



# Vivekanand Education Society's Institute of Technology

NAME: NARENDER KESWANI

ROLL NO: 24

DIVISION: B

DEPARTMENT: MASTER OF COMPUTER  
APPLICATION (M.C.A)

SUBJECT: MCA14 - SOFTWARE PROJECT  
MANAGEMENT (SPM)

EXAM: CONTINOUS ASSESTMENT-3 (CA-3)

PROFESSOR: MONA DESHMUKH (MD)

DATE: 17/02/2022

## CA 3: Explore JIRA tool (you may download) and Design a Sprint and Backlog for any application of your choice. (Attach screen shot of it).

### WHAT IS JIRA SOFTWARE?



Jira Software is part of a family of products designed to help teams of all types manage work. Originally, Jira was designed as a bug and issue tracker. But today, Jira has evolved into a powerful work management tool for all kinds of use cases, from requirements and test case management to agile software development.

### JIRA FOR AGILE TEAMS:



For teams who practice agile methodologies, Jira Software provides scrum and kanban boards out-of-the-box. Boards are task management hubs, where tasks are mapped to customizable workflows. Boards provide transparency across teamwork and visibility into the status of every work

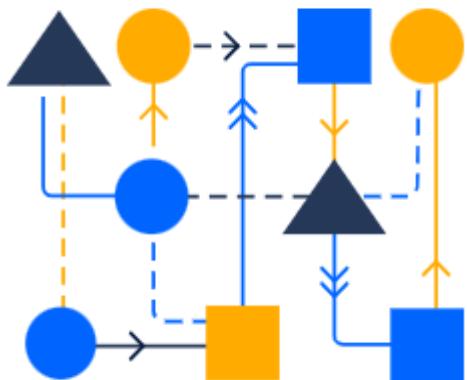
item. Time tracking capabilities and real-time performance reports (burn-up/down charts, sprint reports, velocity charts) enable teams to closely monitor their productivity over time. Jira Software supports any agile methodology for software development.

- ✓ Issue tracking
- ✓ Customizable workflows

- ✓ Estimation & work logging
- ✓ Progress reporting
- ✓ Scrum boards
- ✓ Kanban boards
- ✓ Project-level permissions
- ✓ Project backlogs
- ✓ Email notifications
- ✓ Roadmaps

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## JIRA FOR PROJECT MANAGEMENT TEAMS:



Jira Software can be configured to fit any type of project. Teams can start with a project template or create their own custom workflow. Jira issues, also known as tasks, track each piece of work that needs to pass through the workflow steps to completion. Customizable permissions enable admins to determine who can see and perform which actions. With all project information in place, reports



can be generated to track progress, productivity, and ensure nothing slips. Jira Software can help your team manage a project from the start, through execution, to the wrap-up.

- ✓ Issue / Task management
- ✓ Roadmaps
- ✓ Report & Analytics
- ✓ Integrated mobile app
- ✓ Project backlogs
- ✓ Project & issue customization
- ✓ Granular user permissions
- ✓ Workflow customization

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## JIRA FOR SOFTWARE DEVELOPMENT TEAMS:



Jira Software provides planning and roadmap tools so teams can manage stakeholders, budgets, and feature requirements from day one. Jira integrates with a variety of CI/CD tools to facilitate transparency throughout the software development life cycle. When it's ready to

deploy, live production code status information is surfaced in the Jira issue. Integrated feature flagging tools allow teams to roll out new features gradually and safely. The DevOps template is designed for high-performing teams to save time and reduce errors by managing work from a variety of tools in one centralized place.

- ✓ Release planning
- ✓ Sprint planning
- ✓ CI/CD integrations
- ✓ Issue management
- ✓ Project Backlog
- ✓ Jira Service Management integration
- ✓ Feature flagging

## JIRA SOFTWARE FOR DEVOPS TEAMS:



DevOps is a set of practices that works to automate and integrate the processes between software development and IT teams, so they can build, test, and release software faster and more reliably. For teams practicing DevOps, Jira Software is the backbone of

Atlassian's open, integrated toolchain known as Open DevOps. Jira Software integrates with first- and third-party tools throughout the DevOps lifecycle, including code and version control tools like Bitbucket, GitHub, and Gitlab, documentation and knowledge management tools like Confluence, and monitoring and operating tools like Opsgenie. Jira Software also integrates with tools across a variety of categories to help DevOps teams ship better software, faster, with a focus on best practices including:

- ✓ Automation
- ✓ Testing
- ✓ Security
- ✓ Observability
- ✓ Feature Flagging
- ✓ Continuous Delivery and Deployment

## JIRA FOR PRODUCT MANAGEMENT TEAMS:

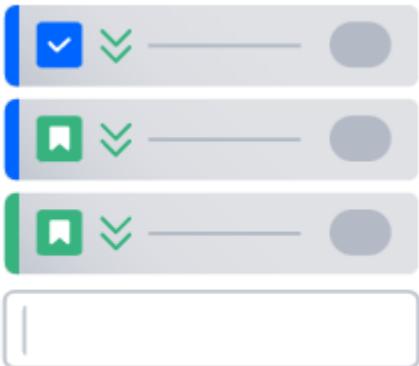


roadmap into Confluence.

In Jira Software, teams can build a roadmap that's associated with each project. The roadmap enables teams to sketch out the longer-term view of their work as well as track and share progress for their roadmap. Add more detail to your roadmaps, surfacing dependencies and forecasts for when you might complete your work. Create a view highlighting 'live' roadmaps from multiple teams by embedding the Jira Software

- ✓ Project templates
- ✓ Project roadmap
- ✓ Roadmap progress tracking
- ✓ Reporting and metrics
- ✓ Advanced Roadmaps
- ✓ Dependency mapping
- ✓ Forecasts

## JIRA FOR TASK MANAGEMENT:

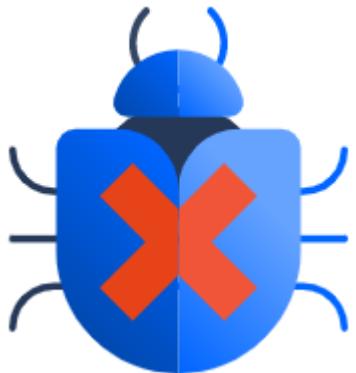


Create tasks for yourself and members of your team to work on, complete with its details, due dates, and reminders. Utilize subtasks to breakdown larger items of work. Allow others to watch the task to track its progress and be notified when it's completed. Create sub-tasks within the parent task to break down the unit of work into digestible pieces for various members

of the team. View all tasks on the board to easily visualize each's status.

