

You Already Know

Skills:

Agile

Git

SQL







Agile

An iterative approach to manage the development of a software project.

Git and GitHub

A distributed version control system that helps handle software projects.

SQL or **MySQL**

Relational database management system to store data in a structured way using tables.



A Day in the Life of an Automation Test Engineer

As Automation Test Engineers, our key role is to test both client and server software with the latest test automation tools.

We shall be testing food delivery application built in Angular, Node as the front end with Spring Boot, Java, and MySQL/MongoDB as the backend.

To begin, we need to plan testing properly using Agile methodology.

Firstly, we will create user stories for epics of web app for end user and admin dashboard.

We will thereafter see how to use Jira and plan the project with our stories.



Learning Objectives

By the end of this lesson, you will be able to:

- Understand the various aspects in developing the user stories
- Develop user stories for admin dashboard epic and web app for end user epic
- Perform hands-on Agile software development with Jira
- Develop stories and plan sprints in Jira





Authentication Story

Summary

Users should be able to log in to the admin dashboard.

Description

To verify as admin user, they will use email and password with captcha verification to access the admin backend.

Acceptance criteria

There must be a login page featuring text fields for username and password and a login button.

NFR (Nonfunctional Requirements)

After logging in, the user should be navigated to the Dashboard page in less than three seconds.



Restaurant Story

Summary

Users should be able to manage restaurants as an admin.

Description

As admin users, they want to be able to add and change restaurant information as well as manage dishes and update information.

Acceptance criteria

The screen should display a list of all the dishes of the restaurant. In the same screen, a button to add dish should be shown. Dish details form should appear on clicking the button. Further, to update or delete the dish, separate buttons should be available.



Restaurant Story

Validation

At least, the name, email, and contact must be added for a restaurant.

NFR (Nonfunctional Requirements)

NA

Dish Story

Summary

Users should be able to manage dishes as an admin.

Description

They want to add and edit dish specifics such as pricing, discounts, dish descriptions, dish photos, and other relevant information as admin users.

Acceptance criteria

The screen should display a list of all the dishes of the restaurant. In the same screen, a button to add dish should be shown. Dish details form should appear on clicking the button. Further, to update or delete the dish, separate buttons should be available.



Dish Story

Validation

At least, the name and price of the dish must be added.

NFR (Nonfunctional Requirements)

NA

User Story

Summary

Users should be able to access users' data.

Description

As admin users, they want to monitor newly registered users. Users can be filtered by date of registration. Also, user's activities such as frequently visited sections in the end user app.

Acceptance criteria

The user list page should be empty by default, with a prompt of user filtration criteria. In the prompt, the options of users retrieval on the basis of frequently active, last active, and date of registration should be added. After user list retrieval, the web page should be divided into two parts. In the first section, a list of users must be displayed. In the second section, the selected user's data should be displayed.



User Story

Validation

Date format should be validated before sending requests for users.

NFR (Nonfunctional Requirements)

Retrieval of users should be seamless in a maximum of 10 seconds.

Order Story

Summary

Users should be able view new as well as finished orders as admin.

Description

As admin user, they want to manage orders stats such as availability of dishes in order and order transition information.

Acceptance criteria

There should be three sections on the website. A list of freshly placed orders should be included in the first section. A list of ongoing orders should be included in the second section. Orders that are on hold due to dish availability should be indicated in the third section. When a person selects an order, he should be taken to another page that has all of the information about the food he has chosen.



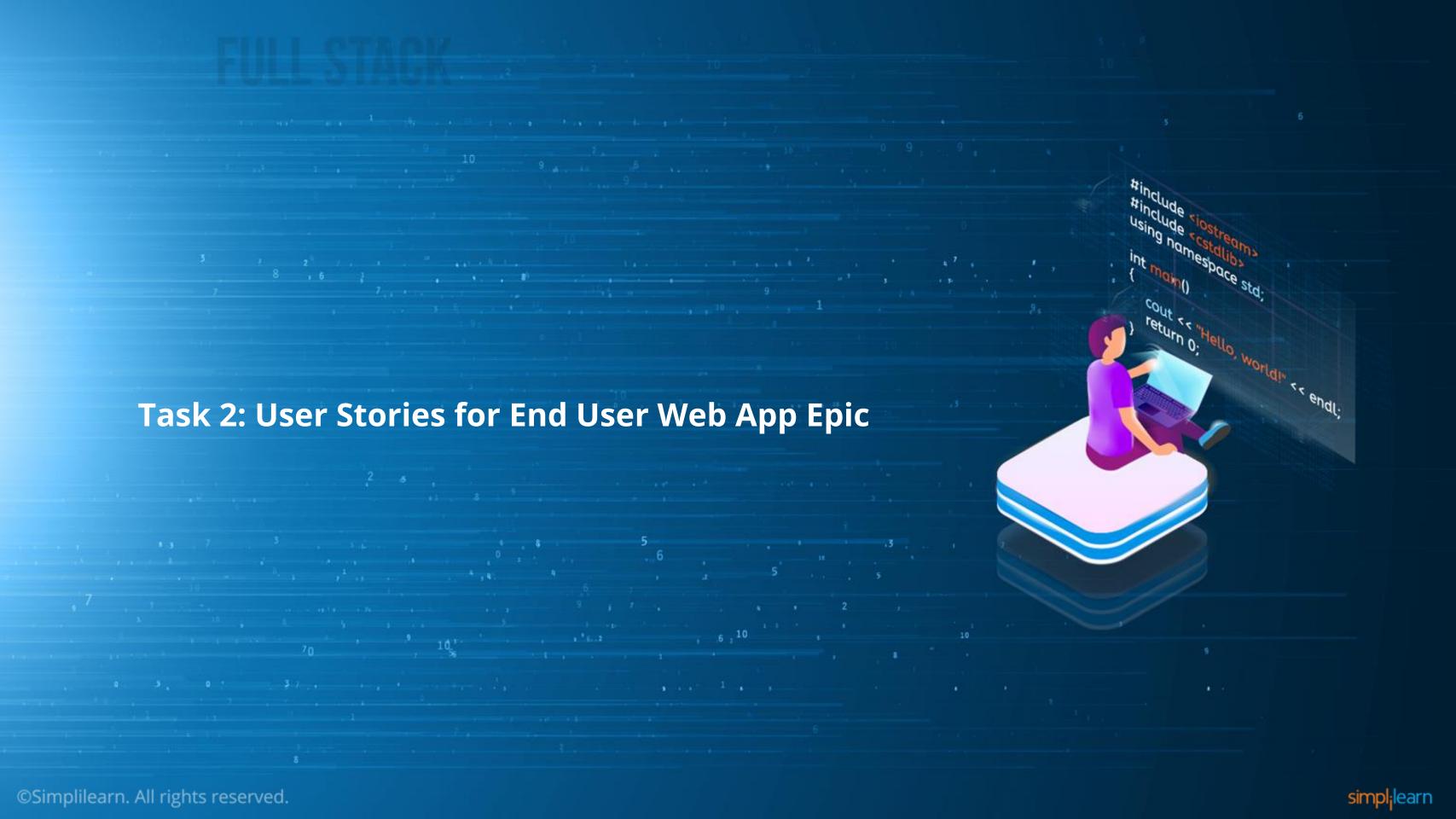
Order Story

Validation

When processing the order, the availability of dish in the inventory should be validated first.

