



# PERFORMANCE TEST PLAN

*Template and  
Guideline for  
Performance Test  
Project*



# CONTENTS

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- 1. Document Control**
- 2. Introduction**
- 3. Testing Scope**
- 4. Testing Controls**
- 5. Pre-Requirement**
- 6. Testing Methodology**
- 7. Testing Requirements**
- 8. Testing Tools**

- 9. Testing Environment**
- 10. Testing Evaluation Criteria**
- 11. Roles and Responsibilities**
- 12. Timeline**
- 13. Proposed Deployment Architecture**
- 14. Appendices**
- 15. Reporting**

# DOCUMENT CONTROL

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1. Document Approval
  - a) Prepared by, Reviewed by, Verified by, Approved by
  - b) From both parties (PT Team, Project Team)
2. Distribution list
3. Revision History
4. Abbreviations

# INTRODUCTION

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## 1. Purpose

Purpose of the documents

## 2. Objective

Objective of performance test

## 3. Project Description

Briefly describe about the system/project

# OBJECTIVE

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**Explain the objective of performance test**



To measure the performance of SPLaSK project under predefined transaction volumes from end-user perspective and test the system for responsiveness and reliability.

# PROJECT DESCRIPTION

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## Briefly describe about the project

*Sistem Pemantauan Laman Web dan Perkhidmatan Dalam Talian Kerajaan (SPLaSK) merupakan satu platform pemantauan ke atas pematuhan kriteria-kriteria bagi laman web dan perkhidmatan dalam talian Kerajaan.*

### *Objektif Projek*

- Menyediakan sistem aplikasi bagi kemudahan pemantauan laman web dan perkhidmatan dalam talian Kerajaan.*
- Menyediakan kemudahan mengukur tahap pematuhan kriteria berdasarkan tujuh(7) dimensi yang telah ditetapkan.*
- Menyediakan kemudahan mengukur tahap kepuasan pengguna perkhidmatan dalam talian kerajaan.*
- Menyediakan kemudahan secara elektronik untuk pengemaskinian maklumat profil laman web dan perkhidmatan dalam talian Kerajaan.*

# TESTING SCOPE

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1. **Concurrent User and Response Time**
  - a) Number of concurrent user
  - b) Response time
2. **Load Test**
  - a) How many cycle
  - b) How many iteration
3. **Stress Test (Optional)**
4. **Monitoring**

Resource utilization monitoring
5. **Business Transaction**

What business transaction ?

