Unit Test (UT)

DEVELOPMENT TCAP SYSTEM IMPROVEMENT
Information System & Technology Division
PT Toyota-Astra Motor

Version 1.0

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Sign Off				
TAM Business User	Position	Name	Date	Signature
TAM - ITSD	Project Manager	Melin Indri Kusuma	13/11/2024	CHI.
	Business Analyst	Rivaldo Likumarico	24/10/2024	AL P
Vendor - Visionet	Project Manager	Irfan Nurjiantoro	24/10/2024	A W
	Dept Head QA	Fandy Christiawan	24/10/2024	Dan

DOCUMENT VERSION HISTORY

Histori Perubahan				
Date Modified	Modified By	Version No.	Type of Change	Brief Description of Change
23/10/2024	Rivaldo	1.0	Initial	

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Latar Belakang

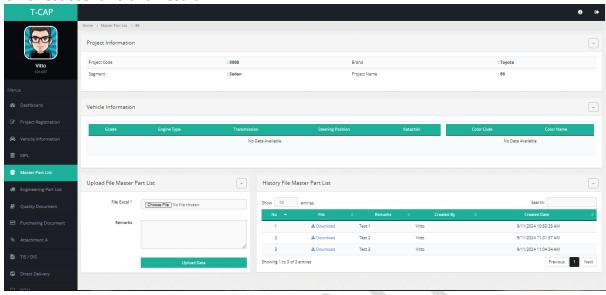
Saat ini, administrasi pengadaan asesoris kendaraan telah terbantu dengan adanya Aplikasi Conversion & Acessories Administration System (T-CAP), dimana seluruh dokumen asesoris kendaraan yang di butuhkan tersebut telah tersimpan pada database, sehingga memudahkan user untuk melakukan pembuatan dokumen tersebut, mulai dari awal pengadaan hingga asesoris tersebut selesai dan terpasang pada kendaraan. Selain itu, Aplikasi juga mampu melakukan pencarian dari dokumen yang diinginkan. Namun ternyata, ada beberapa yang kurang efisien saat input data, dan ada yang belum sesuai dengan yang di harapkan. Sehingga berdampak pada beberapa permasalahan antara lain sebagai berikut:

- 1. Proses Penginputan terlalu banyak, sehingga user membutuhkan waktu untuk menginput data.
- 2. Data Attachment A tidak bisa di edit, sehingga user kesulitan ketika membutuhkan perubahan data pada Attachment A.
- 3. Penambahan menu Direct Delivery, untuk membantu user dalam mendownload file yang dibutuhkan.

Melihat dampak dari Applikasi Conversion & Acessories Administration System (T-CAP) saat ini, maka sangat di perlukan perubahan dan penyesuaian di beberapa modul sehingga permasalahan dari beberapa point tersebut di atas bisa teratasi dengan baik.

Unit Test

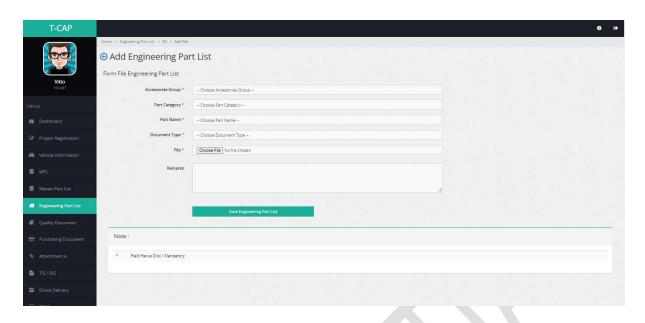
Unit Test Scenario and Result



Tabel 1 Master Part List Test - Scenario 1

Class	MasterPartList.Tests	
Method	Public void Create_WhenDataIsValid_ShouldSaveToDatabaseAndRedirect()	
Method Desc	Master Part List: Should save to database and redirect	
Expected Result	Assert.IsNotNull(result);	
	Assert.AreEqual("Details", result.RouteValues["action"]);	
	Assert.AreEqual("test-id", result.RouteValues["id"]);	
Actual Result	MasterPartList.Tests.	
	Create_WhenDataIsValid_ShouldSaveToDatabaseAndRedirect: return success	
	and redirect	
Status	Passed	
Tested By	NUnit automated testing framework	
Date/Time	21/10/2024 11:10:21	

