

FORM 1A

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ADMINISTRATION OF MUSLIM LAW  
MUSLIM MARRIAGE AND DIVORCE

Rule 3

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APPLICATION FOR SOLEMNISATION AND REGISTRATION OF

Tech lead checklist

Sensible defaults for effective delivery

/thoughtworks

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## Declaration by Wali

### Key Technical Workshops

Before scheduling key technical workshops it is important to kick off a Discovery by exploring the client's business problem first. The Tech Lead acts as a partner to the Thoughtworks Product Lead / Delivery Lead to jointly drive workshops that seek to understand the client's domain, business processes and identify high-level business outcomes (and quantitative measures of success) for the Thoughtworks engagement.

#### Key Technical Workshops:

- ☐ Architecture Overview
- ☐ Non-Functional / Cross-Functional Requirements Overview
- ☐ High-level Path to Production (Value Stream Map)
- ☐ Quality Overview
- ☐ Security Overview
- ☐ Delivery Infrastructure Overview
- ☐ Platform Capability Overview
- ☐ API Overview
- ☐ Data Overview
- ☐ Tooling Overview
- ☐ Operations & Production Support Overview

Note that for modernization engagements, there is usually a need to run Discovery workshops in the context of both current state and future state business processes and technical landscape.

On the completion of Discovery workshops (and optional assessment), the Tech Lead should drive the synthesis of raw technical workshop output (such as Mural boards)

into a consumable Readout for the purpose of client playback of Thoughtworks understanding of the problem space, sharing Thoughtworks recommendations and proposing next steps to progress the engagement to Inception and Delivery. The Readout might be a Discovery deliverable (part of our Statement of Work) and / or a lightweight final presentation as part of the Discovery wrap up. We recommend blocking time for internal synthesis after each workshop is completed so the Readout deck can be developed incrementally by the team while the context is still fresh, avoiding the unnecessary workload of pulling it all together in the final week.

## Inception

The goal of an inception is to reach a shared understanding of the customer and business goals, tech vision and prioritized backlog to kick off a new workstream. The inception process allows the whole delivery team to be rapidly immersed in the context and domain. The shared knowledge which is established during the inception makes it easier to work with lower fidelity artifacts.

**Inception is about taking the body of knowledge that was identified during the discovery phase and ensuring that everyone is focussed upon the activities needed to quick-start delivery. As a technical leader, your responsibility is to guide the team by taking a lean, evolutionary architecture approach that will support a “just-enough” solution. Furthermore, it is important to align this approach with the client stakeholders. This is critical because this conversation essentially establishes the scope of MVP (first thin slice of value delivered). Remember, inception is all about creating a shared vision.**

## Key Technical Deliverables

Note that it is important to fully understand the functional scope derived from business needs and then build a technical strategy that solves the business problem. The Tech lead checklist is scoped to focus on the key technical deliverables that the team is accountable for in this context.

- ☐ Technical Onboarding to remove developer friction during delivery
  - Pre-iteration Zero tasks & tickets - git repository, access, cloud account(s), tooling, local developer environment setup, and readme(s)
  - Glossary
- ☐ Iteration Zero planning
  - Technical spikes for the first few iterations to de-risk delivery
  - Foundational technical work (user story dependencies) to enable product delivery
  - Path-to-Production planning (Value Stream Map)
- ☐ Non-Functional / Cross-Functional Requirements for the first thin-slice
- ☐ Socialize the evolving, high-level solution architecture (and supporting technical deliverables) as part of regular project showcases
- ☐ High-level Test Strategy
- ☐ [High-level Security strategy with an account level Incident Response Plan](#)
- ☐ High-level Platform Engineering Roadmap (if applicable)
- ☐ High-level Data Architecture (if applicable)

## Delivery

The Delivery phase is the primary build phase where we deliver working code in thin slices of value. Typically, features are delivered in short iterations (normally 1-2 weeks) and released frequently. Ceremonies such as standups, showcases, and retrospectives are common activities driven by the Tech Lead to encourage fast feedback loops, demonstrate continuous value to the client, and lessons learned.

## Team Rituals and Ways of Working

- ☐ Cultivate a team culture that encourages open communication, giving and receiving feedback timely and regularly and provides safety for all team members. Example activity could be regularly scheduled team wise speedback with individual follow ups encouraged.
- ☐ Encourage team bonding activities
- ☐ Pairing Matrix
- ☐ Introduce Tech Huddles during daily standup and Technical Roundtables (as needed)
- ☐ Collaborate with Project Managers, Product Managers, stakeholders and others during relevant team meetings (ie. planning, showcase preparation, etc.)
- ☐ Schedule Regular 1:1s with Thoughtworks team members and client stakeholders E.g. Product Partners, Delivery Partners, Project Managers, Engineering Managers, TLs, Architects, Engineers, CLT members
- ☐ Identify Thoughtworker performance partners for technical team members
- ☐ Align on team-level ways of working (core working hours, team rituals, social contract etc.)
- ☐ Manage team conflicts (technical and personal)
- ☐ Drive Software Engineering [sensible default practices](#) alignment
- ☐ Discourage managers from assigning user stories to developers. As an alternative, encourage team members to pick up user stories. This promotes



accountability because they won't feel like they have to be told what to do all the time.