NFR (Nonfunctional Requirements)

NA



Authentication Story

Summary

Users should be able to log in to the end user app to access member features like browsing restaurants and dishes, placing order.

Description

As end users, they want to authenticate the email, password, and captcha verification to access the member section. They should be able to register if they do not have an account first.

Acceptance criteria

A web page with text fields for username and password with a login button to log in to the system. Another web page for registration asking name as additional field. Even though a user is not authenticated, they must be able to see the Home Page with Restaurants for browsing.

Authentication Story

Validation

Username and password cannot be empty. Password must be of minimum six characters.

NFR (Nonfunctional Requirements)

After logging in, the user should be navigated to the Home Page with details in less than three seconds.

Profile Story

Summary

Users should be able to update his basic information.

Description

As end users, they want to update his basic name, email, and delivery address.

Acceptance criteria

All the fields should be mandatory to fill.

Profile Story

Validation

All the fields should be mandatory to fill.

NFR (Non Functional Requirements)

NA

Restaurant Story

Summary

Users should be able to view restaurant details.

Description

As end users, they want a page where restaurant's images, name, contact, user reviews and other meaningful information are displayed.

Acceptance criteria

There must be a web page with two sections, one where the restaurant's details are displayed and second, where the description of the dishes are displayed. The user reviews should be under both the sections with the latest ones on the top.



Restaurant Story

Validation

Availability of dish in inventory should be checked before adding it to the order.

NFR (Nonfunctional Requirements)

NA



Dish Story

Summary

Users should be able to view dish details.

Description

As end users, they want a page where dish images, price, description, user reviews and other meaningful information is displayed.

Acceptance criteria

There must be a web page with two sections. In the first one, dish details should be displayed vertically. In the second section, dish pricing and description should be displayed. The user reviews should be under both the sections with the latest ones on the top.



Dish Story

Validation

Availability of dish in inventory should be checked before adding it to the order.

NFR (Nonfunctional Requirements)

NA

Order Story

Summary

Users should be able to view the checkout page for order placement.

Description

As end users, they want a checkout page where all the dishes are displayed of the order with payment options.

Acceptance criteria

In the checkout page, there should be two sections. In the first one, all the added dishes should be displayed vertically. In the second section, details of payment should be displayed with an option of selecting the payment mode for the order.

Order Story

Validation

The inventory dish and delivery of order to the selected present delivery address should be available.

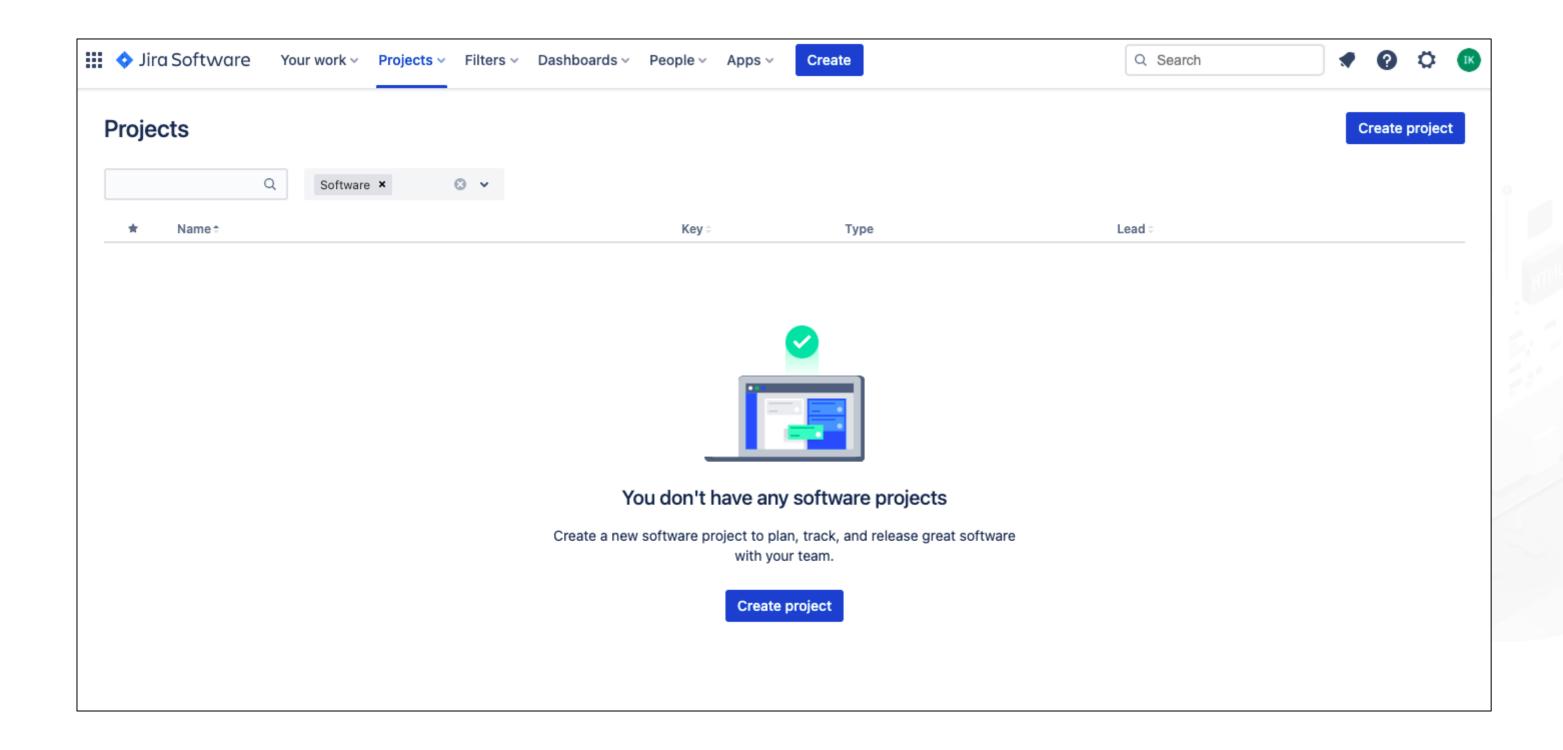
NFR (Nonfunctional Requirements)