- ✓ Email notifications
- ✓ Issue hierarchy
- ✓ Subtasks
- ✓ Task change log / history
- ✓ Custom fields
- ✓ Task linking / relationships
- ✓ Project linking

## JIRA FOR BUG TRACKING:



Bugs are just a name for to-do's stemming from problems within the software a team is building. It is important for teams to view all the tasks and bugs in the backlog so they can prioritize big picture goals. Jira's powerful workflow engine ensures that bugs are automatically assigned and prioritized once they are captured. Teams can then track a bug through to completion.

- ✓ Product / Issue backlog
- ✓ Customizable workflows
- ✓ Email notifications
- ✓ Task / bug linking
- ✓ Project level configuration

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## Glossary of items

**Scrum board:**

Scrum boards enable teams to manage their sprints and backlog.

**Kanban board:**

A kanban board allows teams to visualize the flow of work and limit work in progress.

**Backlogs:**

A backlog contains outstanding issues for a team to work on.

**Epics, User Stories, Issues:**

An epic represents a large body of work, which may require several sprints to complete. Multiple user stories comprise an epic. A Jira issue represents a single piece of work in a project.

**Time Tracking:**

Time tracking allows teams to record the amount of time they spend working on issues.

**Custom workflows:**

Teams can create custom workflows to drive the progression of issues on a scrum or kanban board.

**Roadmaps:**

Roadmaps create a visual representation of all the epics a team is working on, so teams can plan large pieces of work in advance.

## Advanced search:

Advanced search uses Jira Query Language (JQL) to search for specific criteria in issues that can't be done in quick or basic searches.

## Permissions:

Utilize permissions to grant team members different levels of access and to lock down sensitive information.

## PROJECT DESCRIPTION:

### “My Remote Desk: Remote Monitoring System”

- ✓ **ABSTRACT:**
- As COVID - 19 increasing day by day, all the office work is shifted to the work from home. All organization have the employees and doing work from home. Now, it is difficult for the organizations to check or determine whether their employees are work productive or not. To overcome this problem, our system will help organization and to determine whether the employee is productive or not. The system includes basic components that continuously estimate the key behavior cues: app and website monitoring, screen shot monitoring, app and website time usage, attendance monitoring. By combining the continuous estimation components, we design higher level features to classify whether the user/employee is productive or not. Not only monitoring & tracking will be focus, the focus will be for work from home integrated platform which as features such as project management system, group meeting, etc.

## MODULES:

- App & Website tracking: System will track the apps and websites which are used by the user/employee at the time of the work. System will create the logs and send logs to the organization panel.
- Screen Shot Monitoring: System will take screen shots of the employee desktop screen at the interval of 2-5 min and send all snapshots to the organization panel.
- Automated Attendance Management System: Taking the attendance of the user/employee whenever user starts the work and ends the work, sending those logs to the organization panel.
- App & Website time tracking: System will track and monitor the apps and website, how much user/employee has spent the time and sends logs to the organization panel.
- Group Meeting: Organization can create an group meeting for employee where they can meet and discuss about the project.
- Project Management System: Organization can create projects, tasks, assigned tasks to employee, create boards, etc.
- Dashboard: Organization and employee has the separate interactive dashboard where they can perform functions.

## **1: CREATE FREE ACCOUNT ON THE**

**<https://www.atlassian.com/software/jira/free>**

The screenshot shows the 'Project templates' section of the Atlassian Jira Software website. The 'Software development' category is selected. It features three main project templates: Kanban, Scrum, and Bug tracking. Each template has a thumbnail icon, a title, and a brief description. The 'Kanban' template is highlighted with a blue border. The page includes a navigation bar at the top and a taskbar at the bottom.

## **2: CHOOSE YOUR PROJECT TEMPLATE:**

The screenshot shows the 'Kanban' project template page. It provides an overview of the Kanban methodology, including its purpose and how it helps teams visualize work. It also details how to track work using a simple board and how to use the board to limit work in progress. On the right side, there are sections for 'PRODUCT', 'RECOMMENDED FOR', 'ISSUE TYPES', and 'WORKFLOW'. A 'Use template' button is located at the top right. The page is part of the 'Software development' category.

The screenshot shows the Jira Software setup page. It compares two main configuration approaches:

- Simplified configuration** (Left): For teams who want to control their own working processes and practices in a self-contained space. It includes:
  - Get up and running quickly, with simplified configuration.
  - Anyone on your team can set up and maintain.
  - Settings do not impact other projects.
  - Easy setup for issue types and custom fields.
  - Simple configuration for multiple workflows.
  - Access level permissions.
- Expert configuration** (Right): For teams who want to work with other teams across many projects in a standard way. It includes:
  - Benefit from complete control with expert configuration, customization and flexibility.
  - Set up and maintained by your Jira admins.
  - Standardized configuration shared across projects.
  - Complete control over issue types and custom fields.
  - Customizable workflows, statuses and issue transitions.
  - Detailed permission schemes.

At the bottom, there are two buttons: "Select a team-managed project" and "Select a company-managed project".

The screenshot shows the Jira Software setup page. It compares two feature sets:

- Essential features** (Left): A modern Jira experience for teams who don't need advanced features. It includes:
  - Basic Roadmaps
  - Only show your project's issues on your board
  - Standard filters
  - Essential agile reporting
- Advanced features** (Right): All the power and features that Jira Software is known for. It includes:
  - Advanced Roadmaps (Premium only)
  - Pull in issues from other projects on your board
  - Custom quick filters
  - Comprehensive agile reporting

At the bottom, there are two buttons: "Select a team-managed project" and "Select a company-managed project".

### 3: ADD YOUR PROJECT DETAILS

Add project details  
You can change these details anytime in your project settings.

