
CITITO

(Colombo Initiated Tasked In Tasked Out)

TECHNICAL REPORT

NOVEMBER 1, 2018
INNODATA LANKA (PVT) LTD.

Innodata Lanka (pvt) Ltd.

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Beta_v1.0.0.36	Asela Walawe Durage	Pemalal Aravinda	4/24/2018	Ajith Perera	
Beta_v1.0.0.37	Asela Walawe Durage	Pemalal Aravinda	5/16/2018	Ajith Perera	
Beta_v1.0.0.38	Asela Walawe Durage	Pemalal Aravinda	5/30/2018	Ajith Perera	
Beta_v1.0.0.39	Asela Walawe Durage	Pemalal Aravinda	5/31/2018	Ajith Perera	
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v1.0.0.1	Asela Walawe Durage	Pemalal Aravinda	11/6/2018	Ajith Perera	

Table of Contents

1. Introduction	1
1.1. Platform Requirements	1
1.2. Development Requirements	1
2. CITITO Structure.....	3
2.1. Modules.....	3
2.2. Functional Requirements	3
2.3. MVC Structure	5
2.3.1. Business Controls.....	5
2.3.2. Business Objects	5
2.3.3. Business Services	6
2.4. Database structure	6
3. Design of Solution	7
3.1. Use Case Diagrams	7
3.1.1. High-end Admin Use Case	7
3.1.2. High-end PIC Use Case.....	8
3.1.3. High-end Manager Use Case	8
3.1.4. High-end DCD Use Case	9
3.1.5. High-end Employee Use Case	9
3.2 User Interface	10
3.2.1. Splash Screen.....	10
3.2.2. User Login	11
3.2.2.1. Admin Panel.....	12
3.2.2.2. PIC Panel	13
3.2.2.3. Manager Panel	13
3.2.2.4. DCD Panel.....	14
3.2.2.5. Employee Panel	14
3.3. Admin Panel	15
3.3.1. PIC Registration	15
3.3.2. Change PIC's Project	17
3.3.3. PTR Cost Resource	18

3.4. PIC Panel.....	18
3.4.1. Registration Panel [Project Process/Task Codes]	19
3.4.1.1. Project.....	20
3.4.1.2. Task Codes	20
3.4.2. User Registration Panel [Manager/DCD/User].....	22
3.4.2.1. User	22
3.4.2.2. Manager/DCD	23
3.4.3. Task Approval	23
3.4.3.1. Task In/Out Approval.....	24
3.4.3.2. Pending Records	25
3.4.3.3. Modified Approval	25
3.4.3.4. IDLE Approval.....	26
3.4.4. Reports.....	27
3.4.4.1. Dashboard.....	27
3.4.4.2. Team Details	28
3.4.4.3. Task & Quota.....	28
3.4.4.4. Workload.....	30
3.4.4.5. X3 Project.....	31
3.4.4.6. X3 Team	32
3.4.4.7. X3 User	32
3.4.4.8. X3 User (ProjectWise)	33
3.4.4.9. X3 Tasks.....	33
3.4.4.10. IDLE & Wastage.....	34
3.4.4.11. PTR	35
3.4.4.12. Cost	35
3.5. Immediate Manager Panel.....	36
3.5.1. User Registration	36
3.5.2. Task Approval	38
3.5.2.1. Task In/Out Approval	39
3.5.2.2. Pending Records	40
3.5.2.3. Modified Records.....	40
3.5.2.4. IDLE Approval.....	41
3.5.3. Reports.....	41

3.5.3.1. Dashboard.....	42
3.5.3.2. Team Details	42
3.5.3.3. Workload.....	43
3.5.3.4. X3 Project.....	43
3.5.3.5. X3 Team	44
3.5.3.6. X3 User.....	44
3.5.3.7. X3 User (ProjectWise).....	45
3.5.3.8. X3 Tasks.....	45
3.5.3.9. IDLE & Wastage.....	47
3.6. DCD Panel.....	48
3.7. Employee Panel (Task In/Out).....	50
3.7.1. Task In/Out	51
3.7.2. IDLE	51
3.7.3. X3 performance	52
4. Implementation	53
4.1. Code Features	53
4.1.1. Insert, Update, Delete Data.....	53
4.1.2. Validation Data	55
4.1.3. SQL Queries, SPs	56
5. Messages.....	57
5.1. Information	57
5.2. Success	57
5.3. Error.....	58
5.4. Warning	58
6. Conclusion.....	59
6.1. Introduction.....	59
6.2. Future Enhancement.....	59

1. Introduction

CITITO (Colombo Initiated Tasked In Tasked Out) is a software solution that the user productivity monitor according to given Quota schedule. The word CITITO is pronounced as “**siti.to**”.

The Solution is mainly developed on C# .NET with SQL Server data structure.

1.1. Platform Requirements

- Windows 7 or Higher OS
- 4.6.0 .NET Framework
- Disk space (minimum)4.5 GB(32-bit) /4.5 GB(64-bit)
- 512MB RAM
- 1 GHz Processor

1.2. Development Requirements

- Visual Studio 2017 or later
- SQL Server Management Studio 2017 or later
- Reference Libraries
 - ClosedXML.0.93.1
 - DocumentFormat.OpenXml.2.8.1
 - ExcelNumberFormat.1.0.3
 - FastMember.Signed.1.3.0
 - iTextSharp.5.5.13
 - LiveCharts.0.9.7
 - LiveCharts.WinForms.0.9.7.1
 - LiveCharts.Wpf.0.9.7
 - MetroModernUI.1.4.0.0
 - Microsoft.NETCore.Platforms.2.1.0
 - Microsoft.Win32.Primitives.4.3.0
 - NETStandard.Library.2.0.3
 - System.AppContext.4.3.0
 - System.Collections.4.3.0
 - System.Collections.Concurrent.4.3.0
 - System.Console.4.3.1
 - System.Diagnostics.Debug.4.3.0
 - System.Diagnostics.DiagnosticSource.4.5.0
 - System.Diagnostics.Tools.4.3.0
 - System.Diagnostics.Tracing.4.3.0
 - System.Globalization.4.3.0
 - System.Globalization.Calendars.4.3.0

- System.IO.4.3.0
- System.IO.Compression.4.3.0
- System.IO.Compression.ZipFile.4.3.0
- System.IO.FileSystem.4.3.0
- System.IO.FileSystem.Primitives.4.3.0
- System.IO.Packaging.4.5.0
- System.Linq.4.3.0
- System.Linq.Expressions.4.3.0
- System.Net.Http.4.3.3
- System.Net.Primitives.4.3.0
- System.Net.Sockets.4.3.0
- System.ObjectModel.4.3.0
- System.Reflection.4.3.0
- System.Reflection.Extensions.4.3.0
- System.Reflection.Primitives.4.3.0
- System.Resources.ResourceManager.4.3.0
- System.Runtime.4.3.0
- System.Runtime.Extensions.4.3.0
- System.Runtime.Handles.4.3.0
- System.Runtime.InteropServices.4.3.0
- System.Runtime.InteropServices.RuntimeInformation.4.3.0
- System.Runtime.Numerics.4.3.0
- System.Security.Cryptography.Algorithms.4.3.1
- System.Security.Cryptography.Encoding.4.3.0
- System.Security.Cryptography.Primitives.4.3.0
- System.Security.Cryptography.X509Certificates.4.3.2
- System.Text.Encoding.4.3.0
- System.Text.Encoding.Extensions.4.3.0
- System.Text.RegularExpressions.4.3.0
- System.Threading.4.3.0
- System.Threading.Tasks.4.3.0
- System.Threading.Timer.4.3.0
- System.Xml.ReaderWriter.4.3.1
- System.Xml.XDocument.4.3.0

