

**PES University**  
**LAB 2: Software Engineering (UE23CS341A)**

**Date:** August 25, 2025

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**SRN:** PES1UG23CS401

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**Scenario: Self-Service Coffee Kiosk**

You are designing the software for a self-service coffee kiosk in a busy café. The kiosk must allow customers to:

1. Select a coffee (Espresso, Americano, Latte, Cappuccino).
2. Choose size (Small, Medium, Large).
3. Customize add-ons (Extra shot, Soy/Almond milk, Syrups).
4. Pay via credit/debit card or mobile wallet.
5. Print a receipt with order details and loyalty points added.

The kiosk screen should be responsive and straightforward. Customers must complete a single order in under 60 seconds. Password-protected admin mode allows café staff to refill ingredients, update prices, and view sales reports.

# Jira backlog with Epics and User Stories

The screenshot displays the Jira interface for the 'Coffee-Kiosk' project. The left sidebar shows the navigation menu with options like 'For you', 'Recent', 'Starred', 'Apps', 'Plans', 'Projects', and 'Teams'. The main content area shows the 'CK board' with a search bar and a 'Create' button. The board is organized into two sections: 'CK Sprint 1' (25 Aug – 1 Sep) and 'Backlog' (6 work items). The 'CK Sprint 1' section contains two items: 'CK-4 Story 1.1: Coffee Selection' and 'CK-5 Story 1.2: Size selection', both in 'IN PROGRESS' status. The 'Backlog' section contains six items: 'CK-6 Story 1.3: Add-on selection', 'CK-11 Story 2.3: View sales report', 'CK-10 Story 2.2: Update prices', 'CK-9 Story 2.1: Refill Ingredients', 'CK-7 Story 3.1: Payment gateway', and 'CK-8 Story 3.2: Print receipt after order'. A 'Create epic' button is visible in the left sidebar. A bottom bar shows '2 selected' items with options to 'Select all', 'Edit fields', 'Change status', 'Watch options', and 'Delete'.

Projects / Coffee-Kiosk  
CK board

Summary Timeline Backlog Active sprints Calendar Reports List Forms Goals All work Components Code More 4 +

Search backlog Version Epic Quick filters

**Epic**

- No epic
- Epic 1: Customer Ordering Experience
- Epic 2: Admin Control Experience
- Epic 3: Payment Gateway Integration
- + Create epic

**CK Sprint 1** 25 Aug – 1 Sep (2 work items) 0 34 0 Complete sprint

- CK-4 Story 1.1: Coffee Selection EPIC 1: CUST... IN PROGRESS 21
- CK-5 Story 1.2: Size selection EPIC 1: CUST... IN PROGRESS 13

**Backlog** (6 work items) 19 0 0 Create sprint

- Create a whiteboard to plan your work TRY
- CK-6 Story 1.3: Add-on selection EPIC 1: CUST... TO DO 8
- CK-11 Story 2.3: View sales report EPIC 2: ADMI... TO DO 5
- CK-10 Story 2.2: Update prices EPIC 2: ADMI... TO DO 2
- CK-9 Story 2.1: Refill Ingredients EPIC 2: ADMI... TO DO 3
- CK-7 Story 3.1: Payment gateway EPIC 3: PAYM... TO DO 0
- CK-8 Story 3.2: Print receipt after order EPIC 3: PAYM... TO DO 1

+ Create

2 selected Select all Edit fields Change status Watch options Delete

This screenshot is similar to the one above, but it includes a user profile dropdown menu on the right side. The menu is open, showing the user's name 'Nishant Holla' and email 'nishantholla19@gmail.com'. The menu options are: Profile, Account settings, Theme, Open Quickstart, Switch account, and Log out. The background content is the same Jira interface as the first screenshot.

Projects / Coffee-Kiosk  
CK board

Summary Timeline Backlog Active sprints Calendar Reports List Forms Goals All work Components Code More 4 +

Search backlog Version Epic Quick filters

**Epic**

- No epic
- Epic 1: Customer Ordering Experience
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- + Create epic

**CK Sprint 1** 25 Aug – 1 Sep (2 work items) 0 34 0 Complete sprint

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**Backlog** (6 work items) 19 0 0 Create sprint

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- CK-10 Story 2.2: Update prices EPIC 2: ADMI... TO DO 2
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- CK-7 Story 3.1: Payment gateway EPIC 3: PAYM... TO DO 0
- CK-8 Story 3.2: Print receipt after order EPIC 3: PAYM... TO DO 1

