

PES University
LAB 2: Software Engineering (UE23CS341A)

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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 shows the Jira Backlog page for the 'CK board' project. The left sidebar shows the navigation menu with 'CK board' selected. The main area displays the backlog under 'CK Sprint 1' (25 Aug – 1 Sep). The backlog is organized into two sections: 'Epic' and 'Backlog'.

Epic:

- No epic
- Epic 1: Customer Ordering Experience
 - CK-4 Story 1.1: Coffee Selection (EPIC 1: CUST... IN PROGRESS)
 - CK-5 Story 1.2: Size selection (EPIC 1: CUST... IN PROGRESS)
- Epic 2: Admin Control Experience
- Epic 3: Payment Gateway Integration

Backlog:

- CK-6 Story 1.3: Add-on selection (EPIC 1: CUST... TO DO)
- CK-11 Story 2.3: View sales report (EPIC 2: ADMI... TO DO)
- CK-10 Story 2.2: Update prices (EPIC 2: ADMI... TO DO)
- CK-9 Story 2.1: Refill Ingredients (EPIC 2: ADMI... TO DO)
- CK-7 Story 3.1: Payment gateway (EPIC 3: PAYM... TO DO)
- CK-8 Story 3.2: Print receipt after order (EPIC 3: PAYM... TO DO)

At the bottom, there are buttons for '2 selected', 'Select all', 'Edit fields', 'Change status', 'Watch options', and 'Delete'.

This screenshot is identical to the one above, showing the Jira Backlog page for 'CK board'. However, a user profile overlay is visible on the right side of the screen, belonging to Nishant Holla (nishantholla19@gmail.com). The overlay includes links for 'Profile', 'Account settings', 'Theme', 'Open Quickstart', 'Switch account', and 'Log out'.

Story point assignments

<input checked="" type="checkbox"/> CK-4 Story 1.1: Coffee Selection	EPIC 1: CUST...	IN PROGRESS	21	~	
<input checked="" type="checkbox"/> CK-5 Story 1.2: Size selection	EPIC 1: CUST...	IN PROGRESS	13	~	
<input type="checkbox"/> Backlog (6 work items)					
<input type="checkbox"/> Create a whiteboard to plan your work TRY	... X				
<input type="checkbox"/> CK-6 Story 1.3: Add-on selection	EPIC 1: CUST...	TO DO	8	=	
<input type="checkbox"/> CK-11 Story 2.3: View sales report	EPIC 2: ADMI...	TO DO	5	=	
<input type="checkbox"/> CK-10 Story 2.2: Update prices	EPIC 2: ADMI...	TO DO	2	~	
<input type="checkbox"/> CK-9 Story 2.1: Refill Ingredients	EPIC 2: ADMI...	TO DO	3	~	
<input type="checkbox"/> CK-7 Story 3.1: Payment gateway	EPIC 3: PAYM...	TO DO	0	~	
<input type="checkbox"/> CK-8 Story 3.2: Print receipt after order	EPIC 3: PAYM...	TO DO	1	~	

Sprint board (Active Sprint view)

Sprint 1:

The screenshot shows the Jira Sprint board interface for the 'CK board' under the 'Active sprints' tab. The board is divided into three columns: TO DO, IN PROGRESS, and DONE.

- TO DO:** Contains two items:
 - Story 1.1: Coffee Selection (EPIC 1: CUSTOMER ORDERING EXPERIENCE) - Status: CK-4 (IN PROGRESS)
 - Story 1.2: Size selection (EPIC 1: CUSTOMER ORDERING EXPERIENCE) - Status: CK-5 (IN PROGRESS)
- IN PROGRESS:** Contains 2 items (Story 1.1 and Story 1.2).
- DONE:** Contains 0 items.

On the left sidebar, the 'CK board' is selected. The navigation bar at the top includes links for Summary, Timeline, Backlog, Active sprints (which is active), Calendar, Reports, List, Forms, Goals, All work, Components, Code, More, and a Premium trial offer.

The screenshot shows a Jira board for the 'CK board' project under the 'Coffee-Kiosk' project. A modal window titled 'Complete CK Sprint 1' is displayed, indicating that the sprint contains 2 completed work items. The modal includes a yellow ribbon icon with a blue star and a 'Complete sprint' button. The board interface shows three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. In the 'DONE' column, two stories are listed: 'Story 1.1: Coffee Selection' and 'Story 1.2: Size selection', both associated with 'EPIC 1: CUSTOMER ORDERING EXPERIENCE'. The 'IN PROGRESS' column has one story: 'Story 1.3: Add-on selection' associated with 'EPIC 1: CUSTOMER ORDERING EXPERIENCE'. The 'TO DO' column has two stories: 'Story 3.1: Payment gateway' and 'Story 3.2: Print receipt after order', both associated with 'EPIC 3: PAYMENT GATEWAY INTEGRATION'. The sidebar on the left lists various Jira features like 'For you', 'Recent', 'Starred', 'Plans', 'Projects', 'Teams', and 'More'.