# TESTING CONTROLS

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## 1. Entrance Criteria

- Pass smoke test

## 2. Exit Criteria

- Not more than 5% errors
- Successful run test

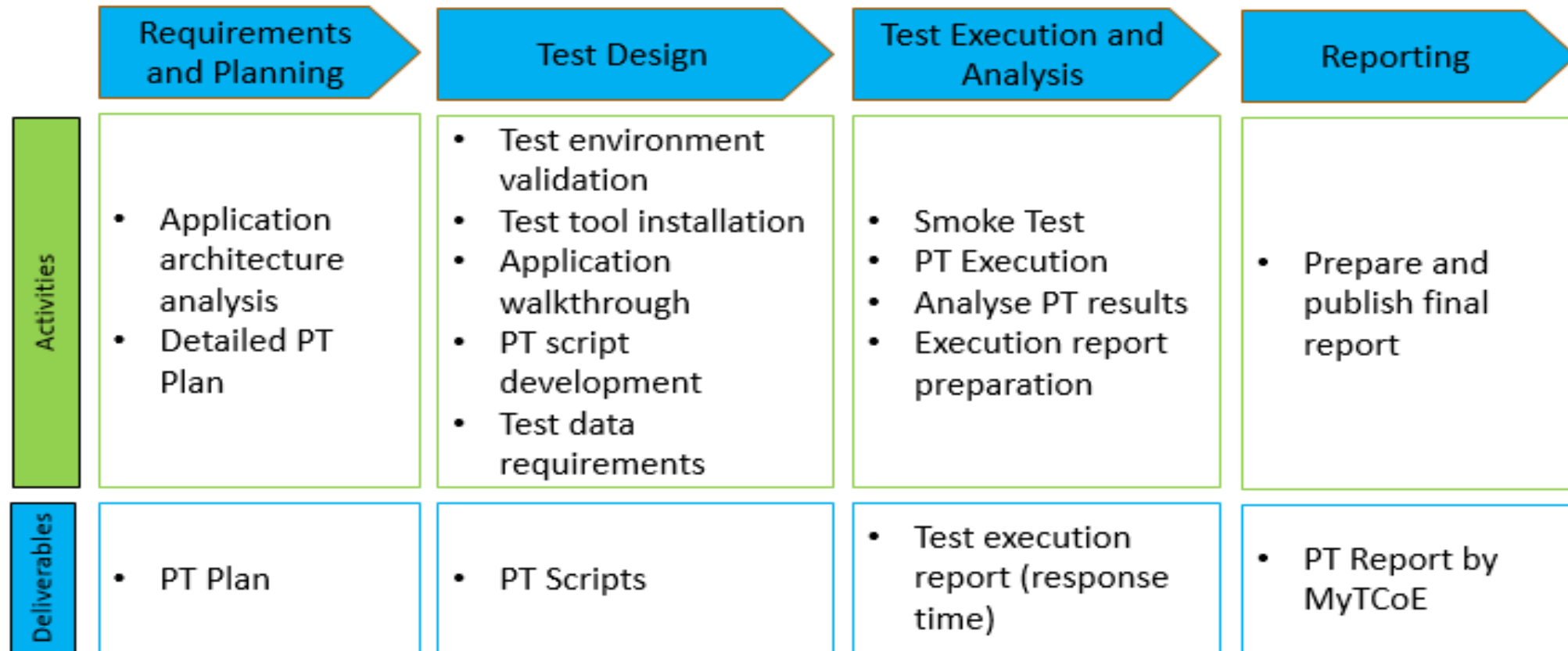


# PRE-REQUISITE

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1. Completion of functional testing (code freeze)
2. Completion of security and penetration test
3. Login credential for xxx user
4. Production environment readiness
5. Test data readiness
6. Database backup and restore
7. Access to system for scripting purposes

# TESTING METHODOLOGY



# TESTING REQUIREMENTS

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1. Test Data
  - Login data/ User ID
  - Transactional data
2. Hardware Requirements
3. Firewall Requirements
4. IP Address

# TESTING TOOLS

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1. What tools will be used
2. Performance monitoring tools (if any)
3. Hardware

# TESTING ENVIRONMENT

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Available Test Environment Setup