NA



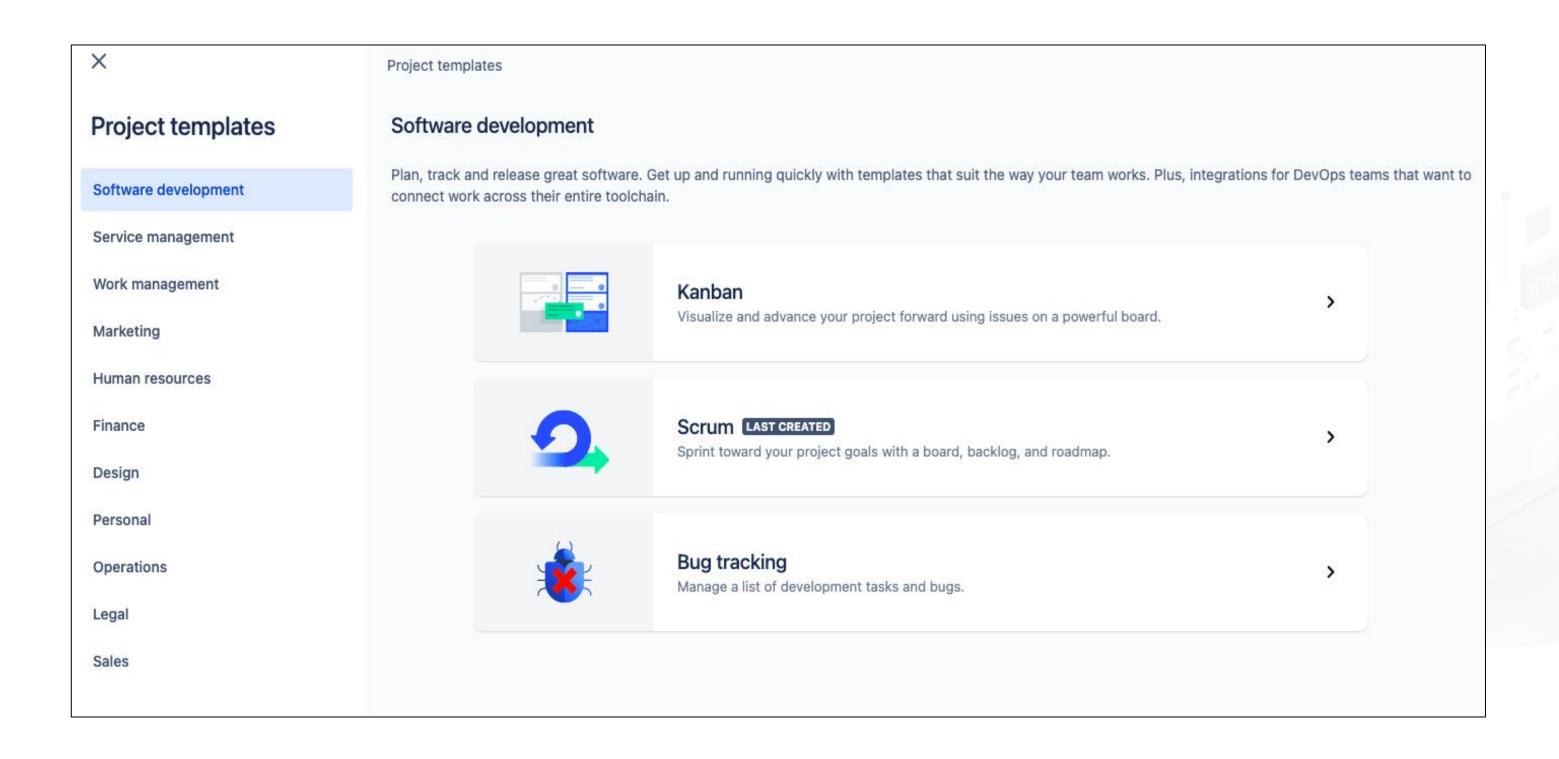


Create Project in Jira



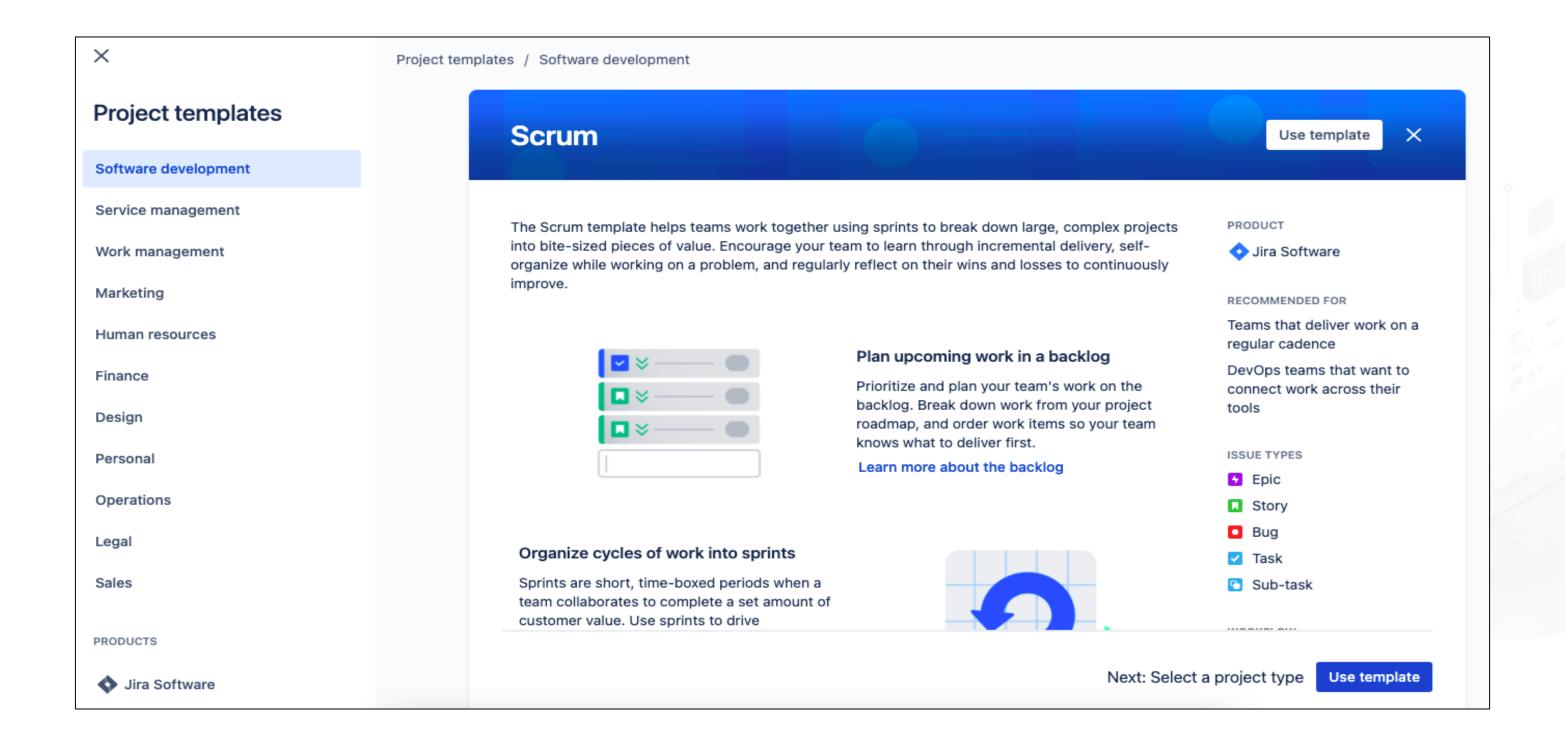


Different Project Options





Scrum Template





Project Details

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

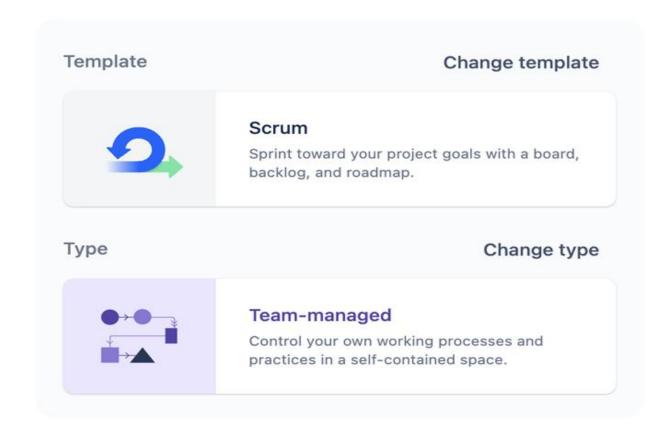
Access Anyone with access to auribises can access and administer this project. Upgrade your plan to customize project permissions.