+ Create

2 selected Select all Edit fields Change status Watch options Delete

**User Profile Menu:**

- Nishant Holla nishantholla19@gmail.com
- Profile
- Account settings
- Theme
- Open Quickstart
- Switch account
- Log out

## Story point assignments

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> CK-4	Story 1.1: Coffee Selection	EPIC 1: CUST...	IN PROGRESS	21	^	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> CK-5	Story 1.2: Size selection	EPIC 1: CUST...	IN PROGRESS	13	^	

☐ **Backlog** (6 work items) 19 0 0 Create sprint

Create a whiteboard to plan your work TRY ... ×

<input type="checkbox"/>	<input checked="" type="checkbox"/> CK-6	Story 1.3: Add-on selection	EPIC 1: CUST...	TO DO	8	=	
<input type="checkbox"/>	<input checked="" type="checkbox"/> CK-11	Story 2.3: View sales report	EPIC 2: ADMI...	TO DO	5	=	
<input type="checkbox"/>	<input checked="" type="checkbox"/> CK-10	Story 2.2: Update prices	EPIC 2: ADMI...	TO DO	2	^	
<input type="checkbox"/>	<input checked="" type="checkbox"/> CK-9	Story 2.1: Refill Ingredients	EPIC 2: ADMI...	TO DO	3	^	
<input type="checkbox"/>	<input checked="" type="checkbox"/> CK-7	Story 3.1: Payment gateway	EPIC 3: PAYM...	TO DO	0	^	
<input type="checkbox"/>	<input checked="" type="checkbox"/> CK-8	Story 3.2: Print receipt after order	EPIC 3: PAYM...	TO DO	1	^	

## Sprint board (Active Sprint view)

### Sprint 1:

For you

Recent

Starred

Apps

Plans **PREMIUM**

Projects

Starred

(Learn) Jira Premium ben...

