

X



3



New





Edit Story

USG OVERVIEW

Connected Epic (Optional)

DEVELOPMENT PLAN

Development & Implementation (development)



Story Composition Guidance

Create Task

Feature (What functionality?)

e.g., drag-and-drop interface, AI suggestions, search functionality

Value (What benefit or outcome?)

Our Mission

e.g., save time, improve accuracy, increase productivity
Build ARKHITEKTON to be so **advanced, elegant, and simple** that every other enterprise architecture tool becomes obsolete. We're not just building software - we're creating the future of how architects design, collaborate, and transform complex systems into understandable **excellence**. Model complex systems, visualize data flows, collaborate with team



User Story

Format: As a [persona/role], I want [feature], so that I can [value/requirement]

Display Sync Status

0/0 Status

Complete

Done

Story Points

Making every other EA tool obsolete

5

Priority



User Stories

Medium

Search tasks by title, description, or task ID...

Tech Lead/Architect

User Stories

Search stories and defects...
The ability to manually trigger sync or disconnect, so I can manage the integration from ARKHITEKTON UI.
315 Total Stories

All Epics

Acceptance Criteria (Gherkin)



Gherkin Guide
Create Epic

Feature: Jira Sync UI

Import CSV

Scenario: Display sync status badge on story card

Given a story is linked to Jira issue "PROJ-456"

When viewing the story in the backlog or board

Then a Jira badge is displayed with the issue key

And the badge color indicates sync status (green=synced,
yellow=pending, red=error)

1-25 And clicking the badge opens the Jira issue in a new tab

Scenario: Manual sync trigger

Given a story is not yet synced to Jira

When the user clicks "Sync to Jira" button

✓ Valid Gherkin format

1
of

Defects & Issues

13

> +
Log Defect

»

No defects logged for this story. Quality looks good! ✨

US-TD5NIIP



Jira Sync UI - Display Sync Status and Manual Controls GitHub Integration

done
Repository

Owner/repository
medium

Branch

5 pts

feature/story-branch

Development & Implementation



As a user, I need to see which stories are synced with Jira and have the ability to manually trigger sync or disconnect, so I can manage the integration from ARKHITEKTON UI.



Acceptance Criteria:

Create Commit

Feature: Jira Sync UI Scenario: Display sync status badge on story card Given a story is linked to Jira issue "PROJ-456" When viewing the story in the backlog or board Then a Jira badge is displayed with the issue key And the badge color indicates sync status (green=synced, yellow=pending, red=error) And clicking the badge opens the Jira issue in a new tab Scenario: Manual sync trigger Given a story is not yet synced to Jira When the user clicks "Sync to Jira" button Then a dialog appears to select Jira project And on confirmation, the sync is initiated And a success toast shows "Synced to PROJ-456" Scenario: View sync history and errors Given a story has sync errors When the user views the story details Then the sync status section shows error details And displays last sync attempt timestamp And provides "Retry Sync" button Scenario: Disconnect Jira link Given a story is linked to Jira When the user clicks "Disconnect from Jira" Then a confirmation dialog appears And on confirm, the mapping is deleted And the story jiralIssueKey is cleared



US-T5QNZ82

Outbound Sync - Push ARKHITEKTON Changes to Jira

backlog

high

8 pts

Development & Implementation

As a user, when I update a story in ARKHITEKTON that is linked to Jira, the changes should automatically sync to Jira in real-time, so both systems stay consistent.

Acceptance Criteria:

Feature: Outbound Sync to Jira Scenario: Sync story creation to Jira Given a user creates a story in ARKHITEKTON And selects "Sync to Jira" with project key "PROJ" When the story is saved Then a Jira issue is created via REST API And the mapping is established And the sync status shows "synced" Scenario: Sync story update to Jira Given a story is already linked to Jira issue "PROJ-456" When the user updates the story title or description Then the changes are pushed to Jira via PUT API And sync_source is set to "arkhitekton" to prevent loops And lastSyncedAt timestamp is updated Scenario: Field mapping during sync Given a story has status "in-progress" and priority "high" When syncing to Jira Then status is mapped to "In Progress" And priority is mapped to "P1" And all custom fields are correctly transformed



US-SRV4N7Z

ID Mapping Service - Link ARKHITEKTON Stories to Jira Issues

done

high

5 pts

Development & Implementation

As a system architect, I need an ID mapping service that maintains relationships between ARKHITEKTON entities and Jira issues, so that each system can keep its own ID format while staying synchronized.