Sprint 2:

The screenshot shows a Jira board for the 'CK board' project under the 'Coffee-Kiosk' project. The navigation bar indicates 'Active sprints' is selected. The board interface shows three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. In the 'TO DO' column, there are two stories: 'Story 3.1: Payment gateway' and 'Story 3.2: Print receipt after order', both associated with 'EPIC 3: PAYMENT GATEWAY INTEGRATION'. In the 'IN PROGRESS' column, there is one story: 'Story 1.3: Add-on selection' associated with 'EPIC 1: CUSTOMER ORDERING EXPERIENCE'. The 'DONE' column is currently empty. The sidebar on the left lists various Jira features like 'For you', 'Recent', 'Starred', 'Plans', 'Projects', 'Teams', and 'More'.

Jira Board View:

- TO DO**: Story 3.1: Payment gateway (EPIC 3: PAYMENT GATEWAY INTEGRATION), CK-7
- IN PROGRESS**: Story 1.3: Add-on selection (EPIC 1: CUSTOMER ORDERING EXPERIENCE), CK-6
- DONE**: Story 3.2: Print receipt after order (EPIC 3: PAYMENT GATEWAY INTEGRATION), CK-8

A context menu is open for CK-6, showing options like Complete sprint, Profile, Account settings, Theme, Open Quickstart, Switch account, and Log out.

Complete CK Sprint 2

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

Cancel Complete sprint

The board view shows the same state as the previous screenshot, with the 'Complete sprint' button highlighted in the dialog.

Sprint 3:

Jira

Projects / Coffee-Kiosk

CK board ...

Summary Timeline Backlog Active sprints Calendar Reports List Forms Goals All work

Search board Epic Quick filters

TO DO IN PROGRESS 3 DONE

+ Create

Story 2.3: View sales report EPIC 2: ADMIN CONTROL EXPERIENCE CK-11

Story 2.2: Update prices EPIC 2: ADMIN CONTROL EXPERIENCE CK-10

Story 2.1: Refill Ingredients EPIC 2: ADMIN CONTROL EXPERIENCE CK-9

Complete sprint

Nishant Holla nishantholla19@gmail.com

Profile Account settings Theme Open Quickstart Switch account Log out

Give feedback on the ne...

This screenshot shows a Jira board for the 'Coffee-Kiosk' project. The board has three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. In the 'IN PROGRESS' column, there are three stories: 'Story 2.3: View sales report', 'Story 2.2: Update prices', and 'Story 2.1: Refill Ingredients', all under the 'EPIC 2: ADMIN CONTROL EXPERIENCE' epic. Each story has a checkbox next to it, indicating they are completed. A modal window titled 'Complete CK Sprint 3' is open, showing a yellow ribbon icon and the message 'This sprint contains 3 completed work items. That's all of them - well done!'. The user's profile is visible on the right side of the screen.

Jira

Projects / Coffee-Kiosk

CK board ...

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

Search board

TO DO

+ Create

Complete CK Sprint 3

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

Cancel Complete sprint

Story 2.3: View sales report EPIC 2: ADMIN CONTROL EXPERIENCE CK-11

Story 2.2: Update prices EPIC 2: ADMIN CONTROL EXPERIENCE CK-10

Story 2.1: Refill Ingredients EPIC 2: ADMIN CONTROL EXPERIENCE CK-9

Give feedback on the ne...