Key 10*

FOOD

Connect repositories, documents, and more

Sync your team's work from other tools with this project for better visibility, access, and automation.

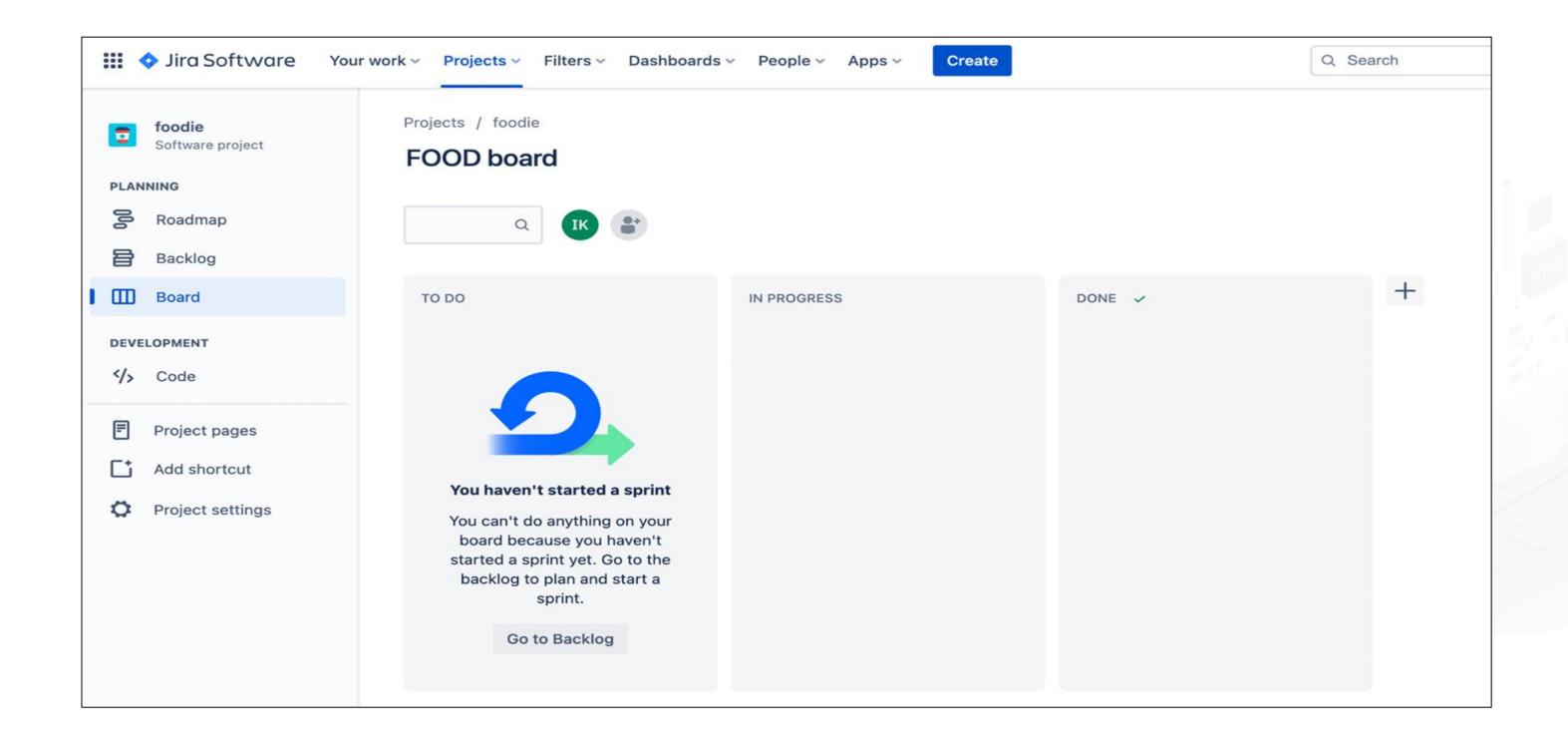


Cancel

Create project

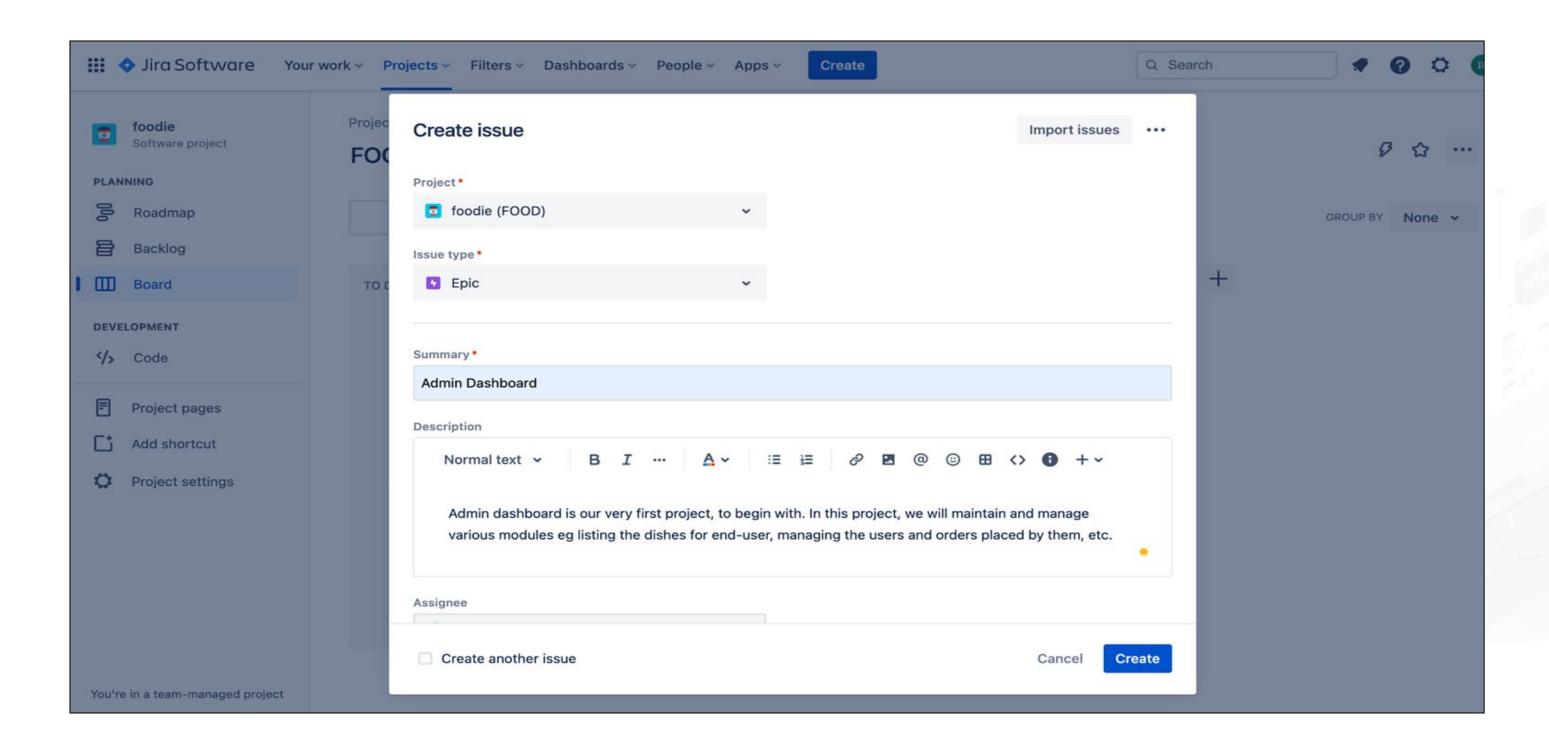


Project Home Page