2. CITITO Structure

2.1. Modules

1. Admin Module
2. User Management Module
3. Inventory Management Module
4. Projects, Task and Quota Management Module
5. Task-In and Task-Out Module
6. Dashboard - Snapshot
7. Task and Quota Review Module
8. Resource Rates Management Module
9. Project Operator Cost Module
10. Workload Review Module
11. X3 Reports
12. Idle and Wastage Reports
13. PTR Report

2.2. Functional Requirements

1. Admin Module
 - a. PIC create/update/delete
 - b. Change PIC Projects
 - c. Resource Code create/update/delete
2. User Management Module
 - a. User create/update/delete
 - b. Access Control [Common User, DCD, Manager]
 - c. Shift map
 - d. Project assign/remove/update
3. Inventory Management Module
 - a. Shipment create/update/delete
 - b. Create Jobs
 - c. Assign Tasks to shipments
4. Projects, Task and Quota Management Module
 - a. Project create/update
 - b. Tasks create/update/delete
 - c. Quota table create/update/delete
5. Task-In and Task-Out Module

- a. Task In
- b. Map user output
- c. Task out
- d. IDLE map

6. Dashboard – Snapshot (Reports**)**

- a. PIC dashboard
 - i. Team Details
 - ii. Workload
 - iii. Project X3
 - iv. Team X3
 - v. User X3
 - vi. Project wise User X3
 - vii. Tasks X3
 - viii. IDLE
 - ix. PTR
- b. Manager dashboard
 - i. Team Details
 - ii. Workload
 - iii. Project X3
 - iv. Team X3
 - v. User X3
 - vi. Project wise User X3
 - vii. Tasks X3

7. Task and Quota Review Module (Reports**)**

- a. Tasks and Quota based
 - i. Average productivity
 - ii. Highest productivity
 - iii. Lowest productivity
 - iv. Median
 - v. Standard deviation
 - vi. Operators above 10% of average
 - vii. Operators below 10% of average

8. Resource Rates Management Module (Reports**)**

- a. Resource codes and rate view

9. Project Operator Cost Module

- a. Summary of operational cost

10. Workload Review Module

- a. Summary of production workload Team/Project and PIC wise

11. X3 Reports (**Reports**)

- a. Project X3
- b. Team X3
- c. User X3
- d. Project wise User X3
- e. Tasks X3

12. IDLE and Wastage Reports (**Reports**)

- a. Summary of IDLE and Wastage

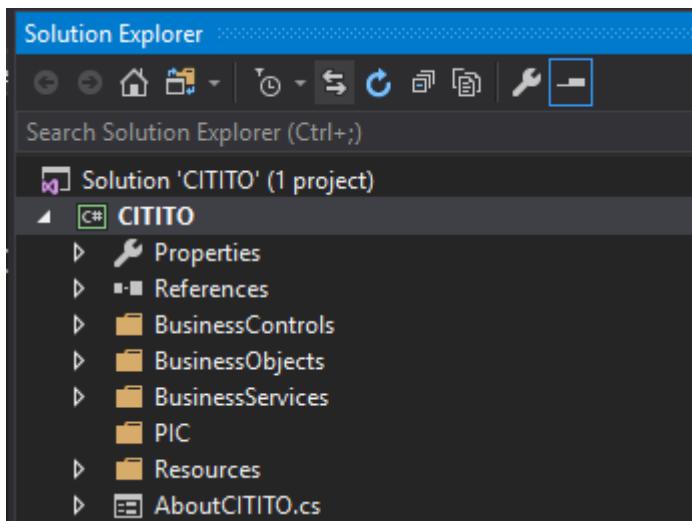
13. PTR Report (**Reports**)

- a. Summary of PRT generate based on resource rate and production cost

2.3. MVC Structure

Solution has been developed MVC architecture. Project has structures in the Visual Studio IDE as below.

- BusinessControls
- BusinessObjects
- BusinessServices



2.3.1. Business Controls

All the controls placed on here, for this solution MD5 hash algorithm used for user management.

2.3.2. Business Objects

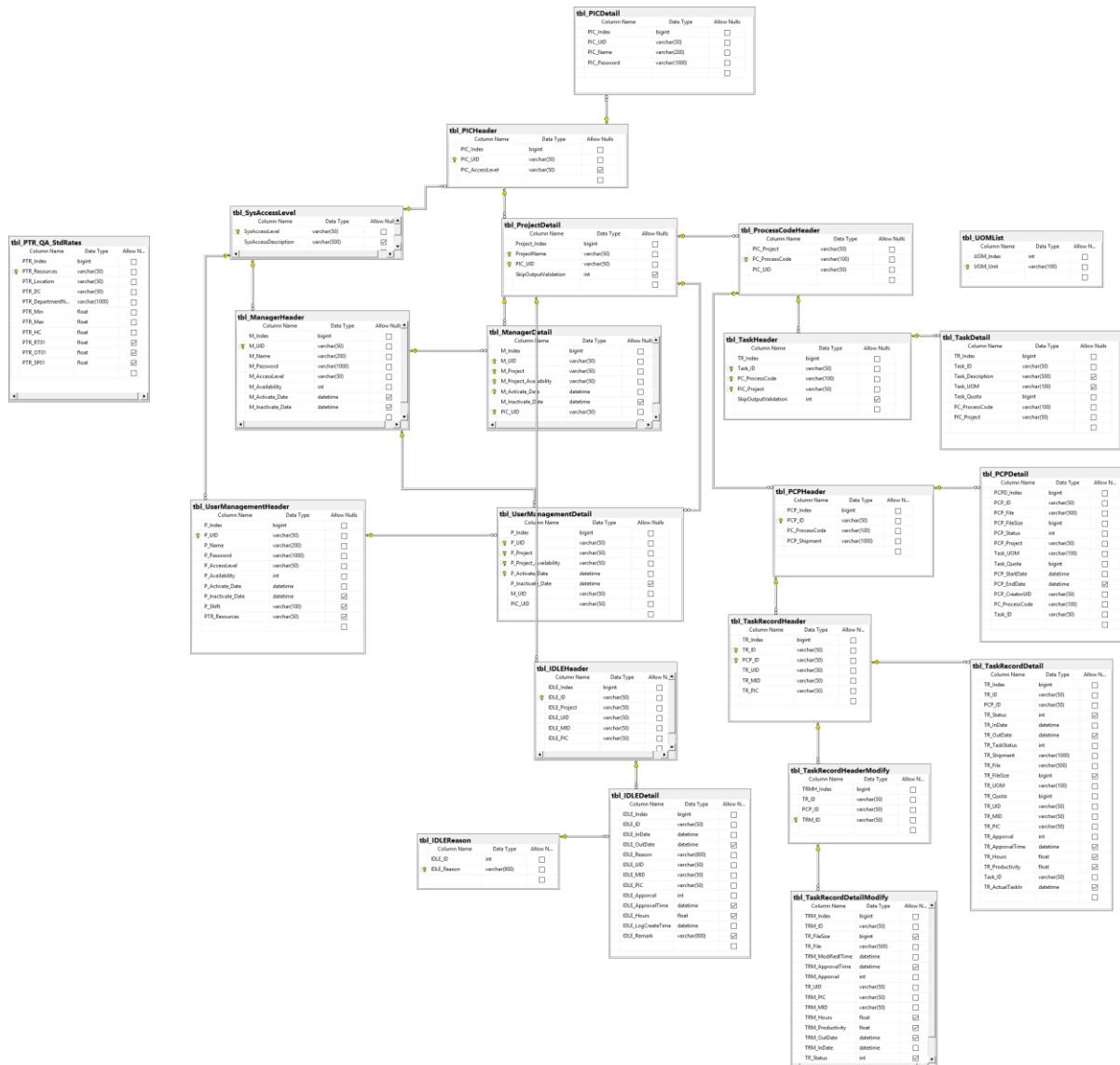
Data modules are created on here that related on all the components.