Required Test Environment Setup

1. Production Environment
2. Staging Environment
3. Testing Environment

# TESTING EVALUATION CRITERIA

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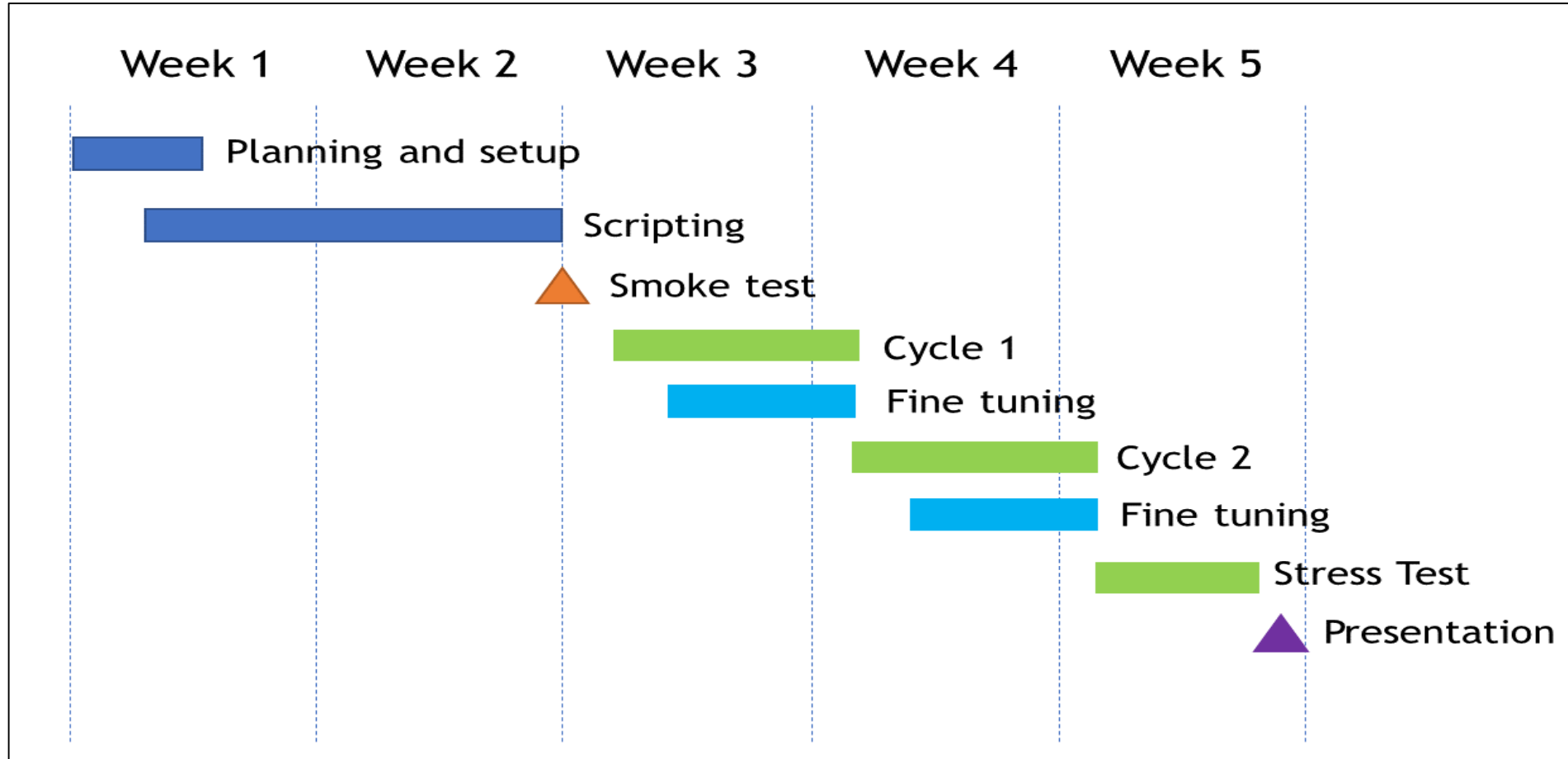
1. Transaction Response Time
2. Failure Rate
3. Systems Performances
4. Errors and Exceptions

# ROLES AND RESPONSIBILITIES

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1. Performance Testing Team
  - Scripting, execute, monitoring, reporting
2. Project Team
  - Identify business transaction
  - Prepare the environment
  - Resources monitoring