Recent

Coffee-Kiosk

CK board

More projects

Teams

More

Projects / Coffee-Kiosk

CK board

Summary

Timeline

Backlog

Active sprints

Calendar

Reports

List

Forms

Goals

All work

Components

Code

More

Search board

Epics

Quick filters

Complete sprint

Group: Stories

TO DO

IN PROGRESS 2

DONE

Story 1.1: Coffee Selection

EPIC 1: CUSTOMER ORDERING EXPERIENCE

☒ CK-4

21

^

Story 1.2: Size selection

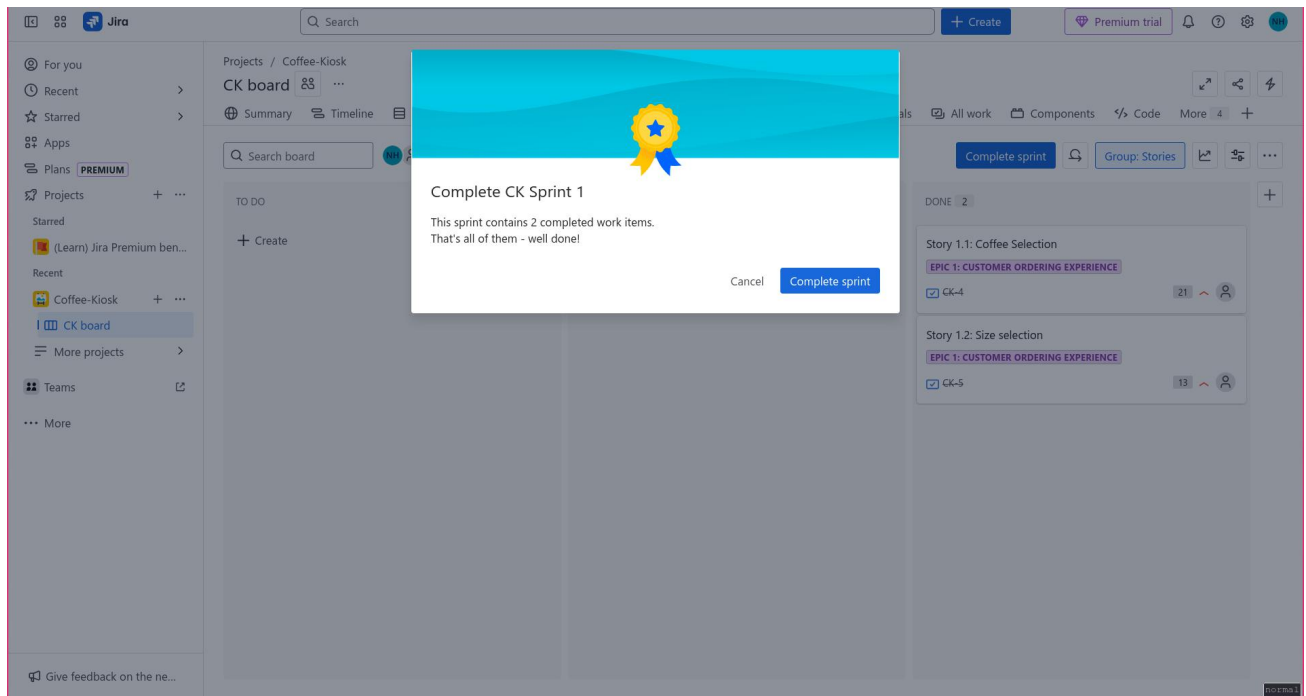
EPIC 1: CUSTOMER ORDERING EXPERIENCE

☒ CK-5

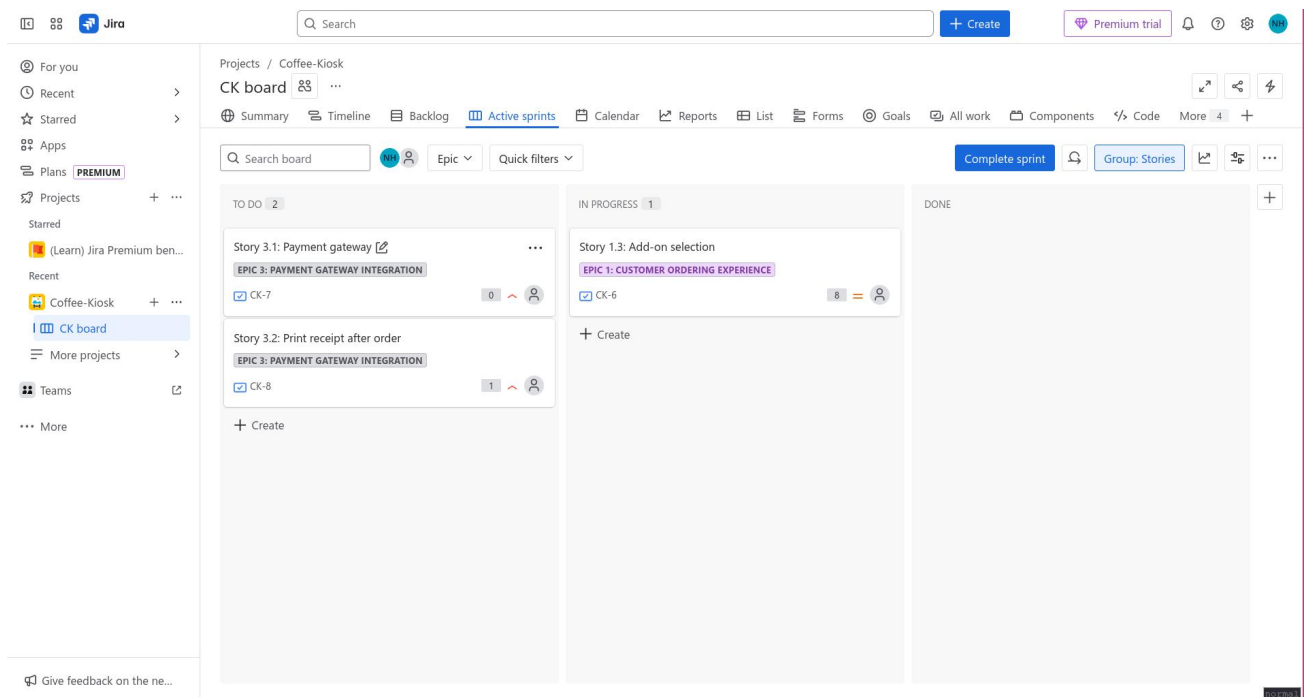
13

^

Give feedback on the ne...



## Sprint 2:



Jira interface showing the CK board (Coffee-Kiosk) with a search bar and navigation tabs (Summary, Timeline, Backlog, Active sprints, Calendar, Reports, List, Forms, Goals, All work). The board displays three stories in the TO DO column:

- Story 3.1: Payment gateway (EPIC 3: PAYMENT GATEWAY INTEGRATION) with task CK-7 (0 points).
- Story 3.2: Print receipt after order (EPIC 3: PAYMENT GATEWAY INTEGRATION) with task CK-8 (1 point).
- Story 1.3: Add-on selection (EPIC 1: CUSTOMER ORDERING EXPERIENCE) with task CK-6 (8 points).