2.3.3. Business Services

Queries that CITITO modules requires created on here with SP's/SQL queries.

2.4. Database structure

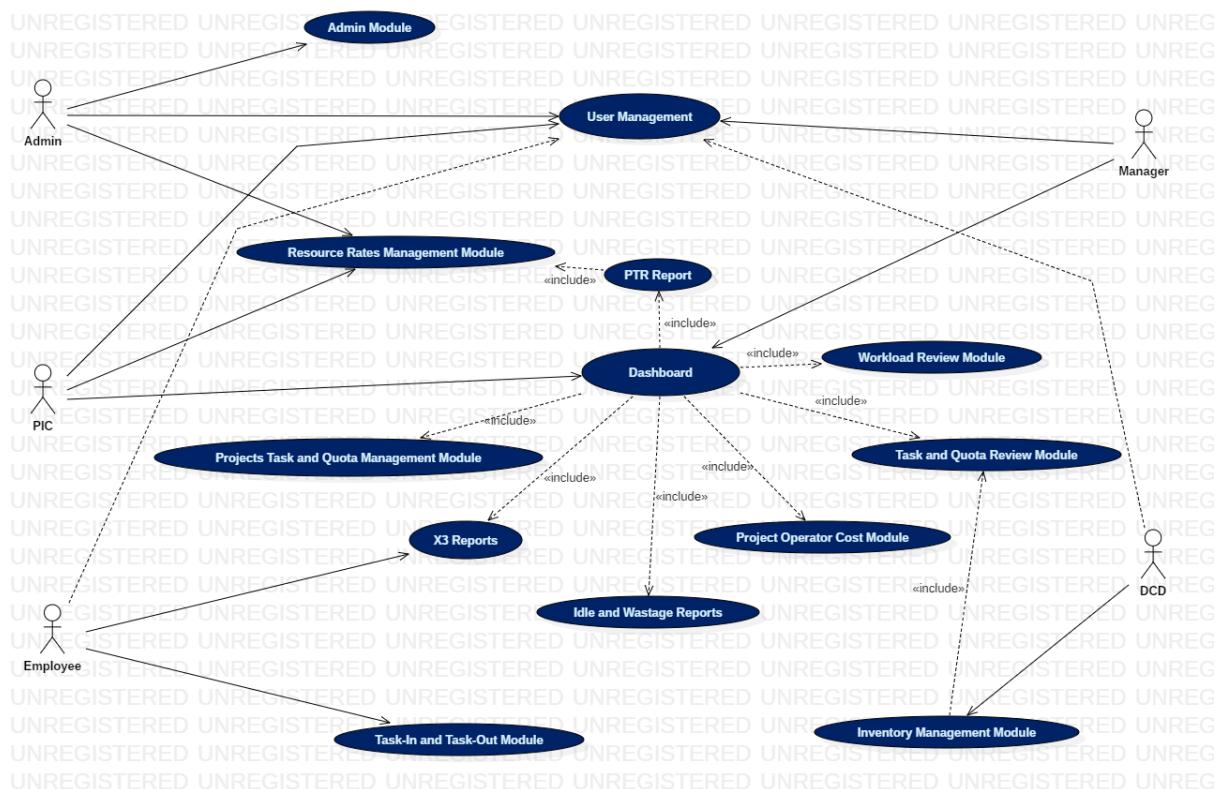
All required data table structure created on CITITO database in remote server. Following is show the Data diagram of this solution.



