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Introduction

- Digital platform
 - Vital for capturing & evaluating project lifecycles
 - Facilitate collaborations among diverse stakeholders
 - Only as good as the context & information provided
 - Garbage In ⇒ Garbage Out
 - Requires quality inputs for quality outputs
- Need a versatile digital platform with multiple applications to aid in:
 - Requirement Management
 - Modeling
 - Simulations
 - V&V
 - Operation Support
 - Program Management





Streamlining Onboarding for New Users

- <u>Problem</u>: Onboarding new tools add to the user's workload and stress
- Digital platforms need to streamlining onboarding for new users:
 - Understanding the Platform: Familiarize users w/ platform functionality and features
 - Integrating Legacy Projects: Educate users how to align & integrate existing projects
 - **Team Collaboration:** Establish processes to collaborate effectively on the platform
- Leverage the resources for easier user consumptions:
 - Platform's Help Center database
 - In-house document files
 - Internet for supplementary guidance
- Need an EASY onboarding process



Enhancing User Experience w/ Innoslate

- Innoslate prioritizes user ease by facilitating the projects w/o adding complexity
- The platform currently has two process to aid users in the software:
 - Guided Tour
 - Allow users to select sample projects & access various tutorials
 - Step-by-step walkthrough and provides the project
 - Help AI Assistance
 - Utilizes Generative AI to present a user-friendly chatbot
 - Queries Help Center database to fetch relevant answers from user's prompt
- Will be leveraged to be more interactive
 - Utilize existing processes as a foundation
- Help guide users to their projects while adhering to MBSE principles



Innoslate's Guided Tour

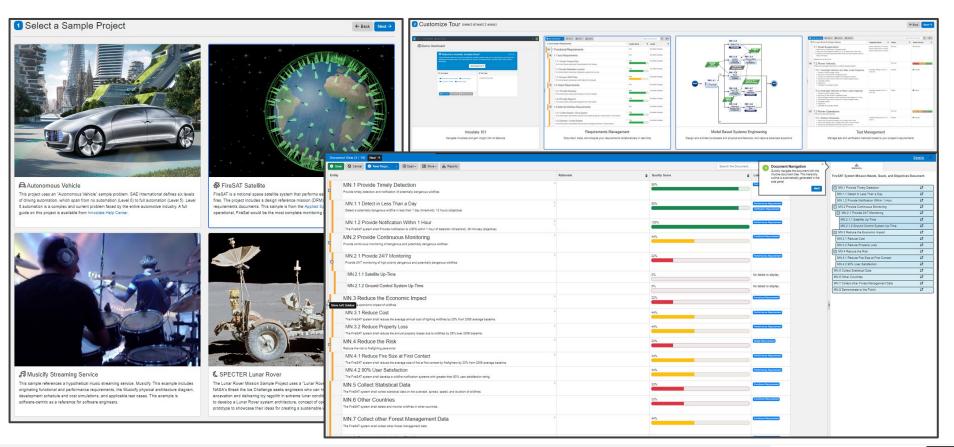
Innoslate's Guided Tour

- Innoslate's 'Guided Tour' is available to all users, including free trial users
- The guided tour allows users to choose:
 - Sample Project
 - Tutorial Module(s) (e.g. requirement management, MBSE, Simulation, Project Management, etc.)
- The tour focuses on the project and selected modules
- Guided Tour steps through the process with the user
 - Identifies markers and provides indication of features
 - Brief statements about the features and how its used
 - "Next" step to provide feedback to continue with tutorial
- Facilitates a guided learning process for the user





Innoslate Guided Tour View



Optimizing User Experience through the 'Guided Tour'

- The user's feedback is the 'Guided Tour' provides valuable information and assistance
- 'Guided Tour' layout offers a comfortable format, aiding user retention and adaptability to platform
- The 'Guided Tour' layout serves as an ideal starting point for interactive user experience
- Interactive experience emphasizes hands-on approach while effectively utilizing:
 - Feature location indicators
 - Contextual information
 - Guidance for next steps

Innoslate's Al Assistance

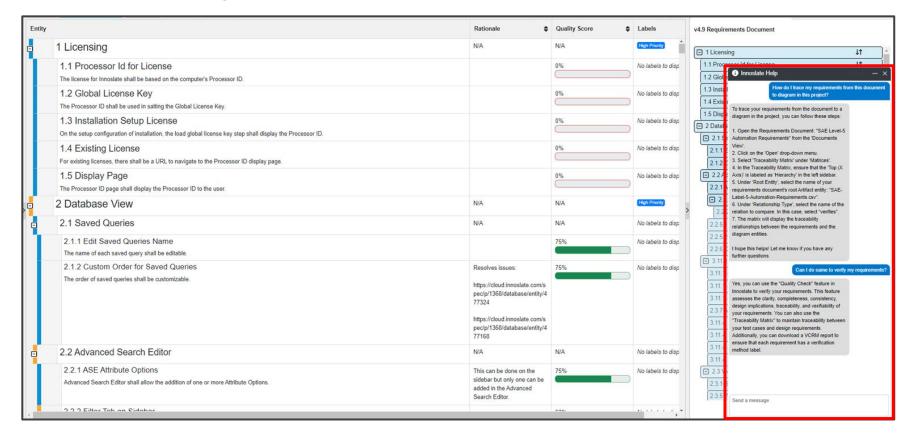
Innoslate's Help Assistance Al

- Innoslate has a extensive knowledge repository:
 - Guides
 - Video tutorials
- Al provide efficient access to platform information
- Generative AI integration streamline user interactions
 - Prompt-based information retrieval
- Enhances accessibility and speed
- Benefits the user:
 - Instantaneous information retrieval
 - Intuitive & comprehensive platform understanding