The IN PROGRESS column is empty. The DONE column is also empty. A "Complete sprint" button is visible in the top right. A user profile dropdown menu is open, showing options like Profile, Account settings, Theme, Open Quickstart, Switch account, and Log out.

Jira interface showing the CK board (Coffee-Kiosk) with a search bar and navigation tabs. A modal dialog titled "Complete CK Sprint 2" is displayed, stating: "This sprint contains 3 completed work items. That's all of them - well done!". The dialog has "Cancel" and "Complete sprint" buttons. The board displays three stories in the TO DO column:

- Story 1.3: Add-on selection (EPIC 1: CUSTOMER ORDERING EXPERIENCE) with task CK-6 (8 points).
- Story 3.1: Payment gateway (EPIC 3: PAYMENT GATEWAY INTEGRATION) with task CK-7 (0 points).
- Story 3.2: Print receipt after order (EPIC 3: PAYMENT GATEWAY INTEGRATION) with task CK-8 (1 point).

The IN PROGRESS column is empty. The DONE column is also empty. A "Complete sprint" button is visible in the top right.

## Sprint 3:

For you

Recent

Starred

Apps

Plans **PREMIUM**

Projects

Starred

(Learn) Jira Premium ben...

Coffee-Kiosk

**CK board**

More projects

Teams

More

Projects / Coffee-Kiosk

**CK board**

SummaryTimelineBacklog**Active sprints**CalendarReportsListFormsGoalsAll workComponents

Search board

EPIC

Quick filters

Complete sprint

TO DO

+ Create

IN PROGRESS 3

Story 2.3: View sales report

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-115

Story 2.2: Update prices

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-102

Story 2.1: Refill Ingredients

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-93

DONE

Premium trial

Nishant Holla

nishantholla19@gmail.com

Profile

Account settings

Theme

Open Quickstart

Switch account

Log out

Give feedback on the ne...

For you

Recent

Starred

Apps

Plans **PREMIUM**

Projects

Starred

(Learn) Jira Premium ben...

Coffee-Kiosk

**CK board**

More projects

Teams

More

Projects / Coffee-Kiosk

**CK board**

SummaryTimelineBacklog**Active sprints**CalendarReportsListFormsGoalsAll workComponents

Search board

EPIC

Quick filters

Complete sprint

TO DO

+ Create

IN PROGRESS 3

Story 2.3: View sales report

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-115

Story 2.2: Update prices

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-102

Story 2.1: Refill Ingredients

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-93

DONE 3

Story 2.3: View sales report

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-115

Story 2.2: Update prices

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-102

Story 2.1: Refill Ingredients

EPIC 2: ADMIN CONTROL EXPERIENCE

CK-93

Premium trial

Nishant Holla

nishantholla19@gmail.com

Profile

Account settings

Theme

Open Quickstart

Switch account

Log out

Give feedback on the ne...