# PROPOSED PROJECT TIMELINE







# TESTING ACTIVITIES

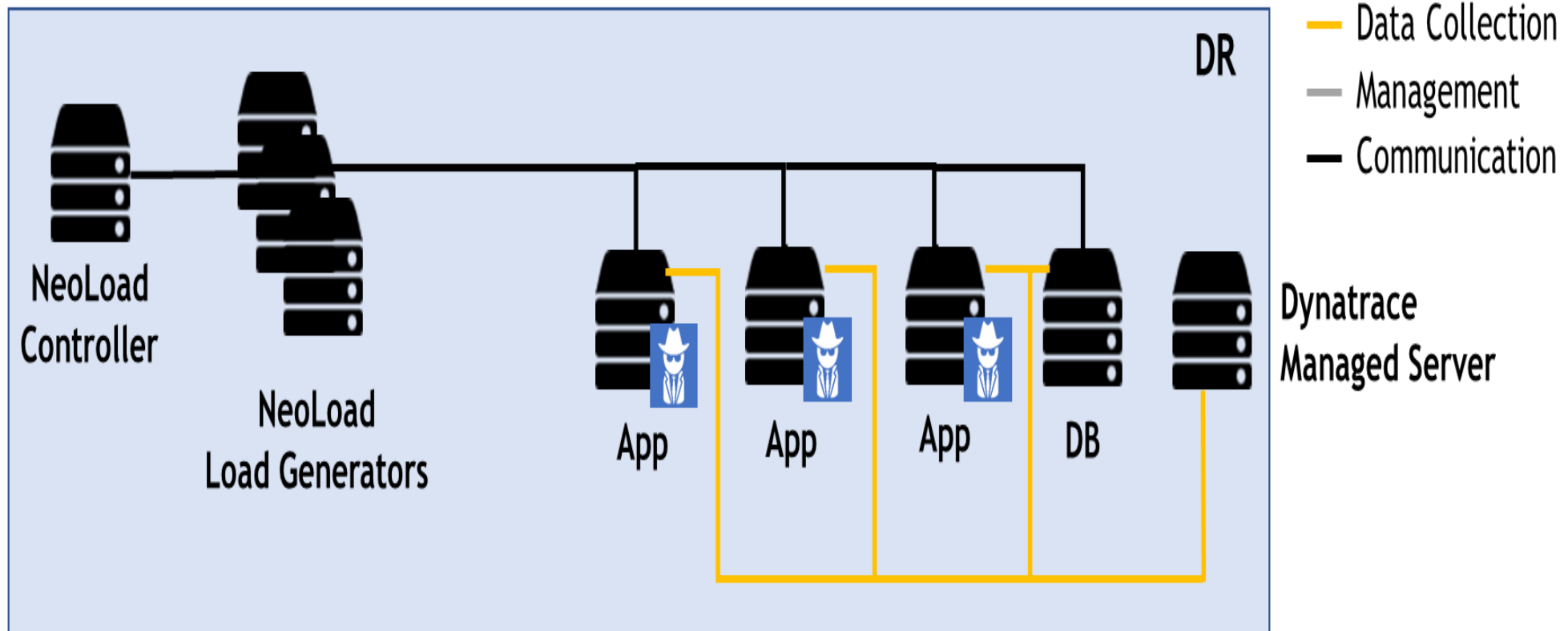
No.	Activity	Description	Duration (Day)
1.	Identify Performance Requirements	Identify the performance requirements with SPLASK team	0.5
2.	Review Test Scenarios	Review, prioritize and finalize test scenarios for execution with SPLASK team	0.5
3.	Verify Pre-requisite Items	Verify the availability of all pre-requisite items	0.5
4.	Prepare Test Plan	Prepare detailed performance test plan (including detailed scenarios, workloads, timeline, environment info and etc.)	2
5.	Prepare Test Script	Prepare test script based on test scenarios	2
6.	Conduct Smoke Test	Verified that system is fit for testing before actual performance testing starts	0.5

# TESTING ACTIVITIES



No.	Activity	Description	Duration (Day)
7.	Execute Test	Run and monitor tests. Validate test data and results collection.	1
8.	Capture Defects	Defects, if any, are capture in Test Management Tool	0.5
9.	Analyze Result and Generate Report	Consolidate and share results	3
10.	Submission of Full Report	Full report	3

# PROPOSED DEPLOYMENT ARCHITECTURE



# APPENDICES

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1. System/project Architecture
2. Server/Hardware Listing

# REPORTING

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## A) Interim reports :

- Response time of each transaction
- Transactional error rate
- Hardware performance and utilization

## B) Final reports



Successful Performance Testing  
Engagement

# THANK YOU

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