Acceptance Criteria:

Feature: ID Mapping Service Scenario: Create mapping when syncing to Jira Given a user story exists in ARKHITEKTON with ID "US-ABC123" When the story is synced to Jira for the first time Then a Jira issue is created with key "PROJ-456" And a mapping record is created linking "US-ABC123" ↔ "PROJ-456" And the story.jiralssueKey field is updated to "PROJ-456" And Jira custom field ARKHITEKTON_ID is set to "US-ABC123" Scenario: Lookup mapping for inbound sync Given a mapping exists for "PROJ-456" → "US-ABC123" When a webhook is received for "PROJ-456" Then the mapping service finds the linked story "US-ABC123" And returns the ARKHITEKTON entity for update Scenario: Handle unmapped Jira issues Given a Jira issue "PROJ-789" has no ARKHITEKTON mapping When a webhook is received for "PROJ-789" Then the event is checked for ARKHITEKTON_ID custom field And if not found, the webhook is ignored And a log entry notes "no mapping found"



US-SXLNYIG

Jira Webhook Endpoint - Receive Real-time Issue Updates

done

high

5 pts

Development & Implementation

As a platform architect, I need a webhook endpoint that receives Jira issue events in real-time, so that ARKHITEKTON can stay synchronized with changes made in Jira without polling.

Acceptance Criteria:

Feature: Jira Webhook Endpoint Scenario: Receive Jira issue created event Given a Jira webhook is configured with ARKHITEKTON endpoint URL When an issue is created in Jira Then ARKHITEKTON receives the webhook POST request And responds with HTTP 200 within 200ms And stores the webhook event for async processing Scenario: Receive Jira issue updated event Given an existing issue-story mapping exists When an issue is updated in Jira Then ARKHITEKTON receives the webhook with changelog And queues the update for processing And returns success response to Jira Scenario: HMAC signature verification Given a webhook secret is configured When a webhook is received with HMAC signature Then the signature is verified using the shared secret And invalid signatures are rejected with HTTP 401 Scenario: Idempotency protection Given a webhook event has been received When the same webhook is delivered again (retry) Then the duplicate is detected via idempotency key And processing is skipped And HTTP 200 is still returned



US-I7KM8RT

Jira Webhook Endpoint - Receive Real-time Issue Updates

in-progress

high

5 pts

Development & Implementation

As a platform architect, I need a webhook endpoint that receives Jira issue events in real-time, so that ARKHITEKTON can stay synchronized with changes made in Jira without polling.

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US-65R28JC

Webhook Performance & Infrastructure Requirements Assessment

backlog

medium

5 pts

Development & Implementation

Assess performance requirements, webhook volume calculations, and infrastructure needs for Jira integration at scale. Design async processing infrastructure.

Acceptance Criteria:

Given ARKHITEKTON will sync with Jira at enterprise scale When assessing infrastructure requirements Then we should calculate webhook volume for 1000 concurrent users And we should design async queue infrastructure (Redis/RabbitMQ/Replit Queue) And we should establish response time targets (<200ms for webhook ACK) And we should design background job processing for sync operations And we should implement webhook health monitoring and alerting And we should handle Jira rate limits (10k requests/hour Cloud, unlimited Data Center) And we should design webhook refresh automation (30-day Jira expiry) And we should calculate database storage requirements for mapping table And we should document infrastructure scaling strategy And we should create performance benchmarks and SLOs



US-ZXC4N12

Bi-Directional Sync Architecture with Loop Prevention Design

backlog

high

8 pts

Development & Implementation

Design webhook-based bi-directional sync architecture with loop prevention, conflict resolution, and async queue processing. Create technical architecture for ARKHITEKTON \leftrightarrow Jira real-time synchronization.

Acceptance Criteria:

Given we need bi-directional sync without infinite loops When designing the sync architecture Then we should implement sync_source tracking ("arkhitekton" vs "jira") And we should design webhook receivers for Jira events (issue_created, issue_updated, issue_deleted) And we should implement webhook filtering to exclude our own updates And we should design async job queue for webhook processing (Redis/Bull) And we should implement HMAC signature verification for webhook security And we should design conflict resolution strategy (last-write-wins with timestamp) And we should implement idempotency keys to prevent duplicate processing And we should handle webhook refresh (30-day expiration in Jira) And we should create sequence diagrams for sync flows And we should document error handling and retry logic



US-WZAB7CF

ARKHITEKTON ↔ Jira Field Mapping Design Specification

backlog

high

3 pts

Development & Implementation

Design comprehensive field mapping strategy between ARKHITEKTON entities (user stories, defects, epics) and Jira issues. Create ID mapping table schema and bi-directional sync rules.

