ALBUKHARY INTERNATIONAL UNIVERSITY

SCHOOL OF COMPUTING & INFORMATICS

Course Title   :   **REQUIREMENT ENGINEERING**
Course Code   :   **CCE2233**

ASSESSMENT INSTRUCTION

Course Code	**CCE2233**	Course Name	**Requirement Engineering**
Lecturer			
Semester / Year	**2/ 2st Year**	Submission Date	**26th April 2024**
Assessment	**Group Assignment**	Weightage	**20%**

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ReqView

ReqView stands out for its ability to seamlessly integrate powerful functionality with intuitive design, ensuring efficient and effective requirements management for diverse project needs.

Features and Functionality:

Some key features and functionalities include customizable templates for requirement documentation, hierarchical views for organizing requirements, rich text editing capabilities, traceability matrix for visualizing traceability links, review and approval workflow, import and export capabilities, version control and history tracking, and cross-platform compatibility.

Fundamental Activities Process:

1. Elicitation: ReqView streamlines the process of requirements elicitation by providing tools for capturing and documenting stakeholder needs and requirements. ReqView's customizable templates and rich text editing capabilities enable users to capture requirements in a structured and organized manner.

2. Specification: ReqView supports the detailed specification of requirements, ensuring clarity, consistency, and completeness in requirement documentation. ReqView's hierarchical views allow users to organize requirements into parent-child relationships, providing a clear requirement dependencies and relationships.

3. Validation: ReqView facilitates validation activities by enabling users to define acceptance criteria, trace requirements to test cases, and track the status of requirement validation efforts. ReqView's traceability matrix feature provides a visual representation of traceability

Strengths:

ReqView's user-friendly interface enhances usability, enabling users to navigate the tool effortlessly and streamline their requirements management workflows. Furthermore, its flexibility and customization options empower users to tailor the tool to their unique requirements management processes and project needs, enhancing overall efficiency and effectiveness.

Jira

Jira, developed by Atlassian, is a renowned project management tool that has garnered widespread acclaim for its robust capabilities in handling software development projects. While primarily recognized for its agile project management features, Jira also serves as a potent requirement management tool, facilitating the capture, organization, and tracking of project requirements throughout the software development lifecycle.

Features and Functionality:

Jira offers a comprehensive suite of features tailored to requirement management. Users can create and manage requirements as issues, organizing them into customizable workflows and linking them to related tasks, epics, and user stories. Custom fields, labels, and filters enable users to categorize and prioritize requirements effectively.

Fundamental Activities Process:

1. Elicitation: Jira supports requirement elicitation through its issue creation and tracking functionalities, enabling stakeholders to submit, discuss, and refine requirements collaboratively. Customizable workflows and issue types provide flexibility in capturing diverse stakeholder needs.

2. Specification: Specification in Jira involves documenting requirements in detail, including functional and non-functional aspects. Users can use custom fields, attachments, and rich-text formatting to articulate requirements clearly and comprehensively, ensuring alignment across project teams.

3. Validation: Jira facilitates requirement validation through its workflow management and collaboration features. Stakeholders can review and provide feedback on requirements directly within Jira, enabling iterative refinement and validation. Integration with testing tools further supports validation efforts by linking requirements to test cases and tracking testing progress.

Strengths:

Jira's strength lies in its versatility and scalability, making it suitable for projects of all sizes and complexities. Its robust issue tracking and workflow management capabilities ensure transparency and accountability throughout the requirement management process. Integration with a wide range of third-party tools and plugins extends Jira's functionality, allowing users to tailor it to their specific requirements.

Notion

Notion is an app that combines note-taking, task management, and collaboration features in a single platform. It allows users to create and organize information using a variety of tools such as databases, boards, calendars, and more. Notion aims to streamline project management, knowledge sharing, and team collaboration by providing a flexible and customizable environment.

Features and Functionality

Notion is a versatile platform for project management and collaboration, offering customizable templates and a unified workspace. Its real-time editing, commenting, and access controls facilitate seamless collaboration, while rich content creation tools empower creativity. Cross-platform compatibility and integration with third-party tools enhance accessibility and streamline workflows, which makes Notion essential for individuals and teams.

Fundamental Activities Process

1. Elicitation: This involves gathering requirements from stakeholders through interviews, surveys, workshops, and observation. The goal is to understand the needs and expectations of users, customers, and other stakeholders.

2. Specification: Specification involves documenting requirements in a clear, unambiguous manner. This includes defining functional and non-functional requirements, prioritizing them, and organizing them into a structured format.

3. Validation: Validation ensures that the documented requirements accurately reflect the needs of the stakeholders and are feasible to implement. This involves reviewing requirements with stakeholders, conducting prototyping and simulations, and verifying that the requirements meet quality criteria.

Strengths

Integration Ecosystem: Notion integrates with a wide range of third-party tools and services, including productivity apps, cloud storage platforms, and developer tools. This integration ecosystem extends Notion's functionality and enables users to streamline their workflow by connecting their favorite tools.

Comparison between these 3 Tools using 7 Evaluation Views

EVALUATION VIEWS	RM/RE TOOLS		
	ReqView	*Jira*	*Notion*
Project View	Tailored for requirements management projects, supporting traceability and versioning.	Offers robust project support with features like Kanban boards, scrum boards, and customizable workflows.	Provides project support through task lists, databases, and project management templates.
User View	Emphasizes understanding user needs through traceable requirements and stakeholder collaboration.	Provides perspectives on user needs through user stories, issue tracking, and user role management.	Offers user views through customizable databases, collaborative documents, and feedback channels.
Product View	Focuses on requirements management functions such as traceability, reviews, and baselining.	Comprehensive tool functions for project management, issue tracking, and agile development processes.	Flexible tool functions including notes, databases, and integrations for various use cases.
Process View	Provides support for requirements engineering processes including traceability, reviews, and change management.	Offers method support for agile methodologies like Scrum and Kanban with customizable workflows and agile boards.	Provides flexibility in process support with customizable templates and workflows.
Provider View	Developed by Softec with a focus on compliance with standards and responsive customer support.	Supported by Atlassian with a strong market position and extensive documentation and support resources.	Backed by Notion Labs with a growing market presence and active community support.
Technical View	Focuses on core technical capabilities for requirements engineering tasks, with limited third-party integrations.	Highly capable and integrates well with various development and productivity tools through extensive plugins and APIs.	Capable of performing various tasks and integrating with some third-party services, but not as extensive as Jira.
Economic View	One-time purchase with optional maintenance, offering predictable costs without recurring subscriptions.	Subscription-based pricing with tiered plans based on users and features, offering both free and paid options.	Subscription-based pricing with tiered plans based on users and features, with a limited free plan available.