B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E.   Semester: VII
Branch: Institutional Elective   Duration: 3 hrs.
Course Code: 22AM7OEJIR   Max Marks: 100
Course: Jira Programming

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I

1 a) What is a workflow? Explain in detail, how to create a workflow in Jira. Also discuss the difference between agile and lean principles. **10**

b) Explain in detail how to create a filter and the two types of filters. **10**

UNIT - II

2 a) Analyze the board configuration and also discuss about scrum and Kanban frameworks. **10**

b) What are the different types of Jira Users? Briefly explain their roles. **10**

UNIT - III

3 a) What are relative and calendar functions in JIRA. With respect to the date & time functions, explain the following queries and classify them as relative or calendar function: **10**

     i.   created > -10d
     ii.   duedate > startOfWeek()
     iii.   due < -1w
     iv.   due < 5d
     v.   due < endOfYear("+1")

b) What is the difference between a company managed project and a team managed project. Explain the steps to create a project in JIRA. **10**

UNIT - IV

4 a) How can JQL be used to filter issues by labels, components, status, date range and priority in a project? **10**

b) What are the different JQL operators and how can they be used to refine search results? What is the difference between using the "AND" and "OR" operators in JQL. Explain the use of each operator. **10**

OR

5   a)   Mention the different types of roles and access levels available in team-managed projects? Also explain the permissions that are granted to each role.   **10**

     b)   Ten consultants have recently joined the team. They need to be able to create and share dashboards. What permission is required by the consultants and write the steps to grant these permissions in detail.   **10**

UNIT - V

6   a)   Provide detailed steps to create an automation that sends notifications to specific team members or groups based on certain events, such as a new issue being created or an issue being resolved.   **10**

     b)   Explain in detail, the steps to create a new workflow with a "Backlog" status, an "In Progress" status, and a "Done" status. Add a validation that tasks can only transition from "Backlog" to "In Progress" if the "Assignee" field is not empty   **10**

OR

7   a)   Give detailed steps to create a new workflow with a "Submitted" status, an "In Review" status, and a "Approved" status. Add a validation that tasks can only transition from "Submitted" to "In Review" if the "Approver" field is not empty   **10**

     b)   What are the key components of Jira reporting, and how can these components be used together and analyse data about the issue resolution process?   **10**

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