Name \*  
MyRemoteDesk

Key \*  
MYR

Template [Change template](#)  
Kanban  
Visualize and advance your project forward using issues on a powerful board.

Type [Change type](#)  
Team-managed  
Control your own working processes and practices in a self-contained space.

[Back](#) [Create project](#)

### 4: CREATE BOARDS FOR YOUR PROJECT

Projects / MyRemoteDesk  
MYR board

TO DO [+ Create issue](#)

IN PROGRESS

DONE [+](#)

TO DESIGN

BUGS FIXING [+](#)

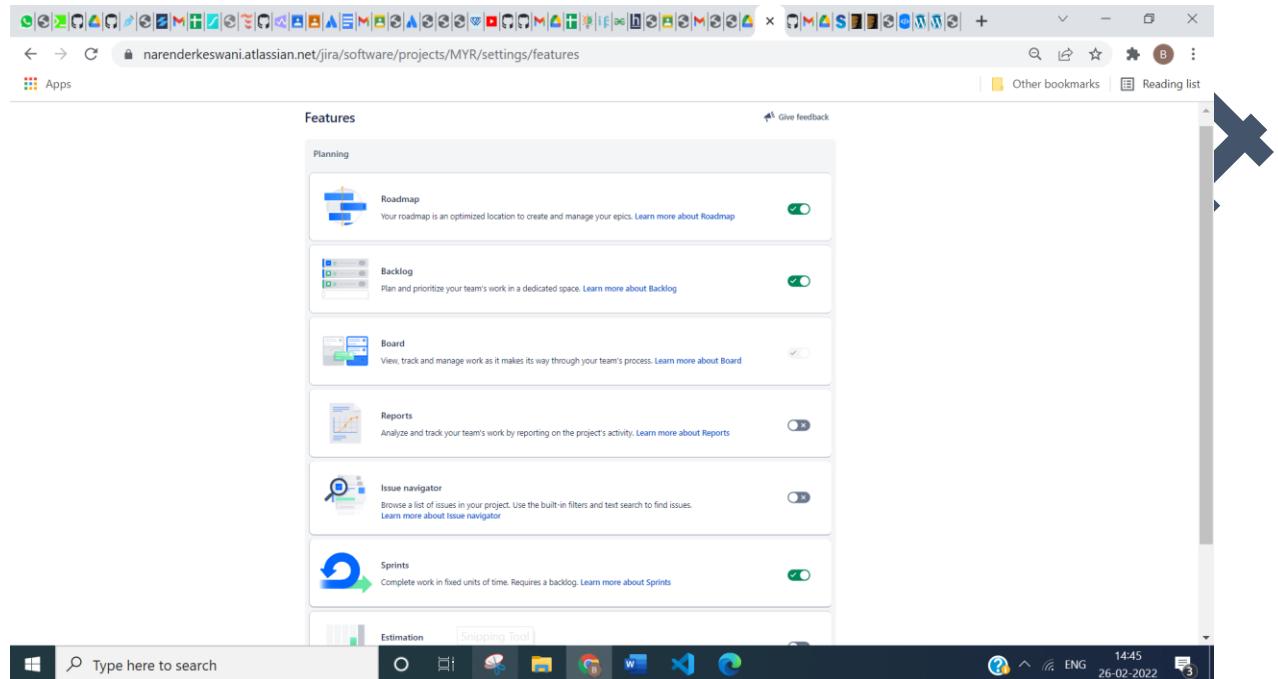
GROUP BY [None](#)

Does your team need more from Jira? [Get a free trial of our Standard plan.](#)

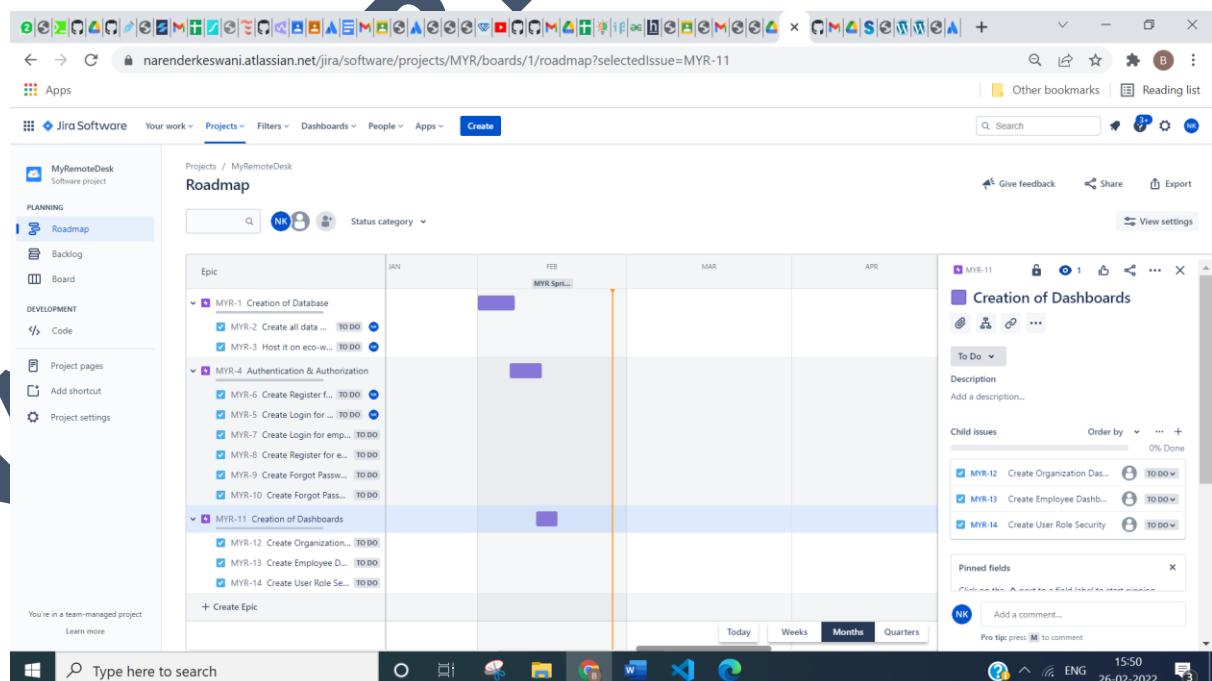
[Quickstart](#)