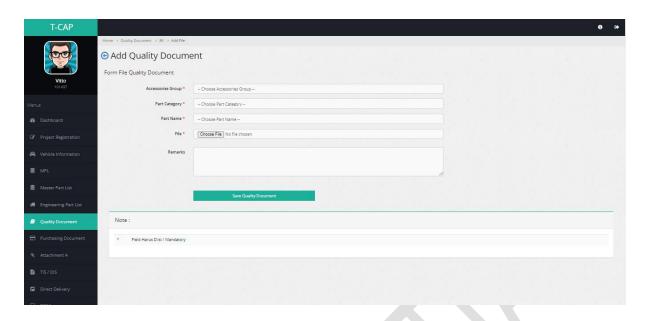




Tabel 2 Engineering Part List Test – Scenario 1

Class	EngineeringPartList.Tests	
Method	public void Create_WhenValidFileUploaded_ShouldSaveToDatabase()	
Method Desc	Engineering Part List: Should save to database	
Expected Result	Assert.IsNotNull(result);	
	Assert.AreEqual("Details", result.RouteValues["action"]);	
	Assert.AreEqual("1", result.RouteValues["id"]);	
Actual Result	EngineeringPartList .Tests.	
	Create_WhenValidFileUploaded_ShouldSaveToDatabase : return success to	
	insert database	
Status	Passed	
Tested By	NUnit automated testing framework	
Date/Time	21/10/2024 11:10:21	

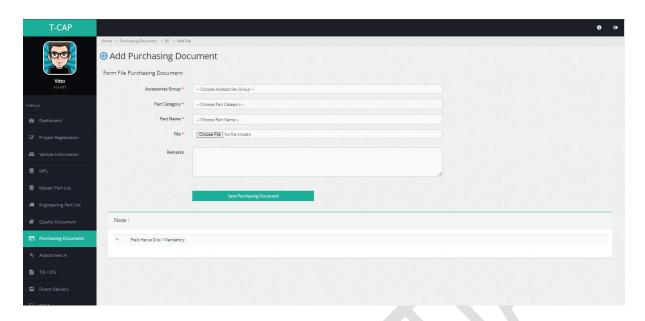




Tabel 3 Quality Document Test – Scenario 1

Class	QualityDocument.Tests	
Method	public void Index_ShouldReturnView_WhenSessionIsValid()	
Method Desc	Quality Document : Should save to database	
Expected Result	Assert.IsNotNull(result);	
	Assert.AreEqual("Details", result.RouteValues["action"]);	
	Assert.AreEqual("1", result.RouteValues["id"]);	
Actual Result	QualityDocument .Tests.	
	Create_WhenValidFileUploaded_ShouldSaveToDatabase : return success to	
	insert database	
Status	Passed	
Tested By	NUnit automated testing framework	
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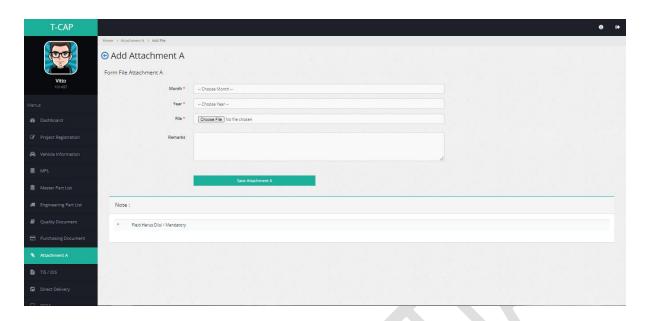




Tabel 4 Purchasing Document Test – Scenario 1

Class	PurchasingDocument.Tests
Method	public void Create_WhenValidFileUploaded_ShouldSaveToDatabase()
Method Desc	Purchasing Document : Should save to database
Expected Result	Assert.IsNotNull(result);
	Assert.AreEqual("Details", result.RouteValues["action"]);
	Assert.AreEqual("1", result.RouteValues["id"]);
Actual Result	PurchasingDocument.Tests.
	Create_WhenValidFileUploaded_ShouldSaveToDatabase: return success to
	insert database
Status	Passed
Tested By	NUnit automated testing framework
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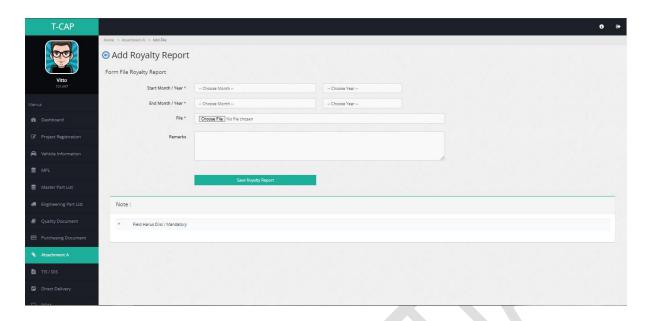


