

# ACC Sprint 1 (Sept 25 – Oct 9)

**Goal:** Create backend proof of concept • Get frontend dummy to a satisfying stopping point • Close out spikes • Complete EKS setup and documentation.

**Theme:** *Establish foundation → integrate core AWS + backend → begin frontend connection.*

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## Sprint 1 Summary — 4-Up View

Accomplishments	In Progress
<ul style="list-style-type: none"><li>• <b>AWS Infrastructure:</b> EKS Cluster setup, VPC &amp; ECR configured.</li><li>• Step Functions &amp; CodeBuild research initiated.</li><li>• <b>Backend:</b> REST API backbone implemented, AWS integration validated, backend refactored to async service.</li><li>• <b>Frontend:</b> Main screen + session sidebar developed, text field &amp; upload button functional.</li><li>• <b>Docs &amp; Planning:</b> Senior Project Dashboard finalized, website &amp; synopsis delivered.</li></ul>	<ul style="list-style-type: none"><li>• <b>DynamoDB Schema Spike (ACC-55):</b> Initial data model for session storage.</li><li>• <b>Step Functions Deep Dive (ACC-24):</b> Integration research.</li><li>• <b>Workflow Documentation (ACC-3):</b> Capturing artifact posting process.</li></ul>
Risks / Issues	Next Steps
<ul style="list-style-type: none"><li>• <b>AWS Infrastructure Complexity</b> — <i>High impact but stabilized.</i> → Mitigate via IaC (eksctl YAML) and dedicated experts.</li><li>• <b>Underestimated Task Complexity</b> — <i>Moderate.</i> → Break stories down; focus Sprint 2 on Bedrock artifact integration.</li><li>• <b>Model Performance Uncertainty</b> — <i>Medium.</i> → Keep backend model-agnostic; iterate Bedrock prompts &amp; metrics.</li></ul>	<ul style="list-style-type: none"><li>• Finalize <b>DynamoDB schema</b> &amp; connect <b>Bedrock API</b>.</li><li>• Connect <b>frontend</b> to <b>backend</b> via <b>API Gateway</b>.</li><li>• Implement <b>artifact generation endpoint</b> using Bedrock.</li><li>• Plan <b>Cognito authentication</b> for secure access.</li></ul>

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