Continuing Education Program

Centre for Computing and Information Technology

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**Project 2 Quarter 8**

**RUJAK Website**

**Created By:**

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**Class:**

4SC4

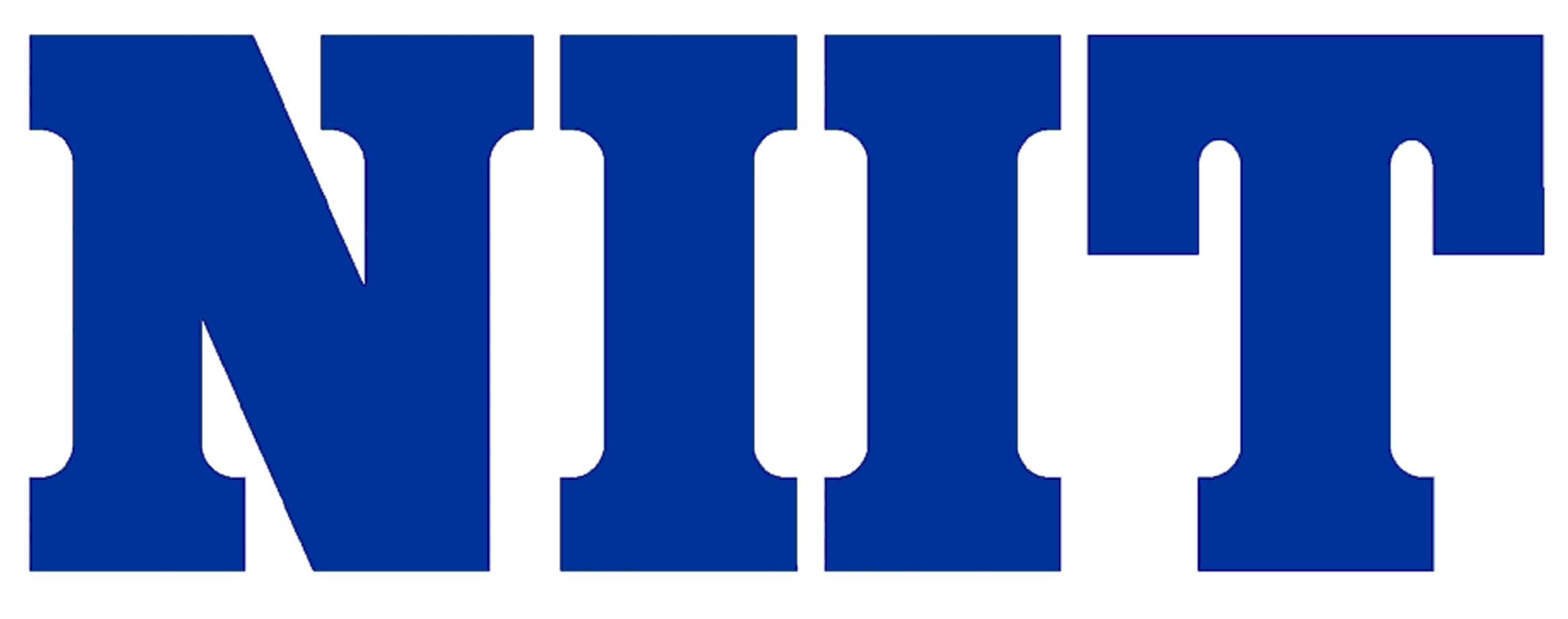
**Faculty:**

Mr. Riza Muhammad Nurman, S. Kom

Prepared by:

Name:

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**PROJECT ON**

RUJAK Website

**RUJAK Application using WCF**

(Project Title)