Acceptance Criteria:

Given ARKHITEKTON has user stories, defects, and epics When mapping to Jira Cloud Then User Stories should map to Jira Story/Task issue type And Defects should map to Jira Bug issue type And Epics should map to Jira Epic issue type And we should design jira_integration_mappings table (ARKHITEKTON_ID ↔ JIRA_KEY) And we should map status workflows between systems And we should map priority levels (high/medium/low → P1/P2/P3) And we should identify required Jira custom fields (ARKHITEKTON ID, relatedFiles, etc.) And we should document acceptance criteria mapping strategy And we should create field mapping specification document



US-ULVW5WM

Jira API Authentication & Connectivity Assessment (Spike)

backlog

high

5 pts

Development & Implementation

Technical spike to validate Jira Cloud OAuth 2.0 setup and API connectivity. Establish proof-of-concept authentication flow and verify rate limits for bi-directional sync requirements.

Acceptance Criteria:

Given ARKHITEKTON needs to integrate with Jira Cloud When we implement OAuth 2.0 authentication Then we should successfully obtain access tokens And we should verify Jira REST API v3 connectivity And we should document rate limits (10,000 requests/hour for Cloud) And we should test webhook registration capabilities And we should validate API token approach for Jira Data Center And we should create authentication flow documentation And we should identify required Jira permissions and scopes



US-TG7MSEQ

White grid background pattern for shape palette popovers

done

low

1 pts

Architecture Design & Modeling

Add a subtle white grid background to shape palette popovers to provide visual context and match professional diagramming tool aesthetics (Miro/Figma style).

Acceptance Criteria:

Given I click a shape category icon in the toolbar When the popover panel opens Then I should see a white grid background behind the shapes And the grid should have 20px x 20px cells And the grid lines should be semi-transparent (8% opacity) And the grid should adapt to dark mode with lighter lines And the shapes should remain clearly visible on top of the grid



US-OUW0G7W

Canvas back navigation to Design Studio home

done

medium

2 pts

Architecture Design & Modeling

Add a back navigation button in the canvas header to allow users to easily return to the Design Studio home page, improving navigation flow.

Acceptance Criteria:

Given I am on the Design Studio canvas page When the page loads Then I should see a "Back to Design Studio" button in the header And the button should have an arrow-left icon And clicking the button should navigate to /studio And the button should match the header styling (ghost variant, slate colors) And the button should be positioned before the Dashboard link



US-K7V595F

Story-to-code traceability schema fields for linking implementation

done

high

3 pts

Architecture Design & Modeling

Add relatedFiles and documentationPageId fields to user stories schema to enable complete traceability from requirements to code and documentation, supporting the platform's end-to-end traceability vision.

Acceptance Criteria:

Given I am viewing a user story When I access the story details Then I should see a relatedFiles field that stores an array of file paths linked to this story And I should see a documentationPageId field that links to knowledge base documentation And the schema should use JSONB type for flexible storage And the API should support PATCH operations to update these fields And relatedFiles should be persisted in the database for long-term traceability



US-NFBV72R

Miro-style shape palette with icon toolbar and popover panels

in-progress

high

8 pts

Architecture Design & Modeling

Create an intuitive shape palette system with left-side icon toolbar (like Miro) where clicking an icon reveals a popover with shapes. When user selects or drags a shape, a properties panel opens on the right showing shape categories and options.