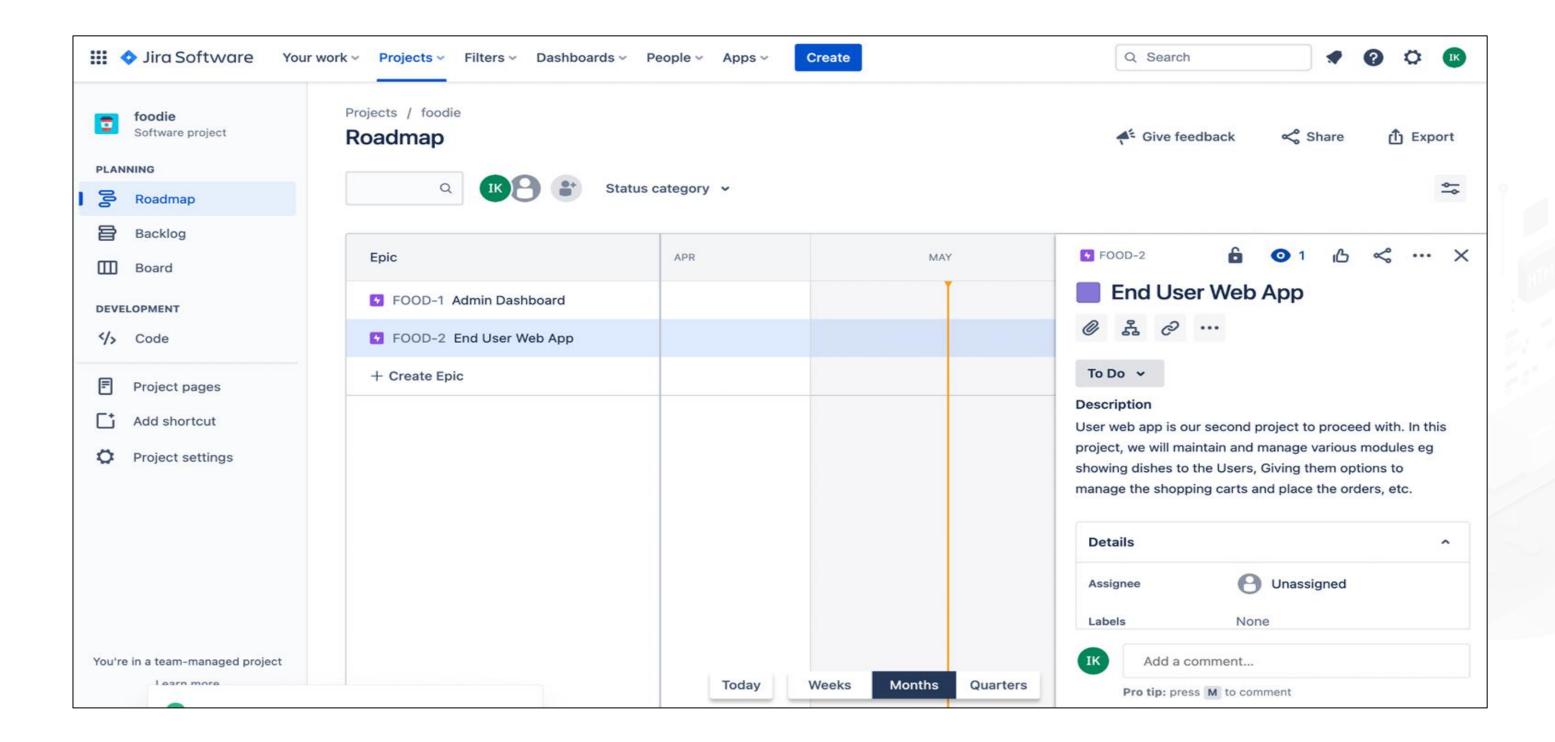


Create Epic



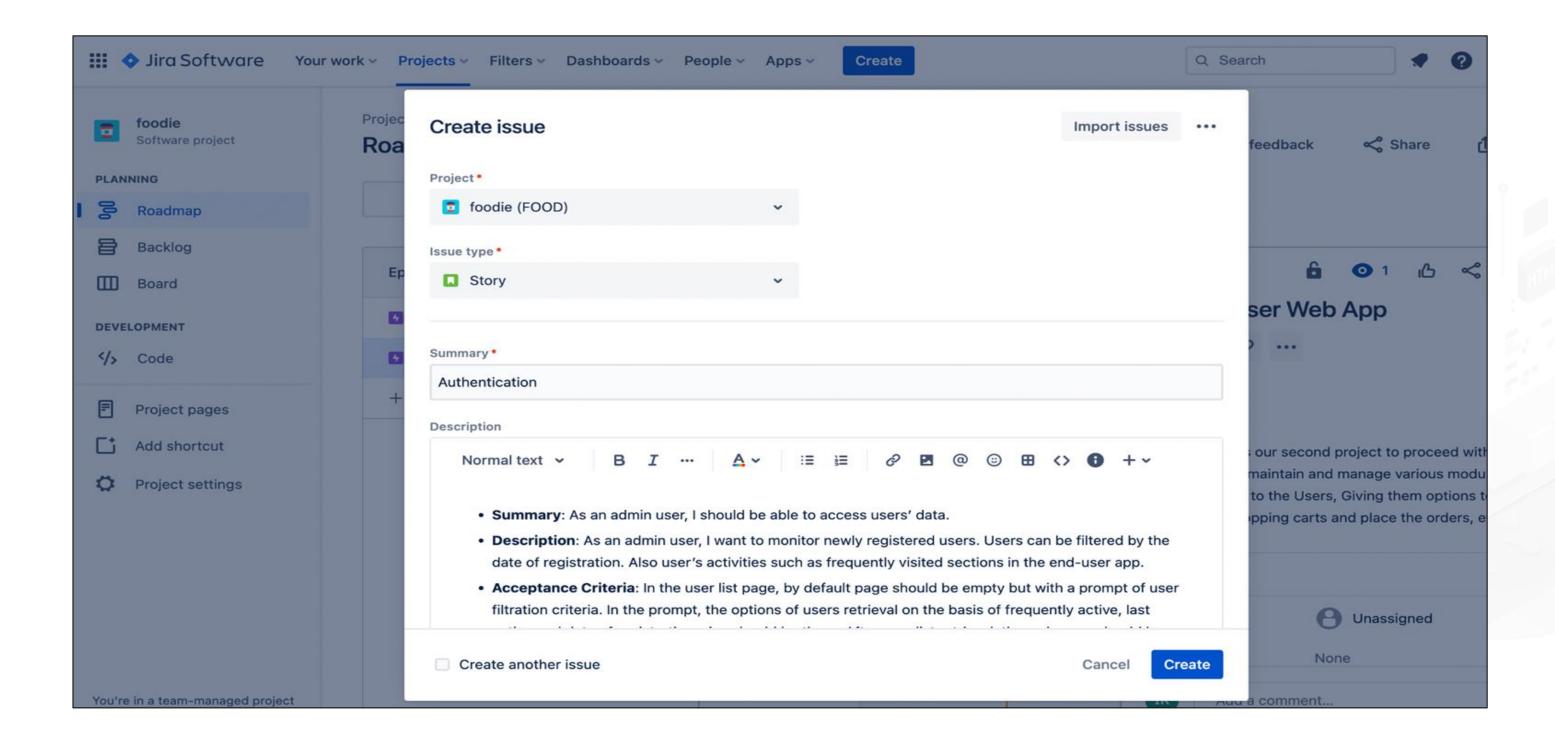


Roadmap



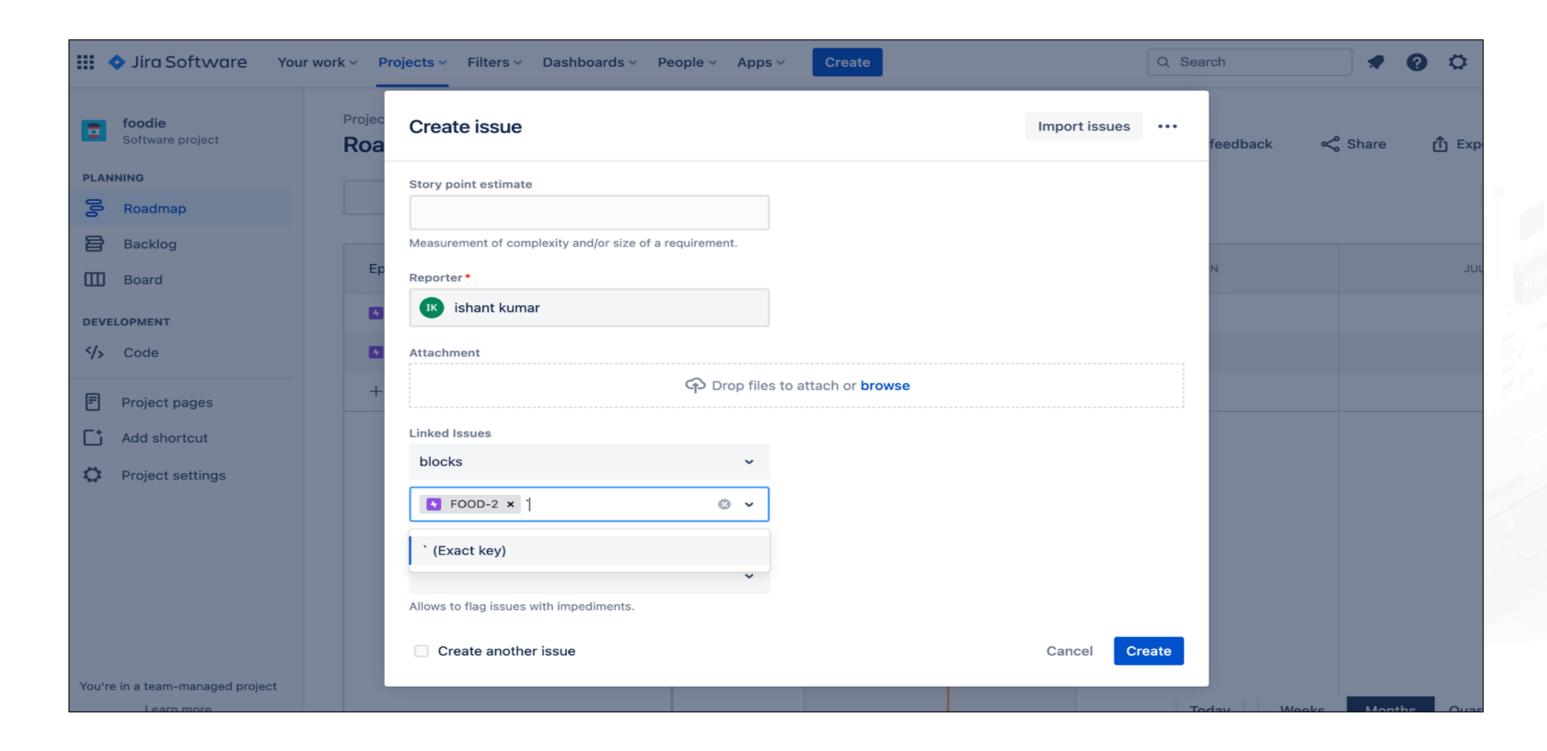


User Story



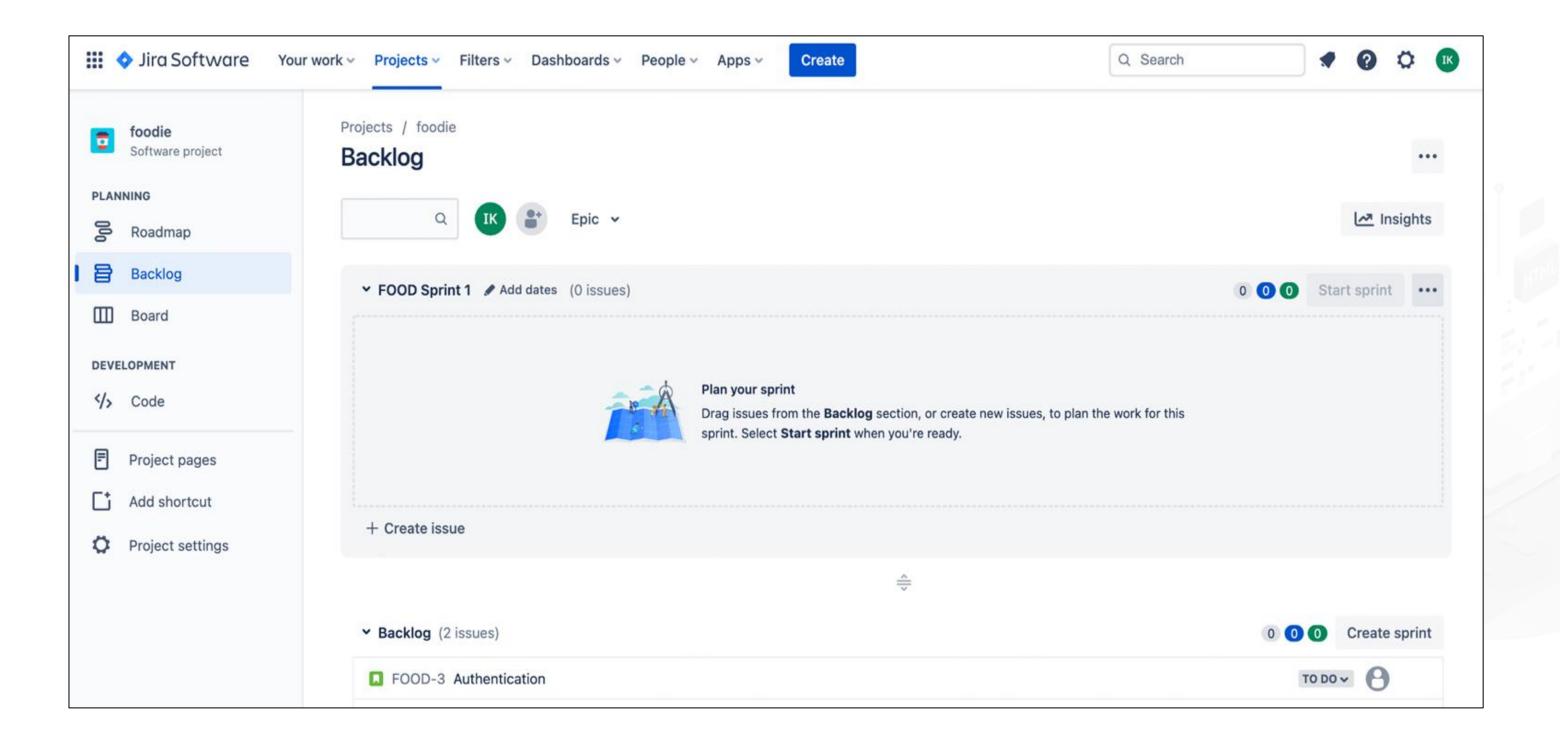


Link Story to Epic



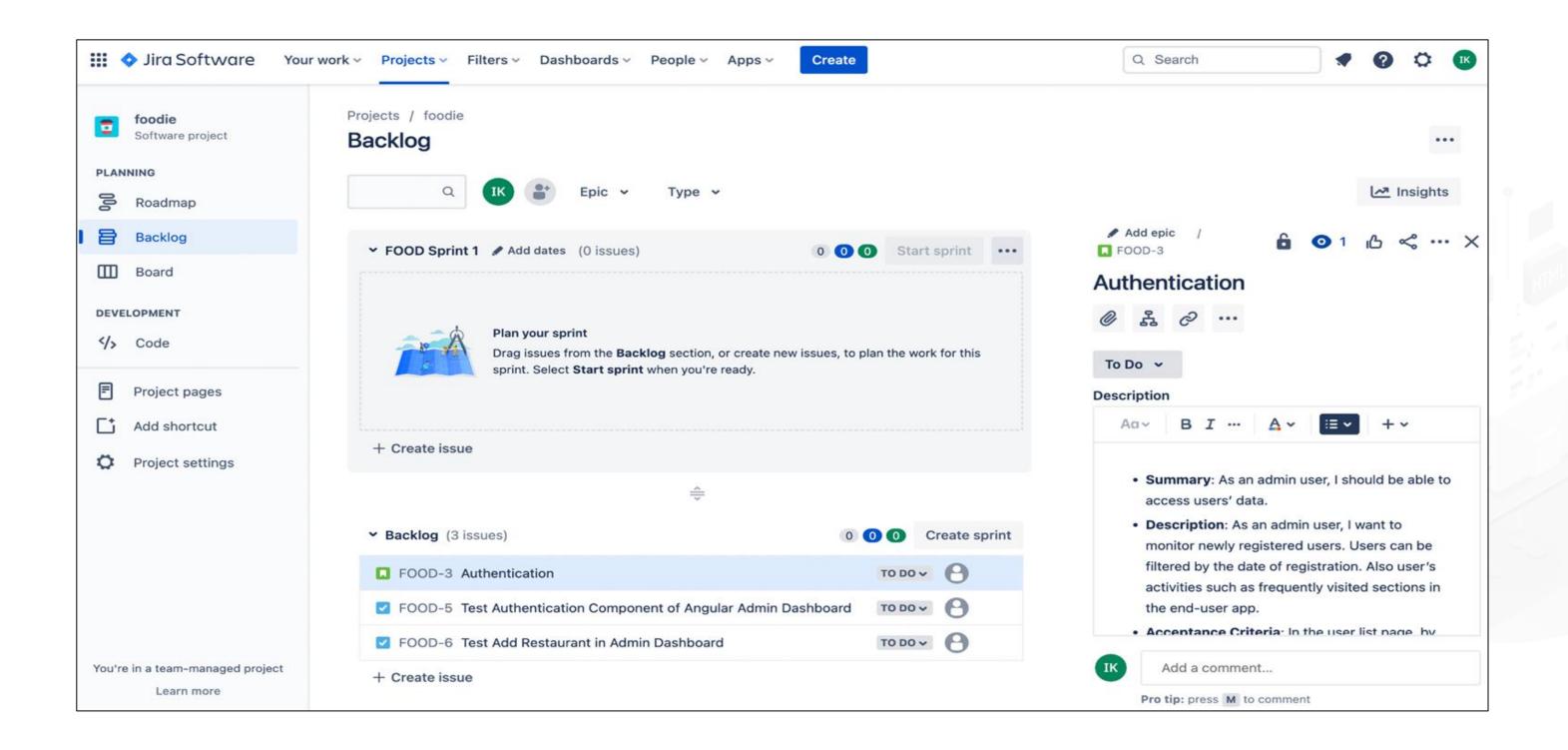


Backlog