Innoslate's Help Assistance Al View





Leveraging Generative AI for Enhance User Experience

- The Help Assistance AI allows access to utilizing generative AI
- Generative AI enhances user support
- Enabling users to seamlessly access additional context during interactions
- Augments contextual information, enriching the user's understanding and engagement

Interactive UI Process

Innoslate's Interactive Approach

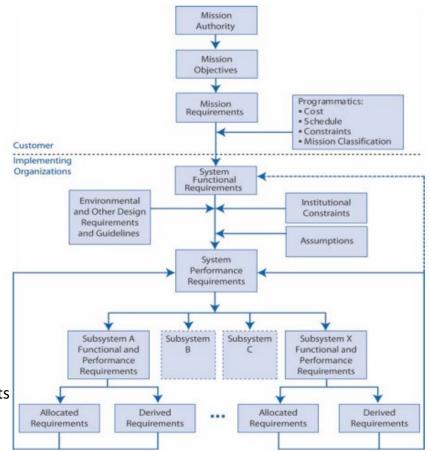
- Optimize system engineering understanding and proficiency through interactive features
- Design an intuitive approach, user-friendly interface to engage users
 - Users learn by actively engaging system engineering principles
 - Showcase hands-on demonstrations to reinforce understanding of key concepts
 - Confidence building for users in the tool & following the processes
 - Allows users to set the pace
- The principles that will be heavily focused are:
 - Requirement Documentation
 - Modeling Existing Systems
 - Mission Modeling
 - Project Planning
 - Building Test Cases





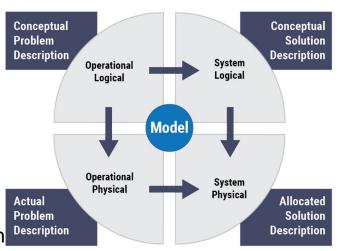
Requirement Process Breakdown

- The requirement process is broken down into:
 - Importing existing requirement documentation
 - Utilize platform features to analyze requirements
 - Performing Requirement Analysis
- Utilize the Import Analyzer to import legacy requirement
- Provide oversight on requirement features to aid users
 - Quality Checker Feature
 - Use NLP to score requirements based on good requirement attributes
 - Baseline Feature
- Performing requirement analysis
 - Determine requirements constraints and goals
 - Determine acceptable requirement characteristics
 - Ensure traceability for verifying and validating requirements



Modeling Existing Systems Process

- The modeling existing system process is broken down into:
 - Importing existing legacy systems
 - Selecting best diagram in modeling their systems
- Import data and information from legacy systems
 - Preserve valuable historical data
 - Reduce manual data entry
 - Ensure data is accurately inputted
- Provide diagram options for visualizing and modeling systems
 - Enhance system understanding and communication
 - Tailor models to enhance visualization to specific user preferences



Mission Modeling Process

- The mission modeling process is broken down into:
 - Selecting best diagram for mission modeling
 - Establish foundational framework and arrangement for mission system
 - Integrate the behavioral aspects of the system into the model
- Tailor diagram(s) to effectively convey the mission
- Provide brief overview of model constructs
 - Showcase behaviors and interactions within the system



Project Planning w/ Interactive UI

- The modeling existing system process is broken down into:
 - Present users with options for project planning
 - **Timeline Diagram:** Visual representation of the project plan over time
 - Kanban Board: Efficient task management and progress tracking
 - **Gantt Chart:** Display project tasks, timeline, and dependencies
 - Guide users through implementation of selected project planning options



Building Test Cases w/ Interactive UI

- The building test cases process is broken down into:
 - Utilize the platform to efficiently generate test cases
 - Provide traceability for test Cases to corresponding requirements
- Emphasize user knowledge for effective traceability in the Verification & Validation (V&V)
 process



Understanding the Interactive UI Process

- The Interactive UI Process is seamlessly integrated and accessible within the platform
- Users have ability to toggle the interactive UI process on and off
- Guide users through a step-by-step walkthrough
 - Providing feedback based on inputs their inputs
- Process utilizes user input to enhance the interactive experience
- Interactive process shall be focused on user's input
 - 'Next Steps' are presented in a sequence of binary response format
 - Pre-set conditions evaluate if the user follows process correctly ensuring a structure user experience
- Prompt the user to indicate their position within process before initiating the interface



Benefits and Outcomes

- Provides hand-on demonstration for comprehensive understanding of the tool and systems engineering (SE) principles
- Build confidence in using the tool
- Engage in self-paced learning environment
- Interactive approach is unique and needed approach
 - Require to gather and utilize user feedback to enhance interface and content
- Provide groundwork for continuous learning, development, and innovations

Conclusion

- This method focuses on interactive and self-paced learning
- Meshing together the user's understanding of the tool & SE principles
 - It's a concept discussed but needs to be implemented moving forward
- Provide a hand-on approach for enabling users to deliver better-quality products and services
- New approach will be continuously tested