Acceptance Criteria:

Given I am on the Design Studio canvas
When the page loads
Then I should see a vertical toolbar on the left side
And I should see icons for: Shapes & Lines, Text, Tables, Connectors, Flowchart
And each icon should have a tooltip on hover
Given I click the "Shapes & Lines" icon
When the icon is clicked
Then a popover panel should appear next to the icon
And I should see basic shapes: Rectangle, Circle, Triangle, Diamond, Arrow, Star
And I should see a "More shapes" button at the bottom
And clicking outside should close the popover
Given I select or drag a shape from the popover
When I click or drag a shape
Then the popover should close
And a properties panel should open on the right side
And I should see "Shape Properties" header with search bar
And I should see expandable sections: Basic Shapes, Flowchart, AWS, Azure, ArchiMate
And each section should show relevant shapes consolidated by category
And clicking a shape should add it to the canvas



US-E3VKUUF

Miro-style shape palette with icon toolbar and popover panels

in-progress

high

8 pts

Architecture Design & Modeling

Create an intuitive shape palette system with left-side icon toolbar (like Miro) where clicking an icon reveals a popover with shapes. When user selects or drags a shape, a properties panel opens on the right showing shape categories and options.

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And clicking a shape should add it to the canvas



US-GJOLEUT

Empty state onboarding experience for first-time users

in-progress

high

5 pts

Architecture Design & Modeling

Create an engaging empty state for users with no diagrams that guides them to create their first architecture model with clear CTAs and visual guidance.

Acceptance Criteria:

Given I am a first-time user with no diagrams When I land on the Design Studio home page Then I should see a large illustration of an architecture diagram And I should see welcome text: "Welcome to Design Studio" and "Create enterprise architecture diagrams with AI-powered guidance" And I should see 3 prominent CTA buttons arranged horizontally And buttons should be: "🚀 Start with AWS Template", "📐 Start with ArchiMate", "✨ Blank Canvas" And clicking a framework button should open template gallery filtered to that framework And clicking "Blank Canvas" should open empty canvas immediately And the empty state should replace all other sections (no recent diagrams or table shown)



US-AKCVWDP

Real-time collaboration indicators showing online presence and activity

backlog

medium

13 pts

Architecture Design & Modeling

Display live collaboration indicators showing who is viewing/editing diagrams with online status badges and activity feeds - inspired by Miros multiplayer features.

Acceptance Criteria:

Given multiple users are working on diagrams When I view a diagram card or table row Then I should see collaboration indicators: avatar stack and online count And online users should have a green dot indicator And I should see activity text: "Sarah is viewing" or "3 teammates edited this week" And for active sessions I should see: "Join Antonio in AWS Architecture" CTA button And collaborator avatars should show on hover: name and last activity timestamp And online status should update in real-time via WebSocket And clicking "Join" should open the diagram with live cursors visible



US-4VRY5C1

Template gallery modal with search and framework filtering

in-progress

medium

8 pts

Architecture Design & Modeling

Create a comprehensive template browser modal with search, framework tabs, and visual previews for discovering architecture diagram templates.

Acceptance Criteria:

Given I want to browse available templates
When I click "Templates" in the header or a framework category card
Then I should see a full-screen template gallery modal
And I should see a search bar at the top: "Search templates..."
And I should see framework tabs: All, AWS, Azure, ArchiMate, BPMN, TOGAF, GCP, Data Model
And templates should display in a 3-column grid with thumbnail previews
And hovering a template should show enlarged preview
And clicking a template should show "Use Template" dialog with name input
And search should filter templates in real-time by name or description
And clicking a framework tab should filter to only those templates



US-ZONAVI1

Progressive disclosure system adapting to user expertise level

backlog

medium

8 pts

Architecture Design & Modeling

Implement intelligent UI that starts simple for beginners and progressively reveals advanced features as users gain experience - applying UX Agents progressive disclosure patterns.

Acceptance Criteria:

Given I am at different experience levels When I have 0 diagrams (empty state) Then I should see only: Welcome message and 3 primary CTA buttons And I should NOT see: Recent diagrams section or table view When I have 1-3 diagrams (beginner) Then I should see: Recent cards and framework categories And I should see only card view (table hidden with hint to unlock) When I have 4-19 diagrams (active user) Then I should see: All sections including table view enabled by default And I should see basic filters unlocked When I have 20+ diagrams (power user) Then I should see: Advanced filters (date range, framework combinations) And I should see workspace/folder organization suggestions



US-SZS7K1W

My Diagrams table view with advanced filtering and sorting

backlog

medium

8 pts

Architecture Design & Modeling

Implement a powerful table view for diagram management with filters, sorting, and collaboration indicators - inspired by Miros board management interface.