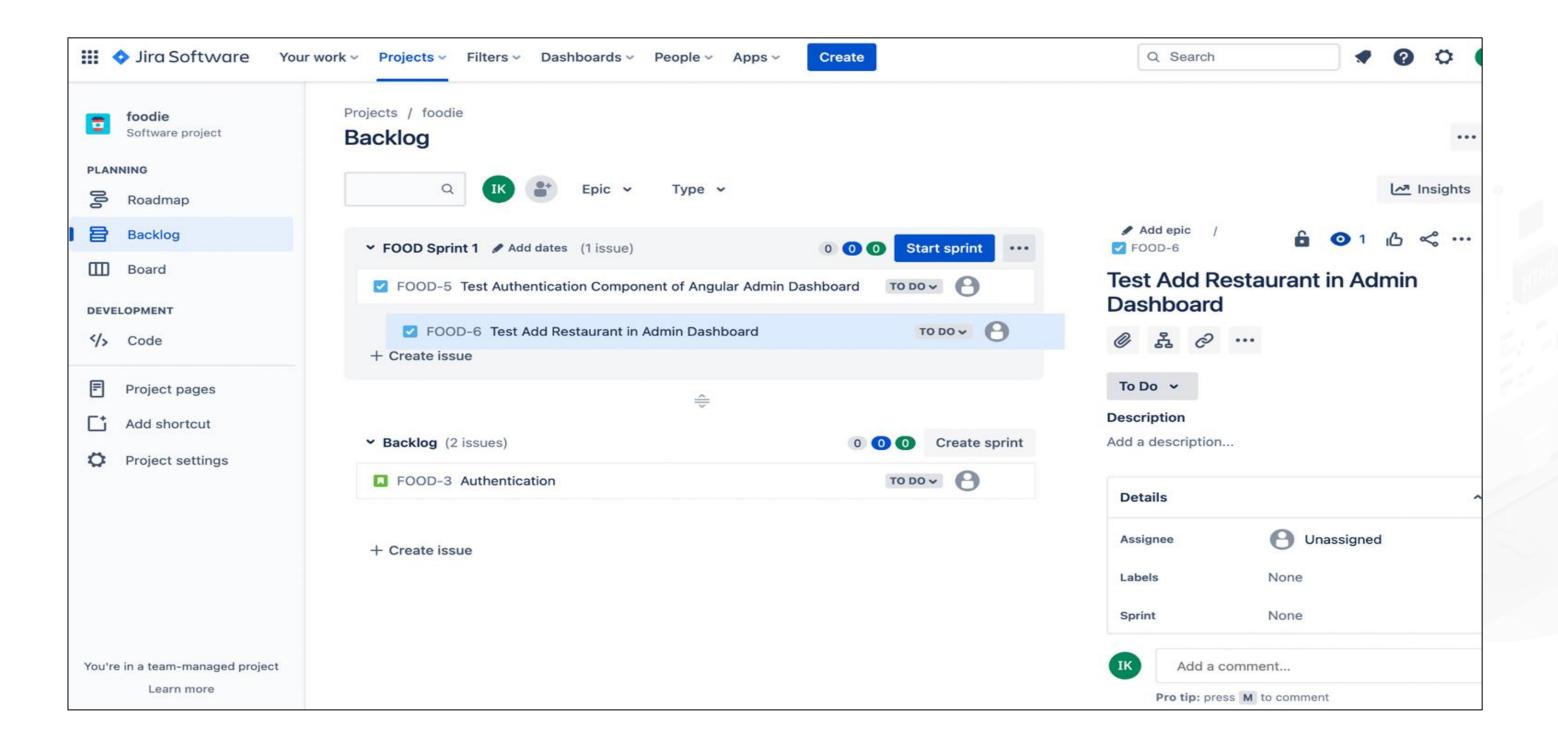


Tasks



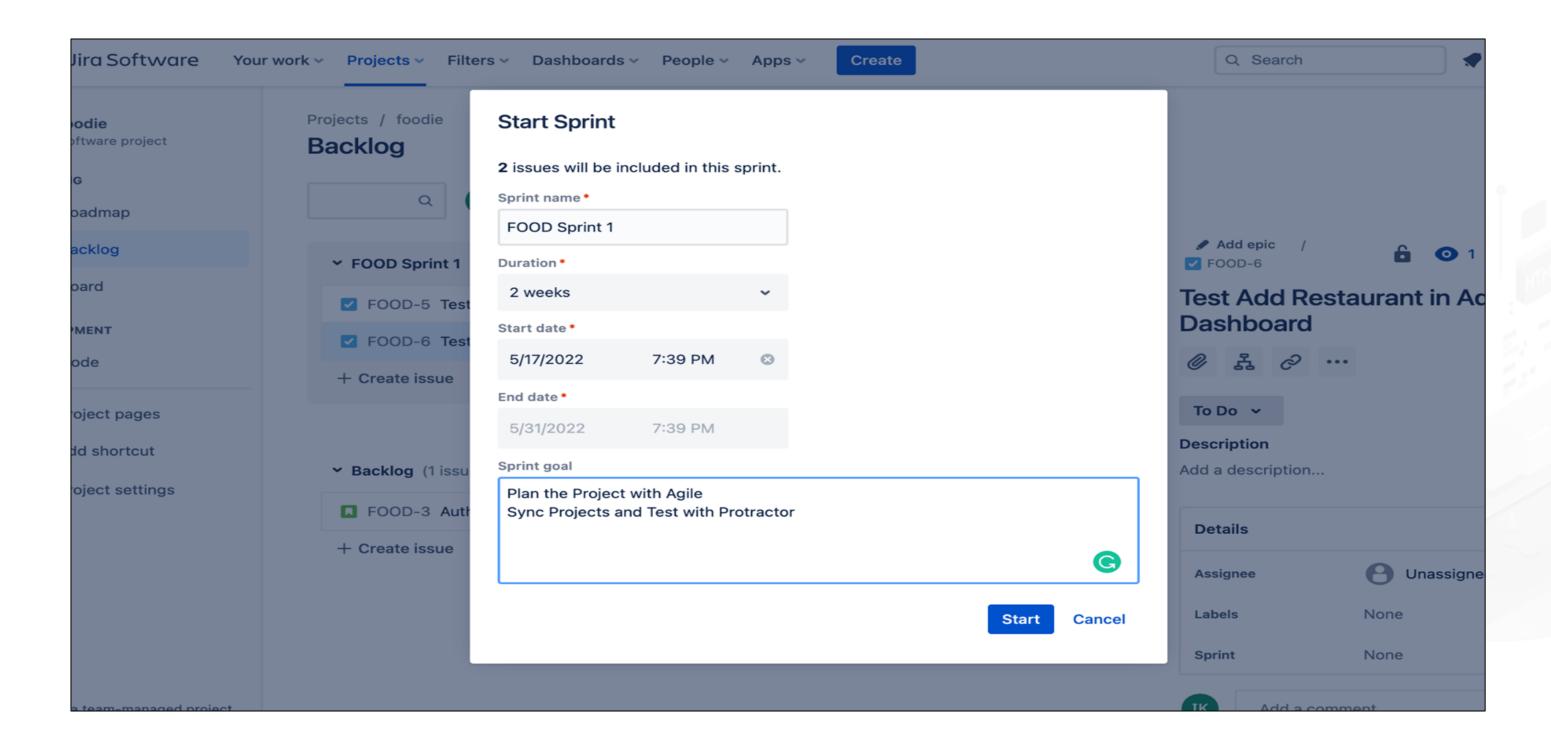


Sprint Planning





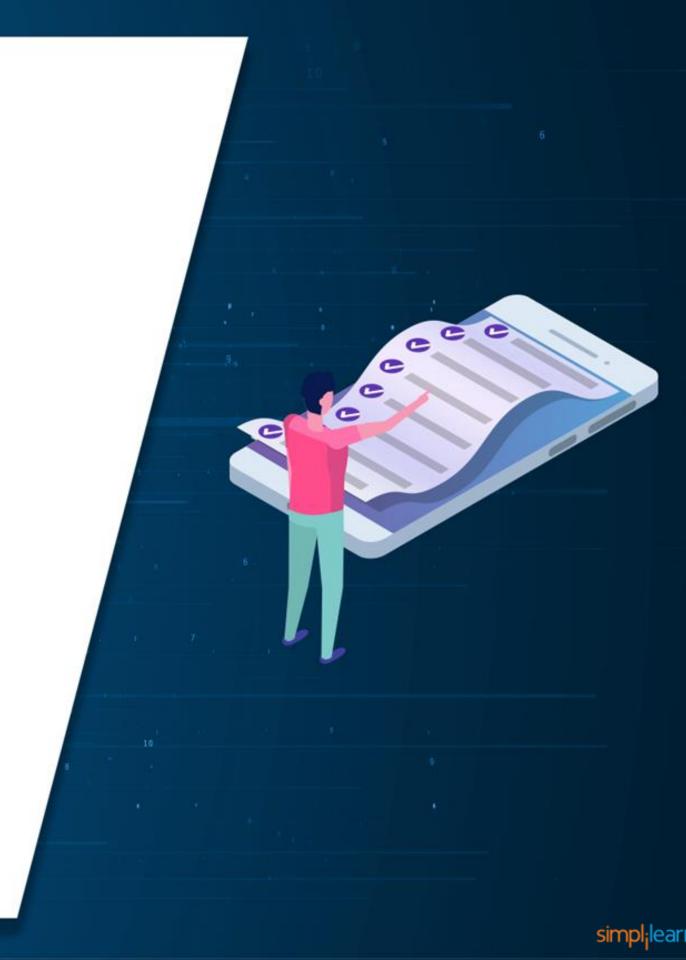
Starting a Sprint





Key Takeaways

- Users can do the project planning through Agile.
- They can work with user stories following Agile.
- They can perform hands-on Agile software development.
- They can also create projects and plan sprints in Jira.



Before the Next Class

Since you have successfully completed this session, in the next discussion, you should know how to:

- Use Git commands
- Work with Angular CLI
- Build Angular projects
- Execute HTML and CSS



What Next?

Now, we have finished our Project Planning. In our next discussion, we will:

- See how to work with Git
- Sync the repository of Angular project for admin dashboard
- Sync the repository of Angular project for end user web app
- Work with database structure