- ☐ Drive Technical Debt management
- ☐ Act as a scout to identify and manage cross team (technical) dependencies

## Production Readiness

As your team is working on delivering features for the product, it's important, as a Tech Lead, to be aware and advocate for what it takes to deliver effectively and be production ready. Concepts such as continuous integration, code quality validations and security scanning are key to making sure the team is production ready.

- ☐ Path to production story breakdown and incremental delivery plan (technical roadmap)
- ☐ Operations / Production Support schedules, dashboards & alerts
- ☐ Create Delivery Pipeline that builds & runs automated test suite such as unit tests, component tests, contract tests
- ☐ Run security scan in delivery pipeline (SAST & SCA)
- ☐ Deploy Infrastructure (IaC) and application(s) to all environments automatically using pipeline
- ☐ Continuous integration and continuous delivery, deploying to production early and often
- ☐ Baseline and continuously measure 4 Key Metrics

## Technical Vision

- ☐ API Strategy

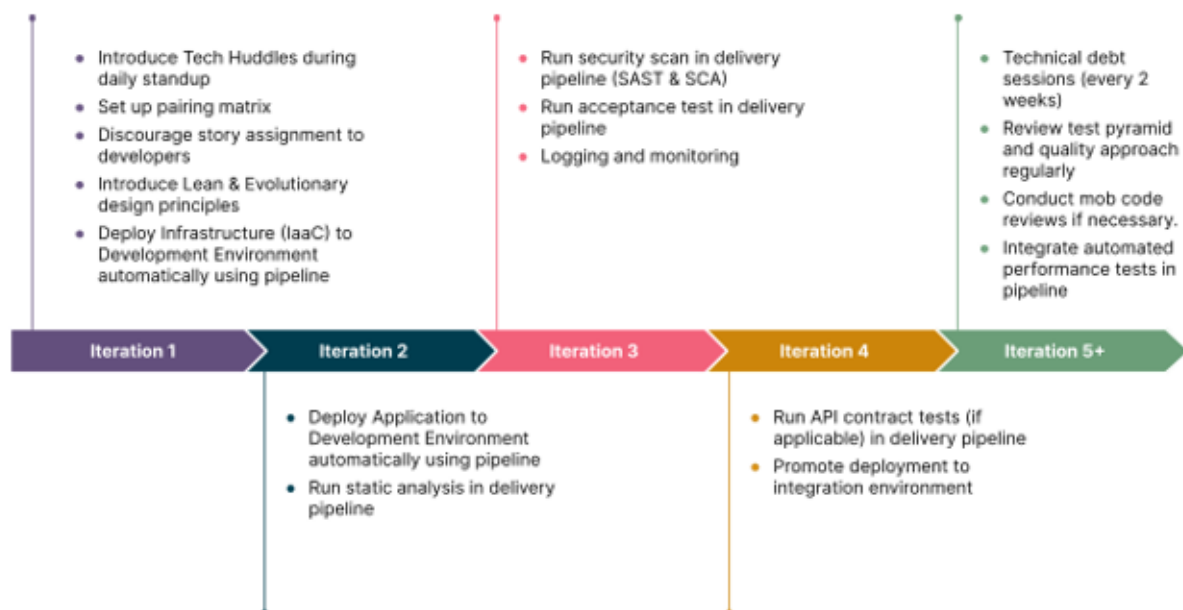


- ☐ Introduce Lean & Evolutionary Architecture design principles

## Quality Engineering

- ☐ [Test-driven Development](#)
- ☐ Run static analysis in delivery pipeline
- ☐ Test Strategy, including review of existing [test pyramid](#) and [quality approach](#)
- ☐ Discuss and align on code review practices
- ☐ [Pair programming](#)
- ☐ Consider [Mob Code](#) reviews

## Example Incremental Delivery Technical Roadmap



As a Tech Lead, one of your core objectives is to guide the team to deliver high quality working code to production early and often. The above diagram visualizes an example of an incremental technical delivery roadmap for the path to production by incorporating cross-functional requirements (CFRs) in small batches. It is always

advisable to sprinkle in CFRs such as security, observability and performance testing throughout all delivery iterations as opposed to waiting until the very end (or having dedicated “hardening” iterations). If there is a lot of foundational technical effort required to kick off product delivery, it may be worthwhile to frontload some of the path to production technical tasks into Iteration 0. Once feature work starts in iteration 1, it is recommended practice to bake technical requirements into the business feature stories so that the architectural-ilities that are required for production readiness are delivered at a steady pace.

## Helpful resources

- ☐ [The Thoughtworks Guide](#) - A collection of our practices and processes
- ☐ [Sensible Default Practices](#) - Commonly agreed approaches for the ways we work serve to improve operational efficiency, reduce friction and increase cohesion for Thoughtworks teams located in different geographic regions when working with clients.
- ☐ [Team Collaboration Anywhere](#) - A collection of resources for effectively leading hybrid teams (mix of remote and in-person teams)

## Where to get additional help

As a starting point, talk to your Account Technical Principal to discuss any gaps, concerns or necessary support needed for your client engagement.

To share feedback on the Tech lead checklist, please reach out to:

- North America Learning & Development: [na-L&D@thoughtworks.com](mailto:na-L&D@thoughtworks.com)
- North America Head of Technology: [na-hot@thoughtworks.com](mailto:na-hot@thoughtworks.com)

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Tech lead checklist - sensible defaults	Jan 26th, 2023	First Version

