**DPI: IoTa Time Series Database**

**Iteration Plan #2**

# **1. Key milestones**

| **Milestone** | **Date** | **Prerequisite** |
| --- | --- | --- |
| 1. Pick TSDB | 29/03/2023 |  |
| 1. Inception Master Test Plan | 10/04/2023 |  |
| 1. Inception Initial Project Plan | 10/04/2023 |  |
| 1. Inception Technical Competency Demonstrator | 10/04/2023 | #1 |
| 1. Inception Phase Project Status Assessment | 10/04/2023 | #2, #3 |
| 1. Iteration #1 Issues addressed | 10/04/2023 |  |

# **2. High-level objectives**

1. Completion of Inception Iteration Plan 2.
2. Completion of Initial Master Test Plan.
3. Completion of Initial Project Plan.
4. Completion of Initial Technical Competency Demonstrator.
5. Completion of Initial Phase Project Status Assessment.

# **3. Evaluation criteria**

1. Documents are clear, concise, and completed to a high standard.
2. DB is picked upon consensus of all group members.
3. Documents and tasks fulfil the marking criteria guidelines to the highest standard.

# **4. Work Item assignments**

The following Work Items will be addressed in this iteration:

| **Work Item ID** | **Name or key words of description** | **Outcome** | **State** | **Assigned to (name)** | **Estimated Hours** | **Hours worked** | **Estimate of hours remaining** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1.1 | Pick TSDB | Select the best positioned TSDB for the constraints of the stakeholder | Resolved:  We will now assess multiple TSDB’s in the elaboration phase | Team | 8 | 3 | 0 |
| 2.1 | Master Test Plan - Introduction | Outline the project objective, and the objective of the Master Test Plan. | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/master-test-plan.md#introduction) | Zak | 1 | 1.5 | 0 |
| 2.2 | Master Test Plan - Documentation | Include documents used as both a basis for the plan, and also those used for the testing plan. | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/master-test-plan.md#documentation) | Zak | 1 | 0.5 | 0 |
| 2.3 | Master Test Plan - Test Strategy | Analyse the product risks, then develop a test strategy based on the findings. | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/master-test-plan.md#test-strategy) | Zak | 3 | 2 | 0 |
| 2.4 | Master Test Plan - Test Levels | Description of the tests by level based on the strategy. | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/master-test-plan.md#test-levels) | Zak | 3 | 4 | 0 |
| 3.1 | Project Plan - Introduction | Introduce the project plan’s content | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/initial_project_plan.md#1-introduction) | Rishabh | 0.5 | 1.5 | 0 |
| 3.2 | Project Plan - Project Organisation | Complete the relevant documentation section | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/initial_project_plan.md#2-project-organization) | Rishabh | 0.5 | 0.5 | 0 |
| 3.3 | Project Plan - Project practices and measurements | Provide information about measurements and practices | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/initial_project_plan.md#3-project-practices-and-measurements) | Rishabh | 0.5 | 0.5 | 0 |
| 3.4 | Project Plan - Deployment | Indicate how the project will be deployed client side | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/initial_project_plan.md#4-deployment) | Rishabh | 0.5 | 0,5 | 0 |
| 3.5 | Project Plan - Project milestones and objectives | Complete the table outlining the plan for each iteration | [Complete](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/initial_project_plan.md#5--project-milestones-and-objectives) | Rishabh | 3 | 3 | 0 |
| 4.1 | Generate Technical Competency Plan | Document that highlights how the technical competency is to be carried out | [Direct Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/technical_competency_plan.md#technical-competency-plan) | Callum | 3 | 1 | 0 |
| 4.2 | Generate use cases to be developed | A set of use cases to be implemented to show competency | [Direct Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/technical_competency_plan.md#use-cases-to-be-implemented) | Callum | 3 | 1 | 0 |
| 4.3 | Generate tests to confirm implementation | A set of tests that will confirm the implementation is correct | [Code Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/competency-proof/test_competency.py) | Callum | 2 | 2 | 0 |
| 4.4 | Generate skeleton code | A framework to be able to implement use cases | [See \*.sh and \*.py files](https://github.com/ZakhaevK/itc303-team3-broker/tree/master/303/iteration-2/competency-proof) | Callum | 2 | 1 | 0 |
| 4.5 | Implement use cases & confirmed with tests | Implementation of the uses cases that have passed testing | -[Callum](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/competency-proof/callum-2.png)  -[Extra Proof](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/competency-proof/callum-1.png)  -[Zak](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/competency-proof/zak.png)  -[Sara](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/competency-proof/sara.png) | Callum | 3 | 4 | 0 |
| 5.1 | Status Assessment - Assessment against Objectives of the Inception Phase | Overview of project aims, plan, and required skills. | [Direct Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/inception_phase_status_assessment.md#1-assessment-against-objectives-of-the-inception-phase) | Sara | 2 | 2 | 0 |
| 5.2 | Status Assessment - Deliverables | Collection of documents and artefacts regarding the project, and any issues in creation | [Direct Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/inception_phase_status_assessment.md#2-deliverables) | Sara | 2 | 2 | 0 |
| 5.3 | Status Assessment - General Issues | Overview and status of issues, focused on non-deliverables | [Direct Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/inception_phase_status_assessment.md#3-general-issues) | Sara | 2 | 2 | 0 |
| 5.4 | Status Assessment - Risks | Collation of risks and mitigation strategies | [Direct Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/inception_phase_status_assessment.md#4-risks) | Sara | 1 | 1 | 0 |
| 5.5 | Status Assessment - Summary | Summary and Assessment of Inception Phase of Project | [Direct Link](https://github.com/ZakhaevK/itc303-team3-broker/blob/master/303/iteration-2/inception_phase_status_assessment.md#5-summary--overall-project-progress) | Sara | 2 | 1 | 0 |
| 6.1 | Iteration #1 issue [1] | Resolved issue - this was eventually flagged as a non issue | Complete | N/A | 0 | 0 | 0 |
| 6.2 | Iteration #1 issue [2] | Resolved issue - this will be covered in following assessment | Complete | N/A | 0 | 0 | 0 |
| 6.3 | Iteration #1 issue [3] | Resolved issue - we’ve now gained better insights to the project, and for now this is a non issue | Complete | N/A | 0 | 0 | 0 |