Batch Code : 4SC4

Start Date : May 16th, 2015

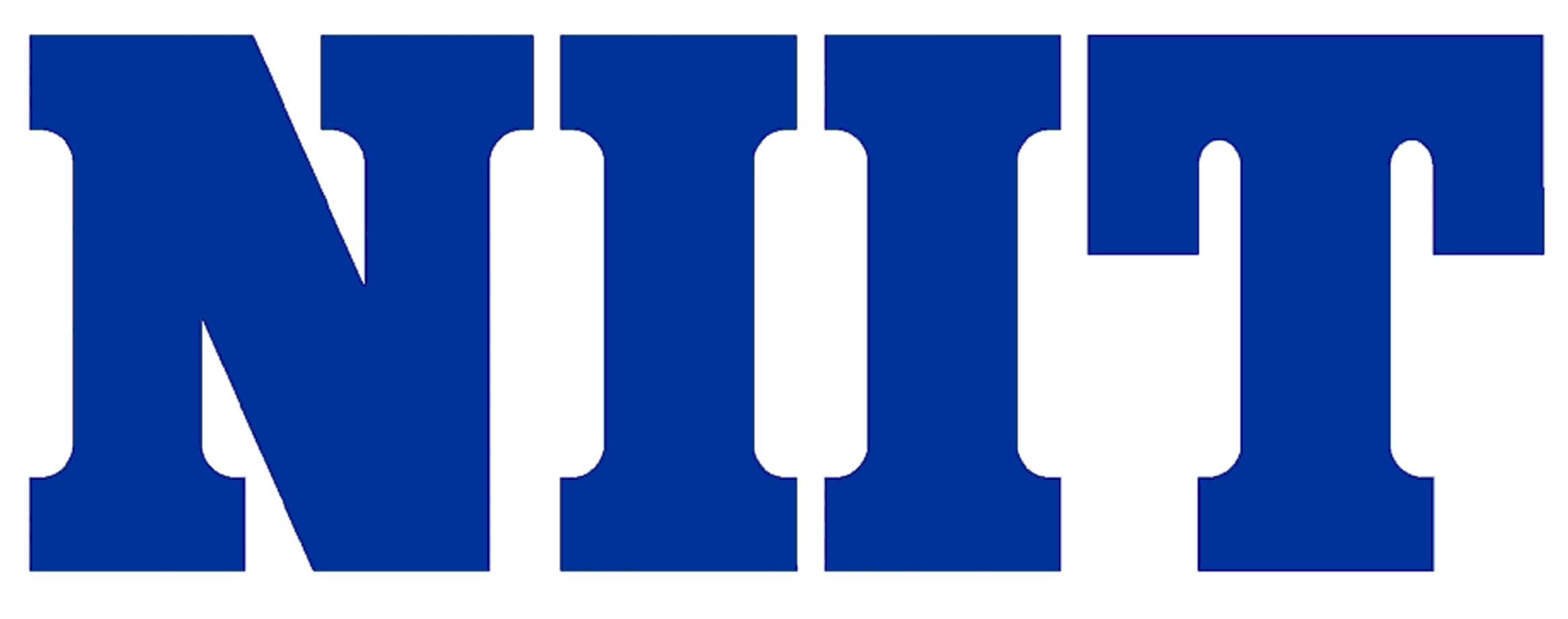
End Date : June 9th, 2015

Name of Coordinator : Riza Muhammad Nurman. S. Kom

Name of the Testers :

1. Falah Sakti Adijaya(1310010392)
2. Fityan Aula Juyuspan(1310010393)

Date of Submission : July 26th, 2015



**CERTIFICATE**

This is to certify that this report titled *RUJAK WEBSITE* embodies the original work done by *FALAH SAKTI ADIJAYA and FITYAN AULA JUYUSPAN*, in partial fulfillment of their course requirement at NIIT.

Coordinator:

*Riza Muhammad Nurman, S. Kom*

**INTRODUCTION**

RUJAK WEBSITE is a website application using ASP. NET and WCF for customer of Rujak which provide a service and function to give an information about Rujak and managing data of the customer, employee and the order.

In completing this project, the developer have benefited a lot from the feedback and suggestions that given to us by Riza Muhammad Nurman, S. Kom and others.

**IDEAL TEST ENVIRONMENT FOR RUJAK WEBSITE**

Describe the ideal software and hardware requirements to test the RUJAK Website.

The details of the test environment is attached.

**TESTING TECHNIQUES IMPLEMENTED IN RUJAK WEBSITE**

Describe different types of testing techniques that can be implemented to test the RUJAK Website. The suitable testing techniques can be selected from the following techniques to test the website application:

* Structural Testing Technique(White box):
* Load/Stress Testing (demands resource in quantity, frequency, or volume)
* Recovery Testing (recover from failure)
* Operation Testing (tested and integrated with operating environment)
* Compliance Testing (accordance with IT standards, procedures, and guidelines)
* Security Testing (identifies security defects)
* Functional Testing Technique(Black box):
* Requirements Testing (performs correctly over a continuous period of time)
* Regression Testing (a change in one segment, affect the other segment)
* Error-handling Testing (anticipate what can go wrong with the system)
* Intersystem Testing (ensure interconnection between apps function correctly)

The tables of the testing techniques are attached.

**TYPE OF TESTING TOOLS FOR RUJAK WEBSITE**

Efficient testing of an application necessities the use of some testing tools. These tools perform various activities and are applicable in all the phases of the system development life cycle. Describe the testing tools applicable for RUJAK Website that can be selected from the Unit testing tools and Manual testing tools.

Unit testing tools is a test which is using a Test project in visual studio. The idea of unit testing tools is to compare between the expected output and the actual output from the software. If the both output is not match, then it will be count as a defect.

**RISKS TO RUJAK WEBSITE DURING TESTING**

Identify and describe the risks from the following types of risks that may affect the RUJAK Website:

* Software Risks (associated when application is being developped)
* Business Risks (market, techa change, product competition, management, budget)
* Premature Release Risks (release the software before it is complete)
* Testing Risks (affect the process of testing a software)

The tables of the risks are attached

**TYPICAL COMPONENTS OF A TEST PLAN FOR RUJAK WEBSITE**

A typical test plan should describe the purpose of the test plan aling with the intended audience for the test plan. The test plan should describe the following components based on the RUJAK Website:

* Scope of test (specifies the features)
* Test objectives (goals of testing)
* List of assumptions (assumptions for creating a test plan)
* Result of risk analysis (documents the risks identified)
* Resource allocation (details of the resource requirements for the testing activity)
* Test schedule (information on the timelines for the test activities)
* Test design (describes various types of test to be conducted)
* Test environment (describes the environment requirements for various types of testing)
* Testing tools and techniques (which is required for testing)
* Test completion criteria (specifies the conditions which must be evaluated after testing is completed)

The tables of the typical component of a test plan are attached.

**TEST METRICS RELEVANT TO RUJAK WEBSITES**

Describe the need for designing test metrics and the types of test metrics that should be grateful to test the RUJAK Website.

The tables of the test metrics are attached.