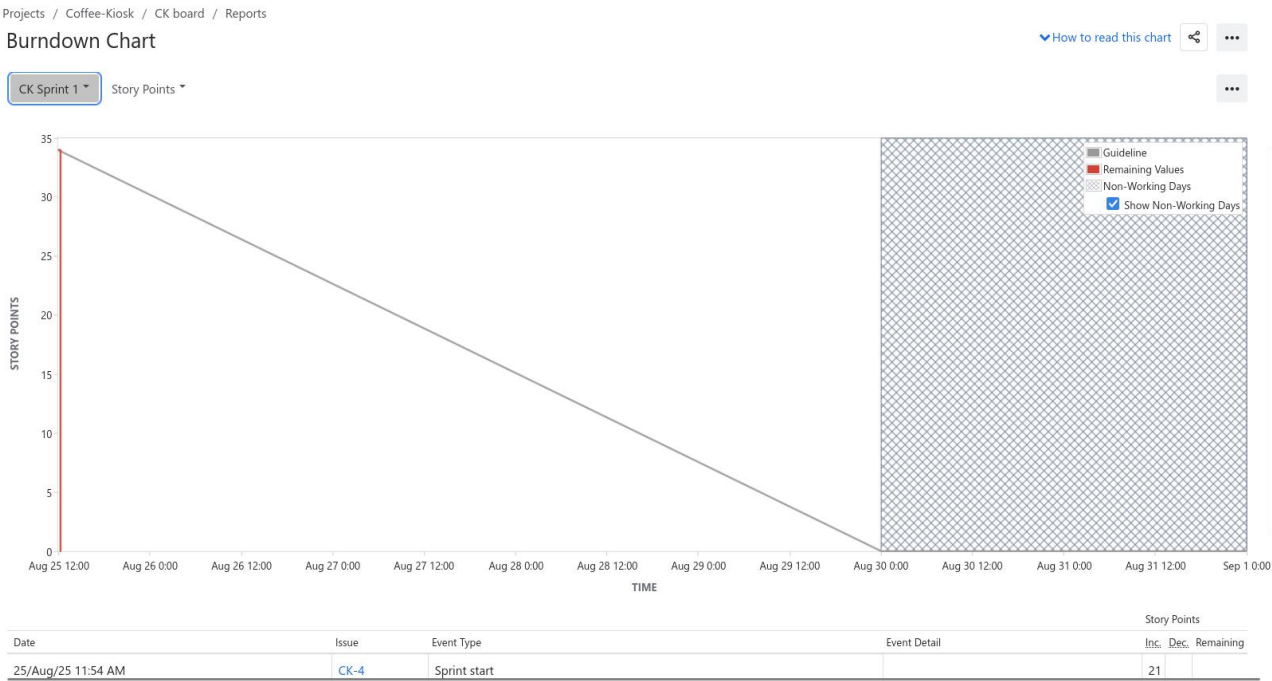
Complete CK Sprint 3

This sprint contains 3 completed work items.  
That's all of them - well done!

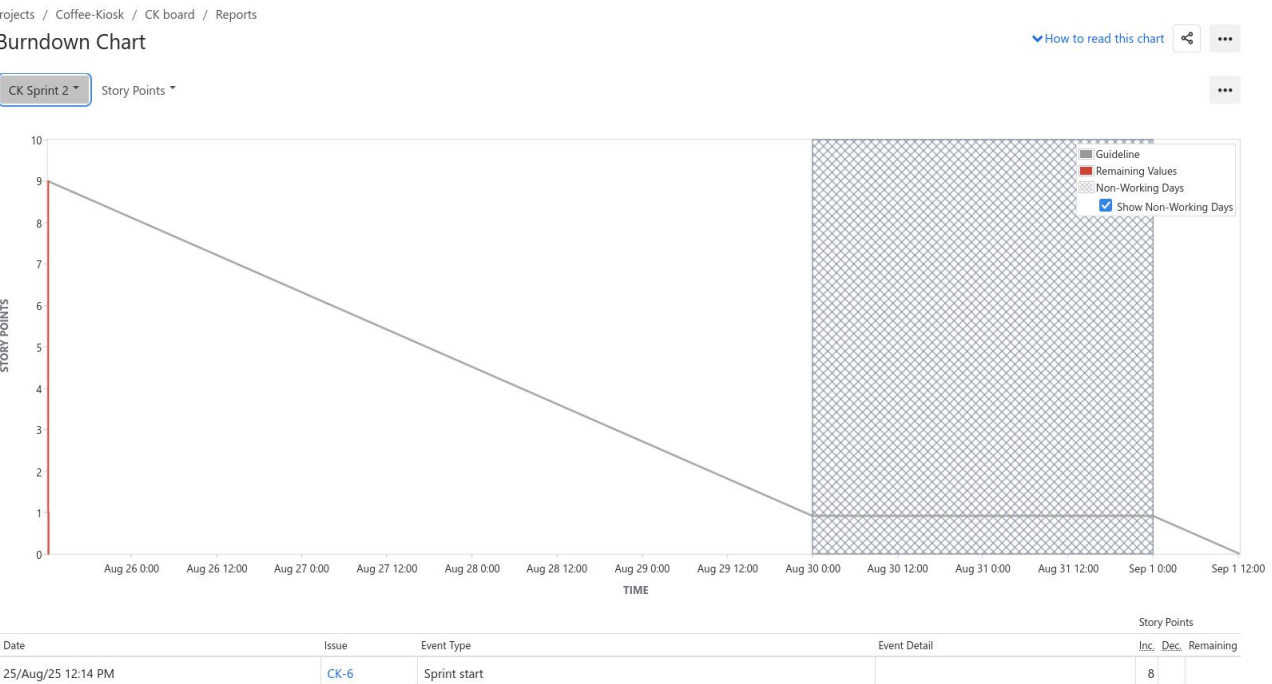
CancelComplete sprint

# Burndown Chart:

## Sprint 1:



## Sprint 2:



## Sprint 3:

CK Sprint 3 ▾ Story Points ▾