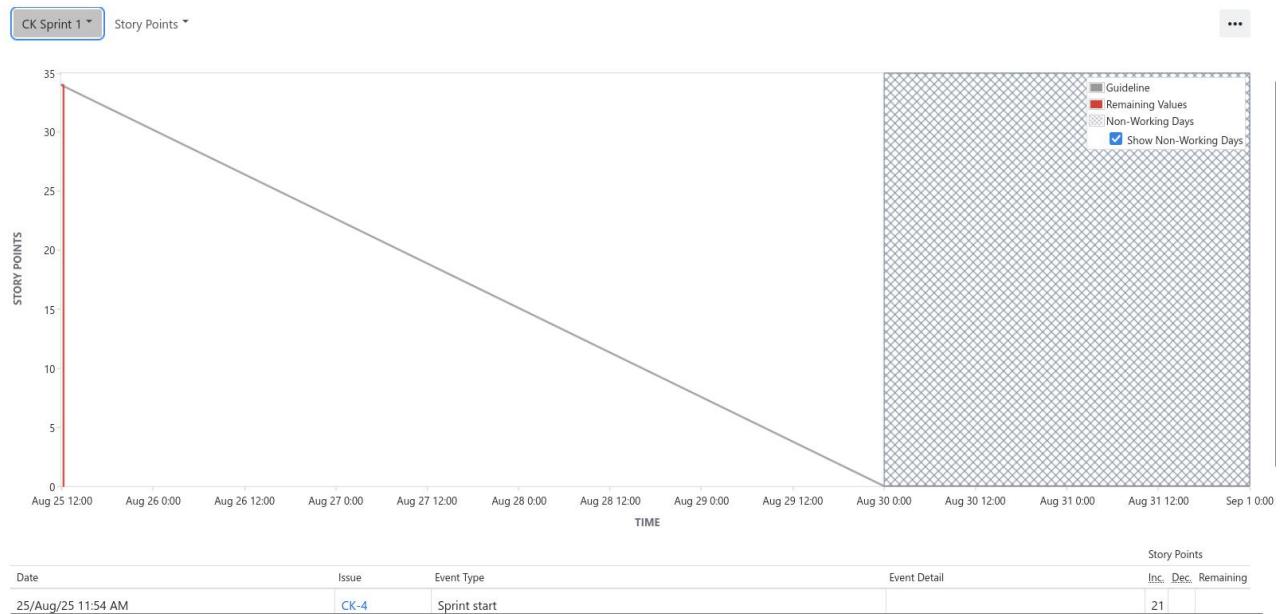
This screenshot shows the same Jira board as the previous one, but with a modal window centered over the board. The modal is titled 'Complete CK Sprint 3' and contains the message 'This sprint contains 3 completed work items. That's all of them - well done!' with a yellow ribbon icon. There are 'Cancel' and 'Complete sprint' buttons at the bottom of the modal. The board itself is mostly grayed out, except for the completed stories which are visible in the background.

Burndown Chart:

Sprint 1:

Projects / Coffee-Kiosk / CK board / Reports

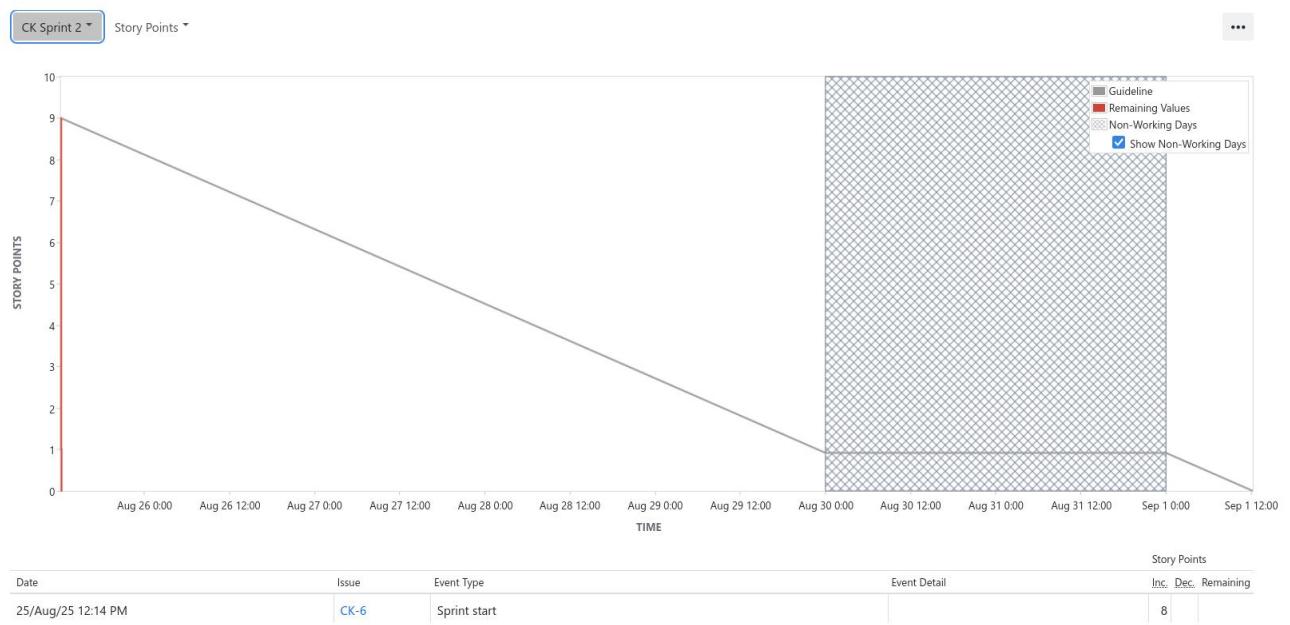
Burndown Chart



Sprint 2:

Projects / Coffee-Kiosk / CK board / Reports

Burndown Chart



Sprint 3:

CK Sprint 3 ▾ Story Points ▾