DMBI 2020-21.pdf

## 5: ENABLE THE FEATURES BACKLOG & SPRINT IN THE PROJECT SETTINGS



## 6: CREATE TASKS & SUB-TASKS OF YOUR PROJECT



## 7: AT THE TIME OF TASK CREATION SPECIFY THE ASSIGNEE NAME , START DATE, DEADLINE DATE, TITLE & DESCRIPTION OF THE TASK

The screenshot shows the Jira task creation interface. On the left, a task titled "Create all data models in django" is being created. It has a description: "Create and host database in ecoweb server." Under "Child issues", there are two sub-tasks: "MYR-2 Create all data models i..." and "MYR-3 Host it on eco-web server", both assigned to "TO DO". On the right, another task titled "Host it on eco-web server" is shown. This task has an assignee of "NARENDER KESWANI (NK)", labels of "None", and a due date of "Feb 07, 2022". The interface includes sections for "Pinned fields", "Details", and "Activity". A large blue "24" is overlaid on the right side of the interface.

Creation of Database / MYR-2

Create all data models in django

To Do

Description

Create and host database in ecoweb server.

Child issues Order by ... +

0% Done

MYR-2 Create all data models i... NK TO DO

MYR-3 Host it on eco-web server NK TO DO

Pinned fields

Click on the next to a field label to start pinning.

Details

Assignee NARENDER KESWANI

Labels None

Sprint None

Reporter NARENDER KESWANI

Created 2 hours ago

Updated 3 minutes ago

Configure

Activity

Show: All Comments History Newest first

Add a comment...

Pro tip: press to comment

#### ▼ ⚡ MYR-4 Authentication & Authorization

- MYR-6 Create Register for organization TO DO NK
- MYR-5 Create Login for orginazation TO DO NK
- MYR-7 Create Login for employee TO DO
- MYR-8 Create Register for employee TO DO
- MYR-9 Create Forgot Password for organization TO DO
- MYR-10 Create Forgot Password for employee TO DO

24

#### ▼ ⚡ MYR-15 Creation of Organization Functions

- MYR-17 Add Employees TO DO
- MYR-18 Create Project TO DO
- MYR-19 Create Board TO DO NK
- MYR-20 View Attendance TO DO
- MYR-21 Create Tasks TO DO
- MYR-22 Assign Tasks TO DO
- MYR-23 View Monitoring Logs TO DO
- MYR-24 Add Meeting TO DO
- MYR-25 View Meeting TO DO

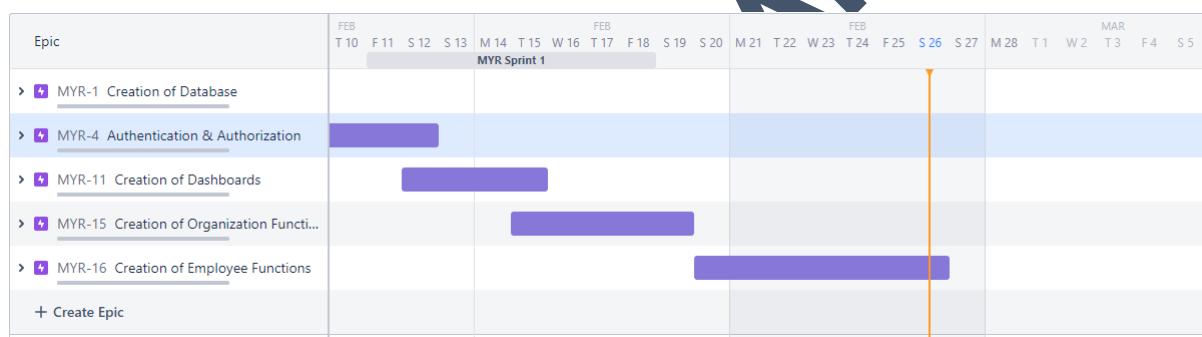
NARENDER KESWANI

▼  MYR-16 Creation of Employee Functions

- MYR-26 View Profile TO DO
- MYR-27 View Logs TO DO
- MYR-28 View Projects TO DO
- MYR-29 View Boards TO DO
- MYR-30 View Tasks TO DO
- MYR-31 Apply Employee Leave TO DO

✓4

**8: CHECK GANTT CHART OF THE PROJECT:**



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## 9: CHECK BACKLOG:

The screenshot shows the Jira Software interface for the 'MyRemoteDesk' project. The left sidebar is collapsed, and the main area displays the 'Backlog' section. A modal window titled 'Does your team need more from Jira? Get a free trial of our Standard plan.' is open at the top. Below it, the backlog lists 26 issues under the heading 'Backlog (26 issues)'. The issues are categorized by epic: 'MYR Sprint 1 11 Feb – 18 Feb' (with 11 issues), 'MYR Sprint 2 18 Feb – 4 Mar' (with 15 issues), and 'Backlog (26 issues)' (with 1 issue). Each issue card includes a title, description, and status indicators for 'TO DO', 'IN PROGRESS', and 'TESTING'.

## YOU CAN ALSO FILTER & VIEW:

This screenshot shows the same Jira Software interface as the previous one, but with a different filter applied. The 'Epic' dropdown menu is open, and the option 'Issues without epic' is selected. The backlog list now only shows issues that do not belong to any specific epic, such as 'Creation of Database', 'Authentication & Authorization', 'Creation of Dashboards', 'Creation of Organization Functionality', and 'Creation of Employee Functionality'. The rest of the interface, including the sidebar and the overall layout, remains consistent with the first screenshot.