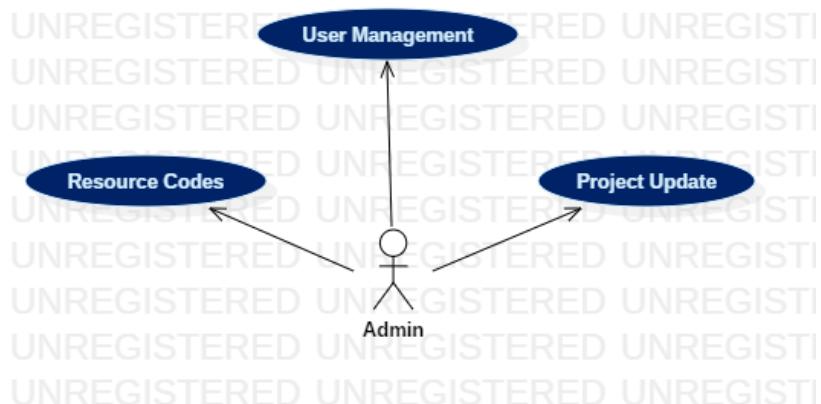
3. Design of Solution

3.1. Use Case Diagrams

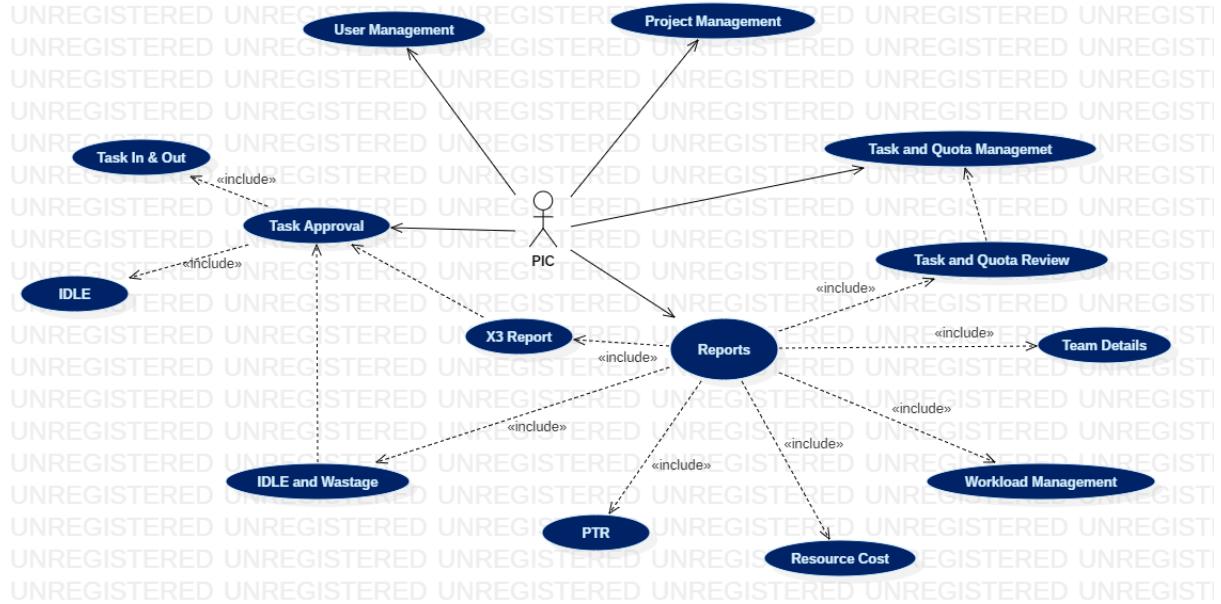
In this solution five actors are relate to the comprehensible modules. CITITO use case diagram shown as below.



