE – REQUIREMENTS ENGINEERING TECHNIQUES

- Here is what the BA learned:
 - Inexperienced users found the feature confusing.
 - Experienced users thought the feature lacked some things they felt were very important.
 - Younger users had no difficulty with using the feature.
 - Older users had trouble reading the font size.



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THE REQUIREMENTS ENGINEERING PROCESS

- Elicitation
 - The process of discovering, understanding, documenting, and reviewing the users' needs and constraints for the system.
 - Elicitation techniques should be used to derive, evaluate and enhance the acceptance criteria.

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THE REQUIREMENTS ENGINEERING PROCESS

Management

- As projects progress, opinions and circumstances might change.
- Even though acceptance criteria were properly elicited, documented, negotiated, and validated, acceptance criteria are still subject to change.
- Because of the potential for changes, user stories should be managed by using good configuration and change management processes.



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EXAMPLE - ELICTATION

• The BA asked the stakeholders, who agreed that applying international taxes is not a requirement at this time.



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EXAMPLE - ELICTATION

- The BA explained to the stakeholders that "timely manner" was too ambiguous and needed to be more specific.
- However, some stakeholders felt that 2 seconds was good, while others felt that 3 seconds was also good.
- It took several days to reach an agreement, which turned out to be a compromise – 2.5 seconds!



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