Tabel 5 Attachment A Test – Scenario 1

Class	AttachmentADocument.Tests
Method	<pre>public void Create_ValidFile_SavesAndRedirects()</pre>
Method Desc	Attachment A Document : Should valid file, save and redirect
Expected Result	Assert.IsNotNull(result);
	Assert.AreEqual("Index", result.RouteValues["action"]);
Actual Result	AttachmentADocument.Tests.Create_ValidFile_SavesAndRedirects: return
	valid file, save and redirect
Status	Passed
Tested By	NUnit automated testing framework
Date/Time	21/10/2024 11:10:21



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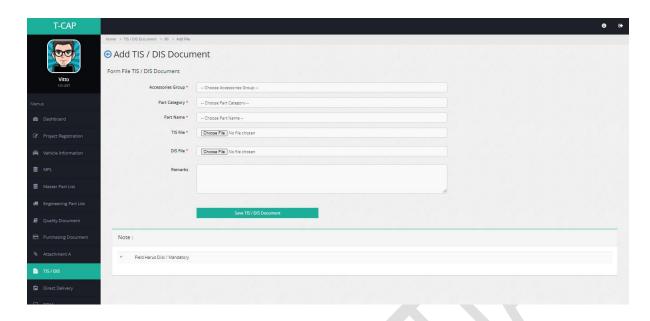


Tabel 6 Attachment A Document – Scenario 2

Class	AttachmentADocument.Tests
Method	public void CreateRoyalty_ValidFile_SavesAndRedirects()
Method Desc	Royalty Report : Should valid file, save and redirect
Expected Result	Assert.IsNotNull(result);
	Assert.AreEqual("Index", result.RouteValues["action"]);
Actual Result	AttachmentADocument.Tests.CreateRoyalty_ValidFile_SavesAndRedirects:
	return valid file, save and redirect
Status	Passed
Tested By	NUnit automated testing framework
Date/Time	21/10/2024 11:10:21



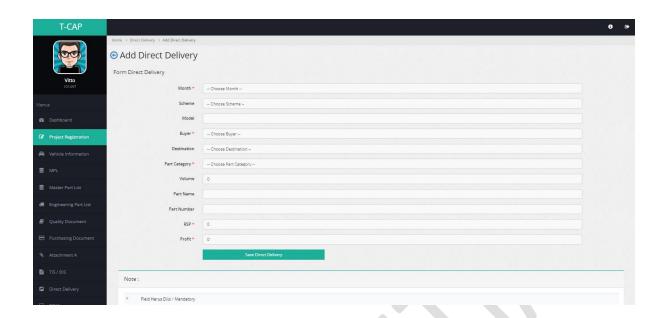
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Tabel 7 TIS / DIS Test - Scenario 1

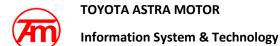
Class	TisDisDocument.Tests
Method	public void Create_ValidFiles_SavesAndRedirects()
Method Desc	TIS DIS : Should valid files, saves and redirect
Expected Result	Assert.IsNotNull(result);
	Assert.Are Equal ("Details", result.Route Values ["action"]);
	Assert.AreEqual(id, result.RouteValues["id"]);
Actual Result	TisDisDocument.Tests.Create_ValidFiles_SavesAndRedirects: return valid file,
	saves and redirect
Status	Passed
Tested By	NUnit automated testing framework
Date/Time	21/10/2024 11:10:21

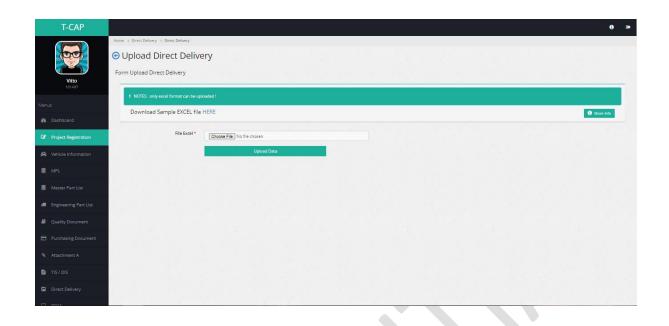




Tabel 8 Direct Delivery Test – Scenario 1

Class	DirectDeliveryController.Tests
Method	public void Create_ValidRspAndProfitValues_RedirectsToIndex()
Method Desc	Direct Delivery : Should valid values, redirect to index
Expected Result	Assert.IsNotNull(result);
	Assert.AreEqual("Index", result.RouteValues["action"]);
Actual Result	DirectDeliveryController.Tests.
	Create_ValidRspAndProfitValues_RedirectsToIndex: return valid values,
	redirect to index
Status	Passed
Tested By	NUnit automated testing framework
Date/Time	21/10/2024 11:10:21