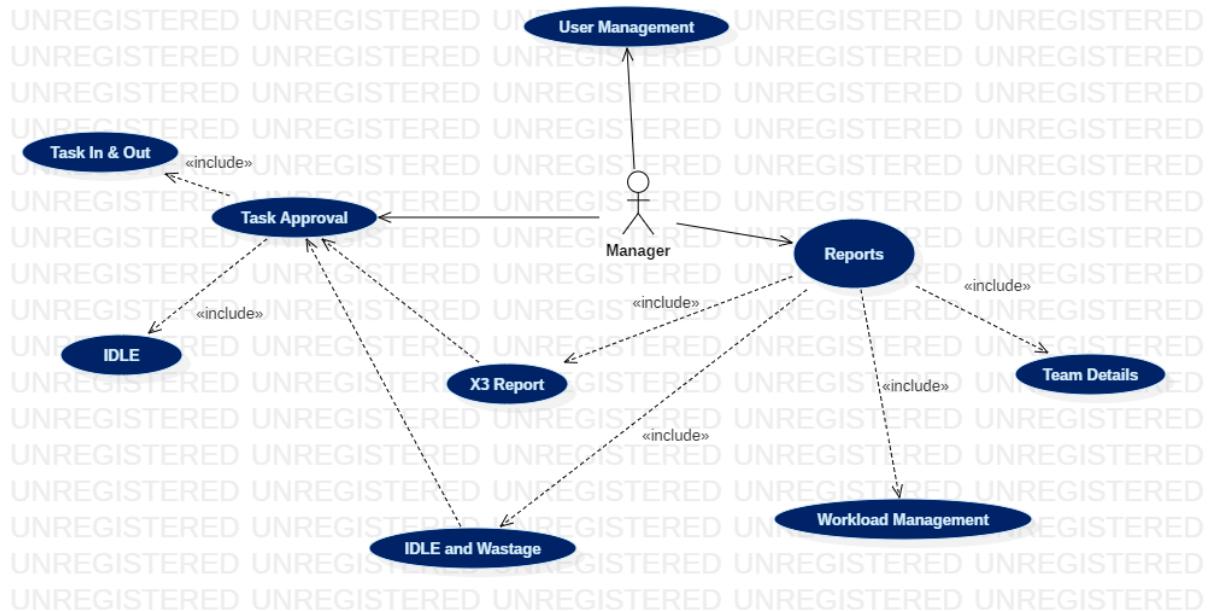
3.1.1. High-end Admin Use Case



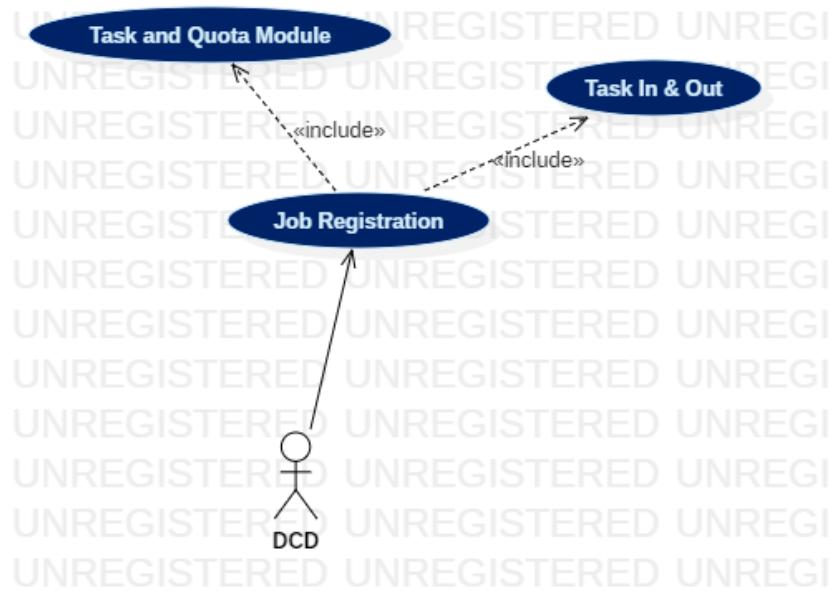
3.1.2. High-end PIC Use Case



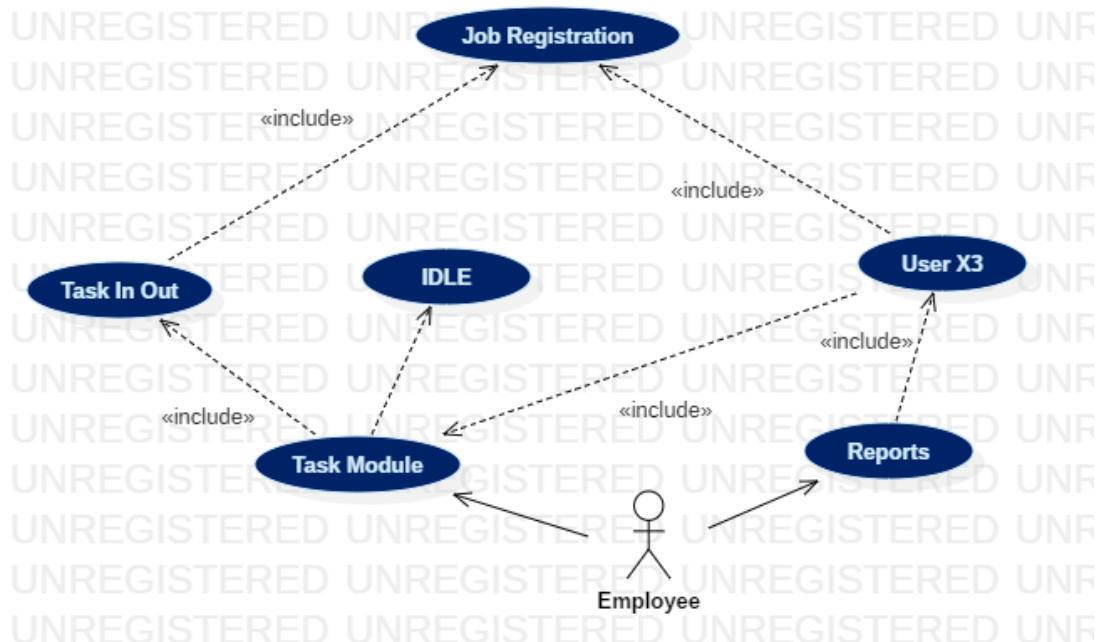
3.1.3. High-end Manager Use Case



3.1.4. High-end DCD Use Case



3.1.5. High-end Employee Use Case

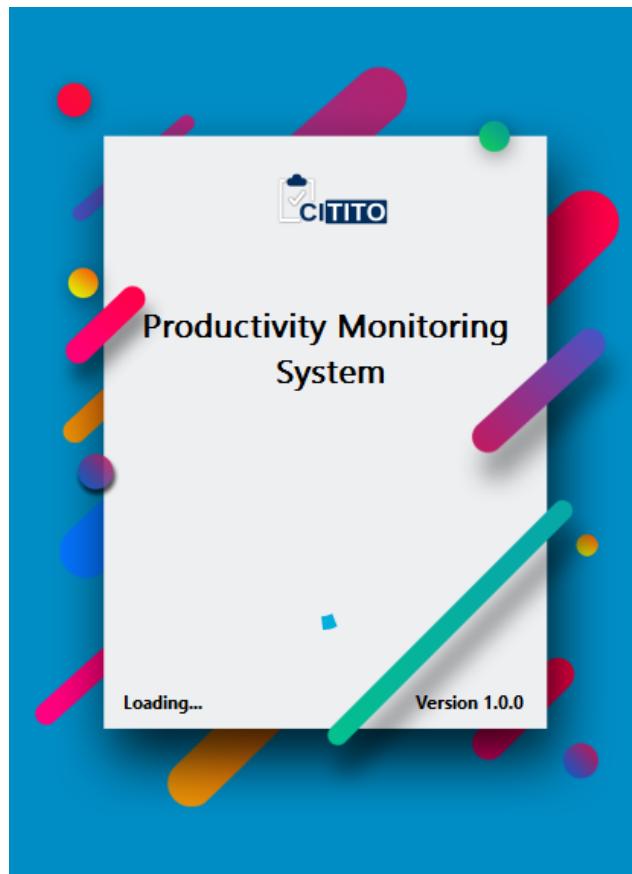


3.2 User Interface

CITITO user interfaces designed using Metro UI Framework. This framework included more flexible and materialized UI components which end user preferred.

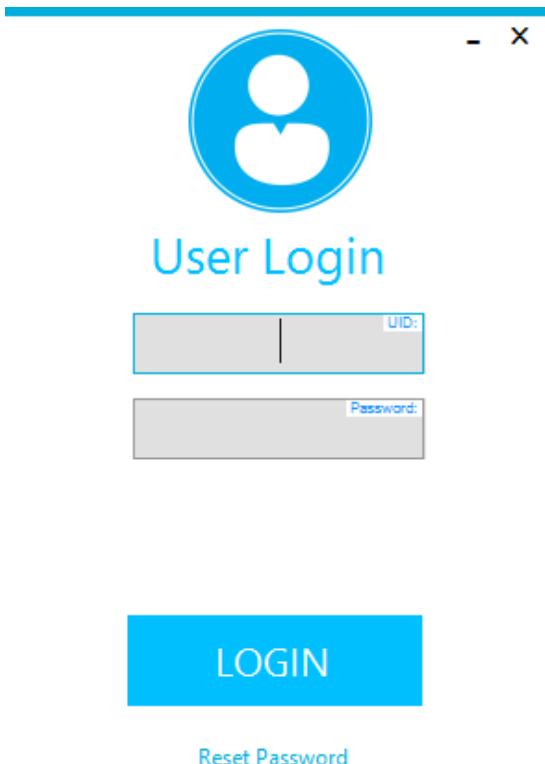
3.2.1. Splash Screen

This is the first screen that user run the CITITO executable. This contains the solution version and it has mapped to the table “**tbl_CITITOVersion**” in CITITO database. It always validate solution version. Therefore once any version update there, may have to update same version in “**tbl_CITITOVersion**” table too.

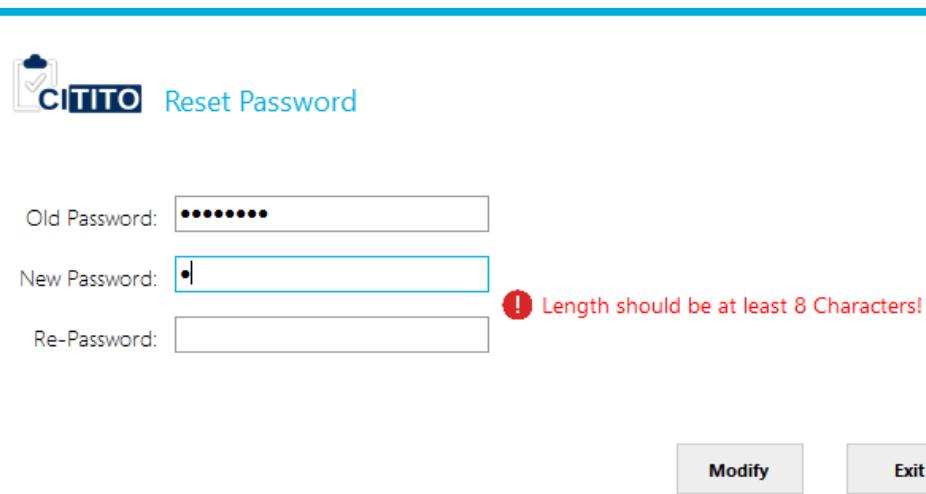


3.2.2. User Login

User must be valid credentials to the use CITITO application. All the credentials can be created by Admin, PIC and Manager. Admin is responsible to create PIC, PIC responsible to create Manager and Employee, Manager undertakes to create Employee credentials.