Acceptance Criteria:

Given I have multiple diagrams to manage When I view the "My Diagrams" section Then I should see a table with columns: Name, Framework, Last Modified, Owner, Collaborators, Actions And I should see filter dropdowns: Framework (all/AWS/Azure/etc.), Owner (anyone/me/teammates) And I should see sort options: Last opened, Name (A-Z), Framework And I should see a view toggle to switch between Cards and Table views And clicking a row should open the diagram And I should see online collaboration badges (green dot for active users) And table should support infinite scroll or pagination for 50+ diagrams



US-07RYWLN

Framework category cards for intuitive template discovery

backlog

high

5 pts

Architecture Design & Modeling

Create colorful framework category cards (AWS, Azure, ArchiMate, BPMN, etc.) that help users discover templates by architecture framework - inspired by Murals role-based discovery.

Acceptance Criteria:

Given I want to start a new diagram from a template When I view the "Start with a Framework" section Then I should see 8 framework category cards And cards should display: AWS (orange), Azure (blue), ArchiMate (purple), BPMN (green), TOGAF (teal), GCP (green), Data Model (gray), Custom (gradient) And each card should show framework icon and template count And hovering a card should show lift effect and shadow And clicking a card should open the template gallery filtered to that framework And cards should be arranged in a responsive grid with equal sizing



US-IW8NJ38

Recent diagrams section with Figma-style visual cards and metadata

backlog

high

8 pts

Architecture Design & Modeling

Display recently accessed diagrams as beautiful cards with thumbnail previews, metadata, and quick actions - inspired by Figmas project gallery.

Acceptance Criteria:

Given I have recently opened diagrams When I view the Design Studio home page Then I should see a "Recently Opened Diagrams" section And each diagram should display as a card with canvas thumbnail preview And cards should show: title, framework badge, last modified time, owner And cards should show collaboration info: avatar stack and online user count And hovering a card should reveal actions: Star, Duplicate, Share, Delete And clicking a card should open the diagram in the canvas And cards should display in a responsive grid (3 columns desktop, 2 tablet, 1 mobile)



US-D1YSE0H

Design Studio landing page foundation with header and responsive layout

in-progress

high

5 pts

Architecture Design & Modeling

Create the foundational structure for the Design Studio home page before users create diagrams, combining the best UX patterns from Figma, Mural, and Miro with ARKHITEKTON-specific architecture focus.

Acceptance Criteria:

Given I navigate to the Design Studio When the page loads Then I should see a header with ARKHITEKTON branding and navigation And I should see a search bar with placeholder "Find diagrams, templates, frameworks..." And I should see action buttons: "+ New Diagram", "Templates", "Import" And I should see main content sections: Recent Diagrams, Framework Templates, My Diagrams And the layout should be responsive and work on desktop and tablet And all sections should have proper spacing and visual hierarchy



US-IFRR2W3

Develop AI-powered suggested connections feature

backlog

medium

13 pts

Architecture Design & Modeling

Leverage AI to intelligently propose relevant relationships between elements based on patterns and best practices.

Acceptance Criteria:

Given I have added elements to the diagram When I select an element and request connection suggestions Then I should see AI-recommended connections to other elements And suggestions should be based on ArchiMate/TOGAF patterns And each suggestion should include confidence score and reasoning And I should be able to accept or reject suggestions with one click And the system should learn from my acceptance/rejection patterns And suggestions should consider existing connections and context



US-E9KJJNU

Implement search and filter mechanism for diagram elements

backlog

medium

5 pts

Architecture Design & Modeling

Provide powerful search and filtering capabilities to quickly find and navigate elements in complex diagrams.

Acceptance Criteria:

Given I am viewing a complex architecture diagram When I use the search bar to find elements Then I should see matching elements highlighted on the canvas And I should see a results panel with element details And I should be able to filter by element type, layer, or custom properties And clicking a search result should zoom and center the element And I should be able to save search queries for reuse And search should include element names, descriptions, and metadata



US-A4PXXCU

Introduce real-time collaboration features for simultaneous diagram editing

backlog

medium

13 pts

Architecture Design & Modeling

Enable multiple architects to work on the same diagram simultaneously with live updates and conflict resolution.

Acceptance Criteria:

Given multiple users are viewing the same diagram When one user makes changes to elements or connections Then all other users should see the changes in real-time And I should see presence indicators showing who is viewing/editing And I should see cursor positions of other active users And conflicting edits should be merged using operational transformation And users should see notifications when others join or leave the session And chat or comments should be available for collaboration context



Rows per page:

25

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