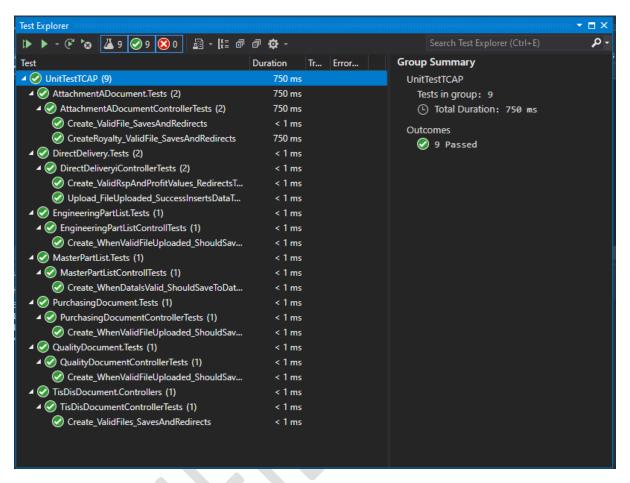


Tabel 9 Direct Delivery Test – Scenario 2

Class	DirectDeliveryController.Tests
Method	<pre>public void Upload_FileUploaded_SuccessInsertsDataToDatabase()</pre>
Method Desc	Direct Delivery : Should return success insert data to database
Expected Result	Assert.IsNotNull(result);
	Assert.AreEqual("Index", result.RouteValues["action"]);
	Assert.AreEqual("Success Insert Database, Success : 1, Failed : 0",
	controller.TempData["msg"]);
Actual Result	DirectDeliveryController.Tests.
	Upload_FileUploaded_SuccessInsertsDataToDatabase: Return success insert
	data to database
Status	Passed
Tested By	NUnit automated testing framework
Date/Time	21/10/2024 11:10:21

Unit Test Evidence

Evidence Unit Test - Scan QR Code C:



- CI/CD

\c9NTwtyH6\0\vdi\tcap\TCAD2.Tests\TCAD2.Tests.csproj] 44 C:\Gitlab-Runner\builds\c9NTwtyH6\0\vdi\tcap\TCAD2.Tests\AttachmentADocumentControllerTest.cs(12,8): warni ng CS0219: The variable 'actualValue' is assigned but its value is never used [C:\Gitlab-Runner\builds\c9N TwtyH6\0\vdi\tcap\TCAD2.Tests\TCAD2.Tests.csproj] 45 C:\Gitlab-Runner\builds\c9NTwtyH6\0\vdi\tcap\TCAD2.Tests\RoyaltyReportControllerTest.cs(11,17): warning CS 0219: The variable 'expectedValue' is assigned but its value is never used [C:\Gitlab-Runner\builds\c9NTwt ${\tt yH6\0} {\tt vdi\tcap\TCAD2.Tests\TCAD2.Tests.csproj]}$ C:\Gitlab-Runner\builds\c9NTwtyH6\8\vdi\tcap\TCAD2.Tests\RoyaltyReportControllerTest.cs(12,8): warning CS8 219: The variable 'actualValue' is assigned but its value is never used [C:\Gitlab-Runner\builds\c9NTwtyH6 \0\vdi\tcap\TCAD2.Tests\TCAD2.Tests.csproj] 4 Warning(s) 0 Error(s) 49 Time Elapsed 00:00:13.21 \$ dotnet test .\TCAD2.Tests\TCAD2.Tests.csproj Determining projects to restore... All projects are up-to-date for restore. TCAD2.Tests -> C:\Gitlab-Runner\builds\c9NTwtyH6\0\vdi\tcap\TCAD2.Tests\bin\Debug\net6.0\TCAD2.Tests.dll Test run for C:\Gitlab-Runner\builds\c9NTwtyH6\0\vdi\tcap\TCAD2.Tests\bin\Debug\net6.0\TCAD2.Tests.dll (.N ETCoreApp, Version=v6.0) 55 Microsoft (R) Test Execution Command Line Tool Version 17.3.3 (x64) Copyright (c) Microsoft Corporation. All rights reserved. 57 Starting test execution, please wait... 58 A total of 1 test files matched the specified pattern. Passed! - Failed: 0, Passed: 9, Skipped: θ, Total: 9, Duration: 29 ms - TCAD2.Tests.dll (net6.0) 00:03



Lampiran