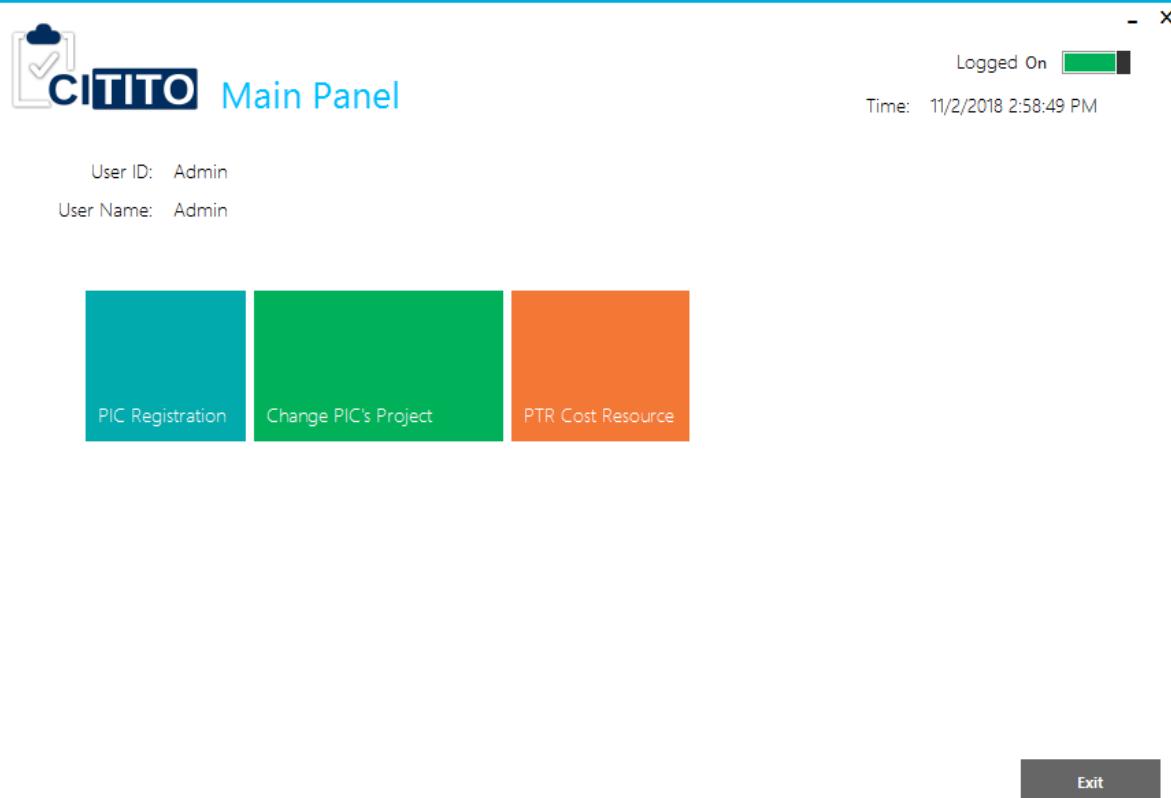
Password reset function is available to change their passwords. Password must be at least 8 characters.



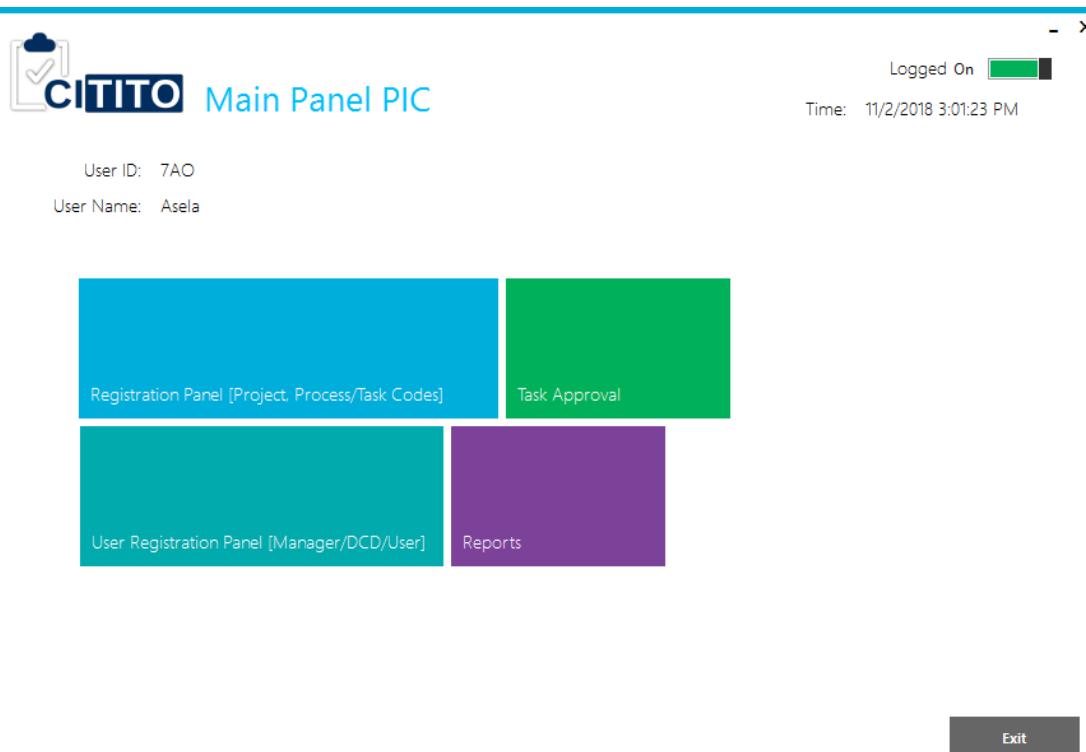
Each users will get operation window according to their access type. There are 5 access types in this solution.