## 10: ADD BACKLOGS IN SPRINT:

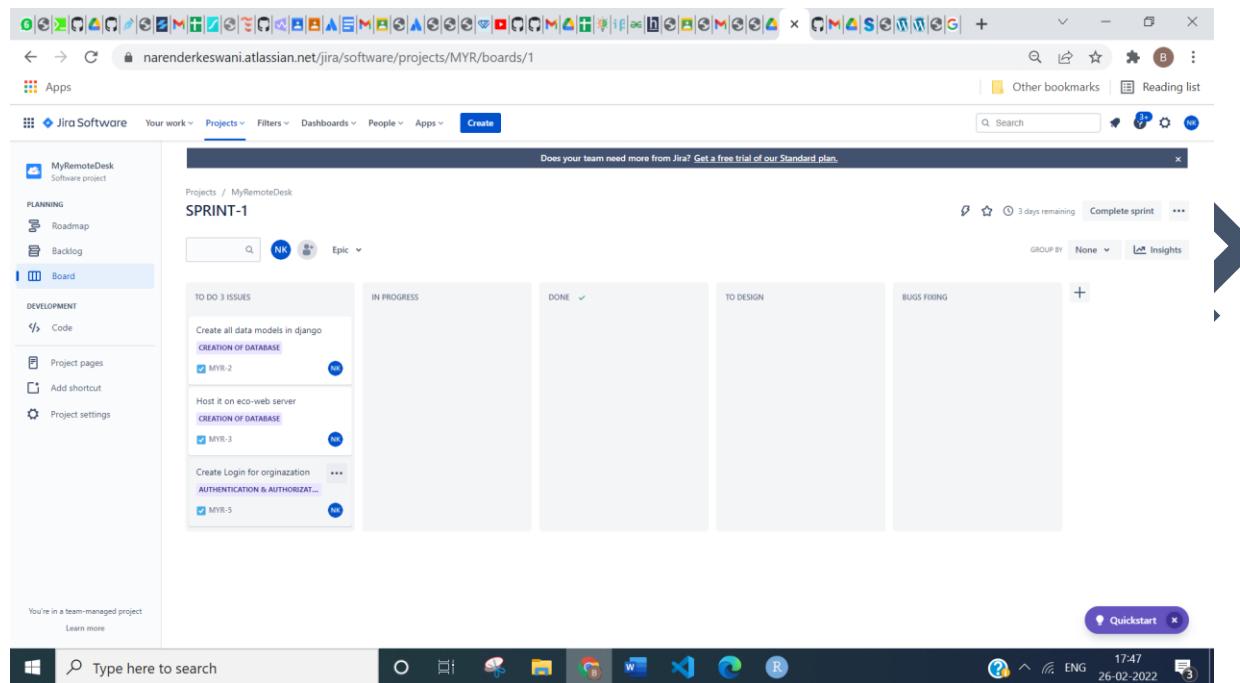
The screenshot shows the Jira Software interface. The top navigation bar includes 'Projects', 'Filters', 'Dashboards', 'People', 'Apps', and a 'Create' button. A banner at the top right says 'Does your team need more from Jira? Get a free trial of our Standard plan.' Below the navigation, there's a sidebar with 'eDesk' and 'select'. The main area shows two sections: 'MYR Sprint 1 11 Feb – 18 Feb (3 issues)' and 'Backlog (23 issues)'. Under 'MYR Sprint 1', three items are listed: 'MYR-2 Create all data models in django' (CREATION OF DATABASE), 'MYR-3 Host it on eco-web server' (CREATION OF DATABASE), and 'MYR-5 Create Login for organization' (AUTHENTICATION & AUTHORIZAT...). Under 'Backlog', several items are listed, including 'MYR-6 Create Register for organization' (AUTHENTICATION & AUTHORIZAT...), 'MYR-7 Create Login for employee' (AUTHENTICATION & AUTHORIZAT...), 'MYR-8 Create Register for employee' (AUTHENTICATION & AUTHORIZAT...), 'MYR-9 Create Forgot Password for organization' (AUTHENTICATION & AUTHORIZAT...), 'MYR-10 Create Forgot Password for employee' (AUTHENTICATION & AUTHORIZAT...), and 'MYR-12 Create Organization Dashboard' (CREATION OF DASHBOARDS). Each item has a 'Start sprint' button and a 'TO DO' dropdown. The bottom of the screen shows a Windows taskbar with various icons and a search bar.

## 11: START SPRINT:

PROVIDE NAME OF SPRINT, DURATION, START DATE & STOP DATE, ETC

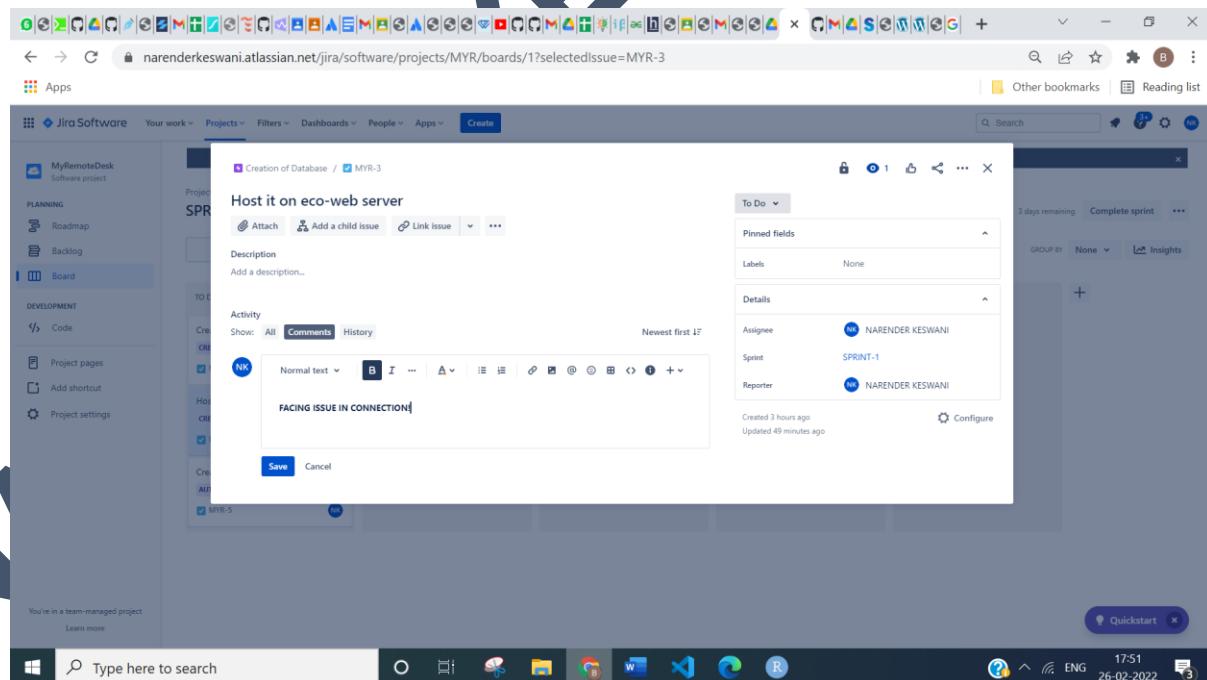
The screenshot shows the Jira Software interface with a 'Start Sprint' dialog box overlaid. The dialog box contains fields for 'Sprint name' (set to 'SPRINT-1'), 'Duration' (set to '2 weeks'), 'Start date' (set to '2/26/2022 5:02 PM'), 'Planned start date' (set to '2/11/2022, 12:00 AM' with a note about impacting velocity and scope), 'End date' (set to '3/12/2022 5:02 PM'), and a 'Sprint goal' field which is currently empty. At the bottom of the dialog are 'Start' and 'Cancel' buttons. The background shows the same Jira backlog as the previous screenshot, with the 'Backlog' section visible.