# 

# **5. Issues**

| **Issue** | **Status** | **Notes** |
| --- | --- | --- |
| [1] Risk list granularity needs improvement in next iteration of the document | Complete | Risk list only contains broad strokes of project risks due to lack of overall detail from the system, the next iteration should address individual risks at a finer detail |
| [2] Risk list contingency plans are vague | Complete | Next iteration of risk list needs more fine tuned contingency plans, currently we lack enough information to choose a best contingency plan |
| [3] “Requirement Model - System Interfaces” section may need to expanded based on scope | Complete | The section has subsections related to UI elements which at this point in time, do not relate to this project. If the scope widens this can be revisited. |

# **6. Assessment**

Iteration # 2, overall it seems that assessment items have been completed and are on track to be submitted by the due date.

We saw improvement over iteration #1 in regards to assigning/completing work and active communication through discord.

There is still some room for communication improvement, as well as completing required items prior to assessment date as this is not ideal.

***Internal Assessment***

| Assessment target | Improve Task Assignment / Trello Usage |
| --- | --- |
| Assessment date | Iteration 2 |
| Participants | ALL |
| Results | Overall great improvement in trello usage, helped overall with |

## **Assessment against objectives**

## The iteration tasks completed met the goals specified for the incoming assignment.

## **Work Items: Planned compared to actually completed**

POSTPONED: Picking TSDB, this occurred after discussion with Jim and seemed supportive of Ben at DPI. We’ve expanded this section to last the elaboration phase and we will instead assess to a high detail multiple TSDBs

* **Assessment against Evaluation Criteria Test results**

Documentation has been completed to a high standard, agreed upon by the team. All documents have been reviewed by the team\*

\*final changes may not be viewed by all members before submission date.

## **Other concerns and deviations**

TBC: Project may not currently have enough use cases, or complexity to keep four members busy and engaged for project duration.