1. Admin
2. PIC
3. Immediate Manager
4. DCD
5. Common User

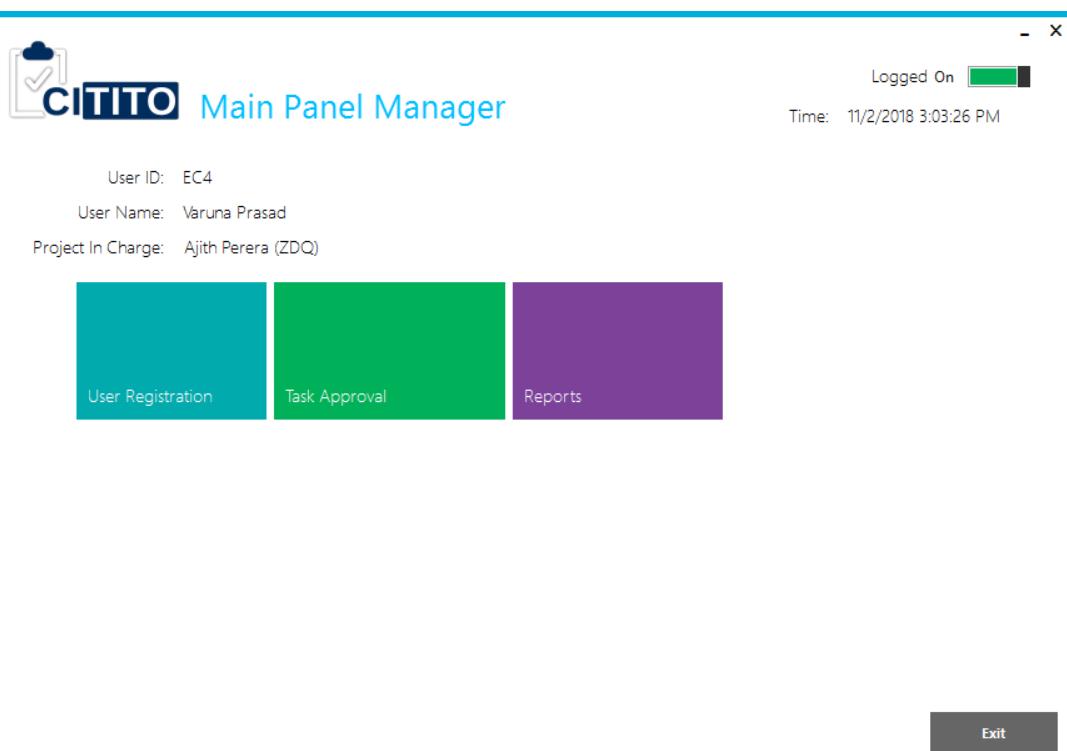
3.2.2.1. Admin Panel



3.2.2.2. PIC Panel



3.2.2.3. Manager Panel





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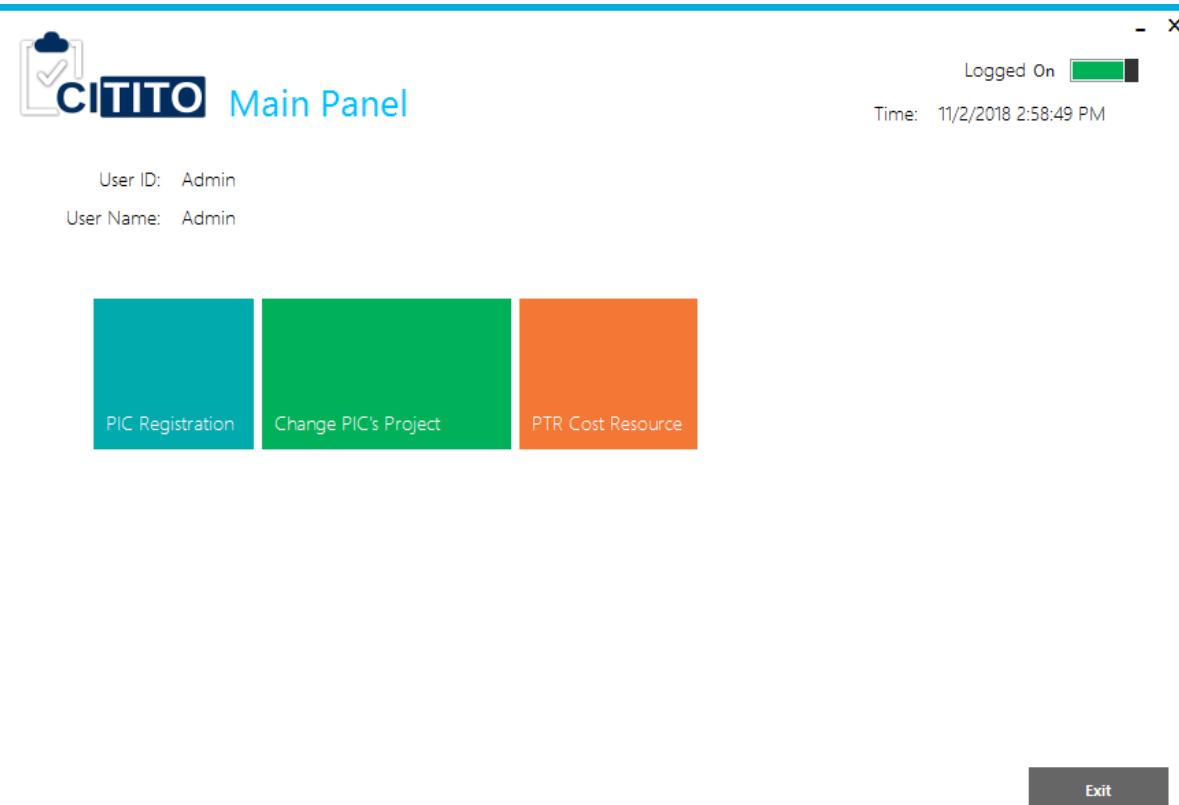
Version 1.0.0.v

3.2.2.4. DCD Panel

3.2.2.5. Employee Panel

3.3. Admin Panel

Admin user is the pioneer of CITITO solution who makes PIC profiles. Only admin can make profiles and change PIC projects. In addition admin can be able to import Resource codes to the CITITO. These resource codes will effected to the all Employees once they are registered to the system.



Admin panel has three types of functions.

1. PIC Registration
2. Change PIC's Project
3. PTR Cost Resource

3.3.1. PIC Registration

Admin user responsible to the PIC profile create in CITITO application. After PIC registration process PIC can map their Project and Quota to the application. In the old TITO application was responsible this part to the Admin user. Following figure is shown the form of PIC registration panel.

CITITO PIC Registration Panel

User ID:	<input type="text"/>	Add Manager
Manager Name:	<input type="text"/>	Modify
Password:	<input type="text"/>	Delete
Re-Password:	<input type="text"/>	Clear
		Exit

Export As 

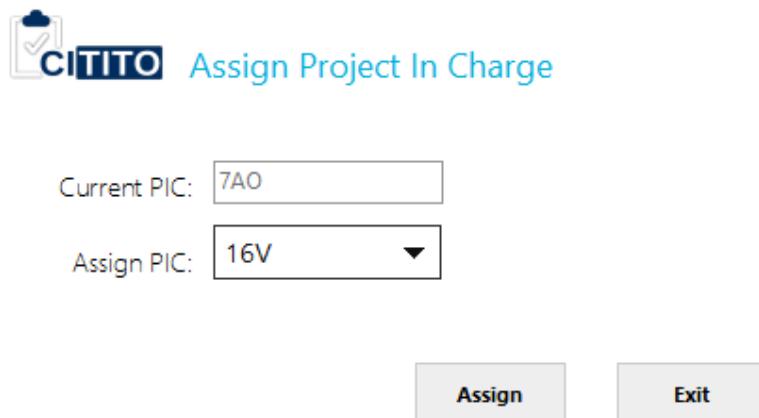
UID	PIC Name	System Access Level
7AO	Asela	Project In Charge
TL6	Lakshitha Jayakodi	Project In Charge
16V	Pradeep Perera	Project In Charge
ZDQ	Ajith Perera	Project In Charge
IZ5	Indu Gurusinghe	Project In Charge
LR3	Pamith Rathnayake	Project In Charge
36W	Nalaka Perera	Project In Charge
TEST	test account pm	Project In Charge
NT8	Tharusha Kushalan	Project In Charge
ZBL	Chaminda Nalagamage	Project In Charge
XS8	Manuri Amodhi	Project In Charge
YPS	Dunstan Pillai	Project In Charge

If PIC name or password modification available, admin can make the changes selecting PIC from the list and clicking modify button.

CITITO Modify Project In Charge

Current Name:	<input type="text" value="Asela"/>	Modify
New Name:	<input type="text"/>	Exit
<input type="checkbox"/> Modify Password		
Password:	<input type="text"/>	
Re-Password:	<input type="text"/>	

If PIC deletion available, all the fresh PIC can delete at the time. Otherwise if there any project owned, PIC must remove from the system after transferring their projects to another PIC. PIC transferring dialog will shows as below.