## 12: CHECK BOARDS:

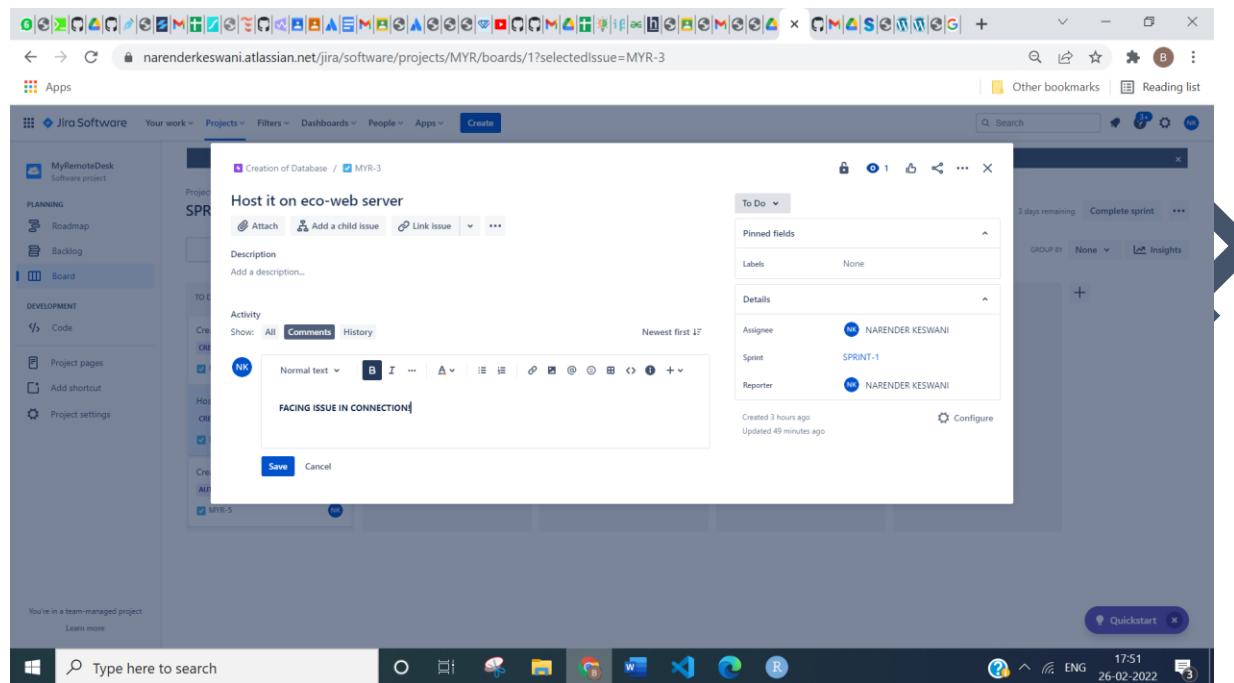


## 13:

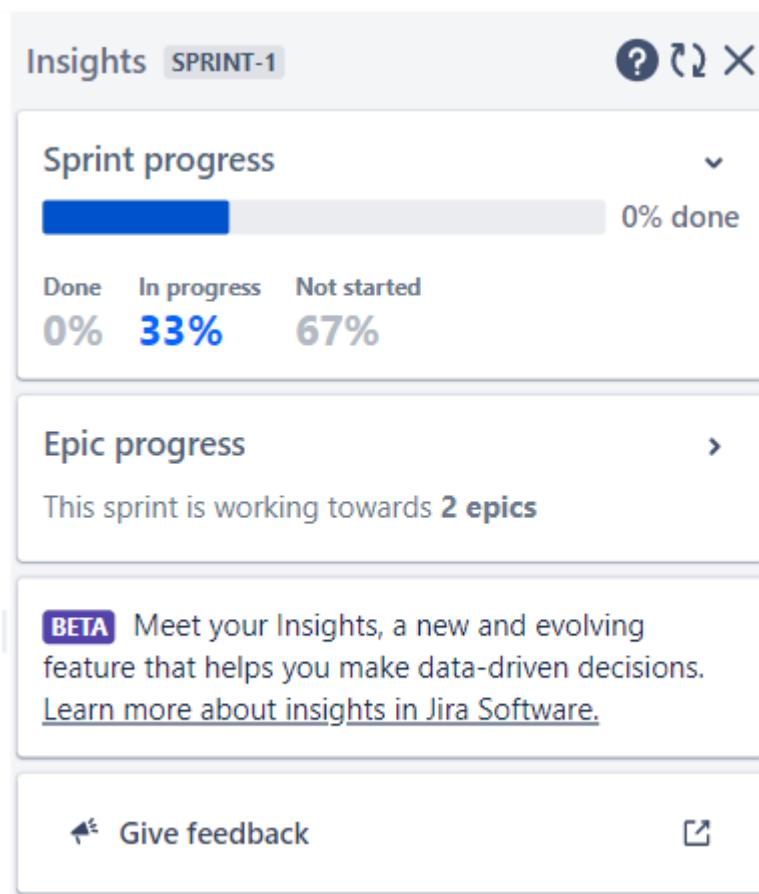
### COMMENT YOUR ISSUES:



## 14: IF WORK IS COMPLETED, THEN MARK IT COMPLETED:



## 15: CHECK SPRINT INSIGHTS:



## **16: FOR CODE DEVELOPMENT CONNECT TO GITHUB:**

The screenshot shows the Jira Software interface. On the left, there's a sidebar with project navigation like MyRemoteDesk, Planning, Roadmap, Backlog, Board, and Code. The main area displays a section titled "Connect your entire workflow with automation" and a callout box. Below this, the "ATLASSIAN Marketplace" is shown with three app cards: "GitHub for Jira", "Git Integration for Jira", and "GitLab.com for Jira Cloud". A link "Browse the Atlassian Marketplace for more code integrations" is also present. The bottom status bar shows the date as 26-02-2022 and time as 17:53.

### **ADD GITHUB TO JIRA**

The screenshot shows the Atlassian Marketplace page for the "GitHub for Jira" app. The app card includes a "Get app" button and a "FREE" label. It lists actions like "Delete data from the host application", "Write data to the host application", and "Read data from the host application". Below this, it highlights "Automatic context in Jira" and "Keep developers in GitHub". A "Security" section contains two green checkmarks: "This app is part of the Marketplace Bug Bounty Program" and "This partner has completed the Security Self-Assessment Program". The bottom status bar shows the date as 26-02-2022 and time as 17:55.

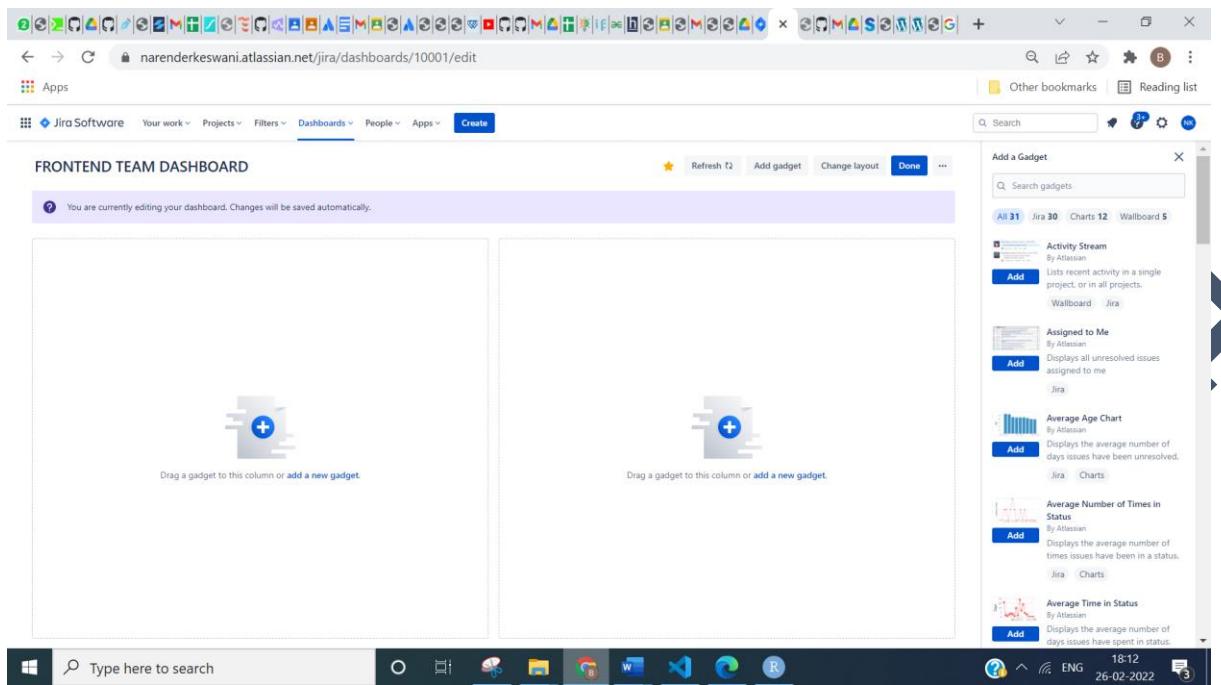
## 17: CREATE YOUR OWN CUSTOM DASHBOARD:

### CLICK ON CREATE DASHBOARD:

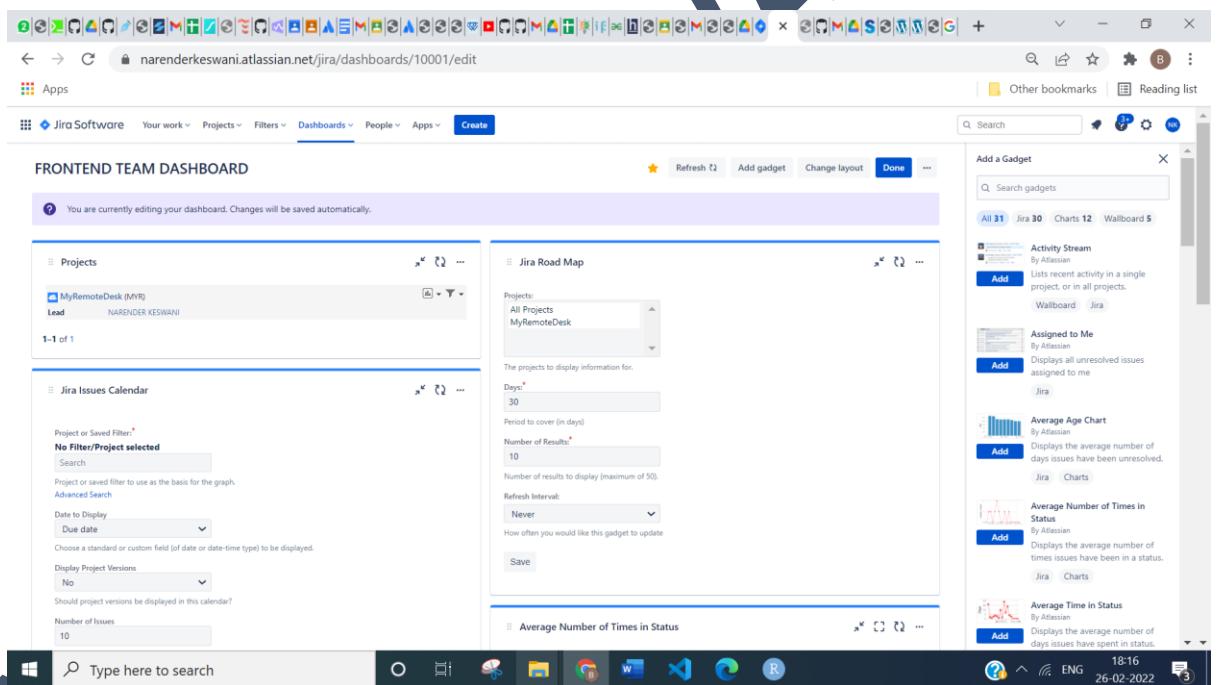
The screenshot shows the Jira Software interface. At the top, there is a navigation bar with links for 'Jira Software', 'Your work', 'Projects', 'Filters', 'Dashboards', 'People', 'Apps', and a 'Create' button. A dropdown menu is open under the 'Create' button, titled 'RECENT'. It contains an item 'Default dashboard' with a small icon. Below the recent list are links for 'View all dashboards' and 'Create dashboard'. A large blue 'X' is overlaid on the right side of the screen.

### PROVIDE DETAILS OF DASHBOARD:

The screenshot shows a 'Create dashboard' dialog box in the center of the screen. The 'Name' field is filled with 'FRONTEND TEAM DASHBOARD'. The 'Description' field is empty. Under 'Viewers', there are two dropdown menus: 'Group' and 'site-admins', each with an 'Add' button. Under 'Editors', there are two dropdown menus: 'Group' and 'Group', each with an 'Add' button. At the bottom of the dialog are 'Save' and 'Cancel' buttons. The background shows the Jira interface with various project cards and a sidebar. A large watermark 'NAREN' is diagonally across the image.



## NOW ADD GADGET ACCORDING TO YOUR REQUIREMENTS:



FRONTEND TEAM DASHBOARD

Projects

Jira Issues Calendar

Average Number of Times in Status

Assigned to Me

Issues in progress

Type here to search

## 18. INVITE A TEAMMATE:

Filters ▼ Dashboards ▼ People ▼ Apps ▼ Create

YOUR COLLABORATORS

+ Invite a teammate

YOUR TEAMS

+ Start a team

Search people and teams

Invite your teammates to Jira Software

Connect teammates from

Slack Microsoft

OR

Add with email

neel.deshmukhp@gmail.com

add more people...

Cancel Invite 1 person

## 19. CHECK ALL YOUR PROJECTS:

The screenshot shows the Jira Software interface for the 'MyRemoteDesk' project. The project details are as follows:

- Name: MyRemoteDesk
- Key: MYR
- Type: Team-managed software
- Lead: NARENDER KESWANI

## 20. CHECK ROADMAP:



## 21. ADD CUSTOM ISSUE TYPE:

The screenshot shows the 'Issue types' configuration page for the 'MyRemoteDesk' project. A new issue type named 'TEST CASES' is being created, with the following fields defined:

- Description fields:
  - Summary
  - Description
- Context fields:
  - Status

The 'TEST CASE' configuration includes:

- Description (optional): "Describe how people should use this field"
- Options:
  - SUCCESSFUL
  - FAILED

A success message is displayed: "Success: 'Story' added."

## 22. ADD SHORTCUT FOR EASY ACCESS:

The screenshot shows the Jira software interface for a project named 'SPRINT-1'. A modal window titled 'Add an item to this project' is open, displaying two options: 'Shortcut' and 'Repository'. The 'Shortcut' option is selected, and its description is visible. Below the modal, another modal window titled 'Add shortcut' is open, prompting for a 'Web address\*' and a 'Name\*'. The URL 'https://narenderkeswani.atlassian.net/jira/software/projects/MYR/boards/1' is entered in the web address field, and 'BOARDS' is entered in the name field. A large watermark 'NAREN...' is diagonally across the bottom left of the image.

## 23. MARK COMPLETE SPRINT IF ALL ISSUES ARE SOLVED:

The screenshot shows the Jira Software interface for the 'MyRemoteDesk' project. A modal window titled 'Complete SPRINT-1' is displayed, indicating that the sprint contains 0 completed issues and 3 open issues. The 'Move open issues to' dropdown is set to 'SPRINT-2'. A yellow star icon with a blue arrow pointing to it is overlaid on the top right of the modal. In the background, the backlog board shows two sprints: 'SPRINT-1' (18 Feb – 3 Mar, 3 issues) and 'SPRINT-2' (4 Mar – 17 Mar, 4 issues). The backlog items include tasks like 'Create all data models in django', 'Host it on eco-web server', and 'Create Login for organization'. A notification at the bottom left says 'You have added the shortcut'.

**NOW MOVE ON TO SOLVE NEW ISSUES:**

The screenshot shows the Jira Software interface for the 'MyRemoteDesk' project, specifically the 'SPRINT-2' board. The board is divided into four columns: 'TO DO', 'IN PROGRESS', 'DONE', and 'BUGS FIXING'. The 'DONE' column contains three items: 'Create all data models in django', 'Host it on eco-web server', and 'Create Login for organization'. The 'BUGS FIXING' column contains one item: 'Create Forgot Password for employee'. A blue arrow points from the 'DONE' column towards the 'BUGS FIXING' column. The top of the screen shows a message: 'Does your team need more from Jira? Get a free trial of our Standard plan.' The status bar at the bottom indicates '13 days remaining' for the sprint.

## CONCLUSION:

- ✓ Integration is available in this Jira. That means the issue and project tracking software integrated with several third-parties Software's.
- ✓ Jira is suitable for different types of users like developers, project managers, engineers, non-technical professionals and so on.
- ✓ Supports the roadmap requirement.
- ✓ Jira enables users to create any kind of issue.
- ✓ Jira follows agile methodology.
- ✓ Jira helps us to track our project progress.

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