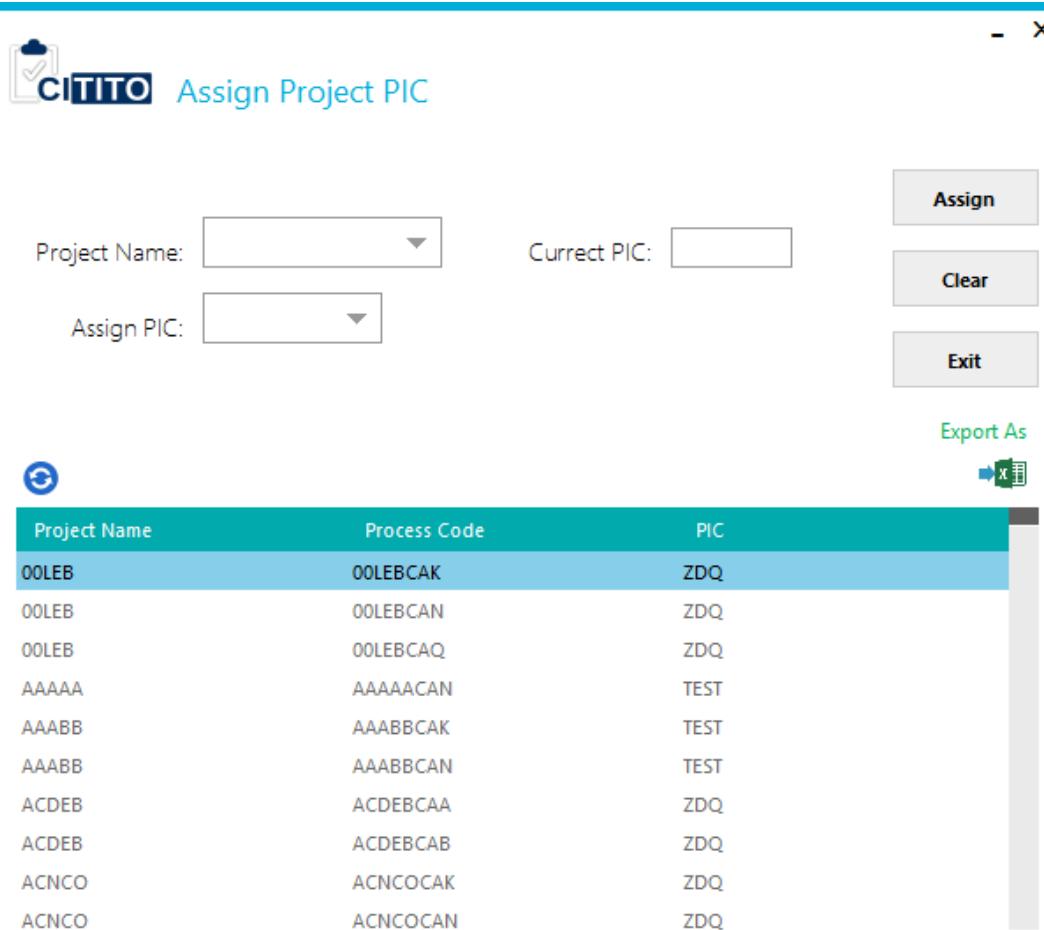
CITITO Assign Project In Charge

Current PIC:

Assign PIC:

3.3.2. Change PIC's Project

From this function, admin can assign PIC owned project into another PIC in the system. Select project that need to be changed from the Project Name dropdown and current PIC will show next to the dropdown. Then admin can select the assigner from Assign PIC dropdown.



- X

CITITO Assign Project PIC

Project Name:

Current PIC:

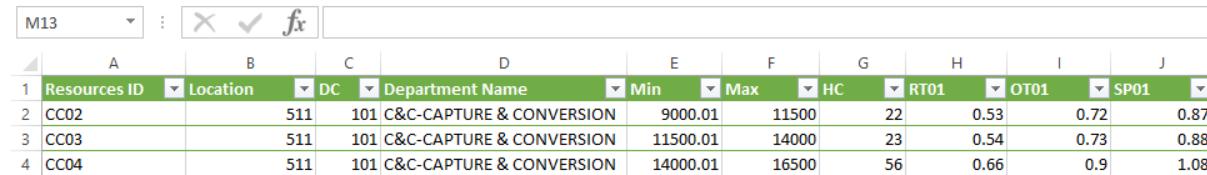
Assign PIC:

Export As 

Project Name	Process Code	PIC
0OLEB	0OLEBCAK	ZDQ
0OLEB	0OLEBCAN	ZDQ
0OLEB	0OLEBCAQ	ZDQ
AAAAA	AAAAACAN	TEST
AAABB	AAABBCAK	TEST
AAABB	AAABBCAN	TEST
ACDEB	ACDEBCAA	ZDQ
ACDEB	ACDEBCAB	ZDQ
ACNCO	ACNCOCAK	ZDQ
ACNCO	ACNCOCAN	ZDQ

3.3.3. PTR Cost Resource

In this function responsible to import employee's resources cost IDs to the system. The template of resource cost table places on “**BulkImportTemplate**” folder and here is the sample of image.



	A	B	C	D	E	F	G	H	I	J
1	Resources ID	Location	DC	Department Name	Min	Max	HC	RT01	OT01	SP01
2	CC02		511	101 C&C-CAPTURE & CONVERSION	9000.01	11500	22	0.53	0.72	0.87
3	CC03		511	101 C&C-CAPTURE & CONVERSION	11500.01	14000	23	0.54	0.73	0.88
4	CC04		511	101 C&C-CAPTURE & CONVERSION	14000.01	16500	56	0.66	0.9	1.08



Resources ID	Location ID	DC	Department Name	Min	Max	HC	RT01	OT01	SP01
CC02	511	101	C&C-CAPTURE & C...	9000.01	11500	22	0.53	0.72	0.87
CC03	511	101	C&C-CAPTURE & C...	11500.01	14000	23	0.54	0.73	0.88
CC04	511	101	C&C-CAPTURE & C...	14000.01	16500	56	0.66	0.9	1.08
CC05	511	101	C&C-CAPTURE & C...	16500.01	19000	7	0.76	1.04	1.24
CC06	511	101	C&C-CAPTURE & C...	19000.01	21500	7	0.86	1.16	1.39
CC08	511	101	C&C-CAPTURE & C...	24000.01	26500	4	1.07	1.46	1.75
CC10	511	101	C&C-CAPTURE & C...	29000.01	31500	6	1.26	1.73	2.08
CC12	511	101	C&C-CAPTURE & C...	34000.01	36500	4	1.47	2.02	2.43
CC13	511	101	C&C-CAPTURE & C...	36500.01	39000	3	1.46	2.01	2.42
CC18	511	101	C&C-CAPTURE & C...	49000.01	51500	1	2.1	2.89	3.47
CC42	513	101	C&C-CAPTURE & C...	9000.01	11500	10	0.43	0.58	0.69
CQ02	511	120	QA-QUALITY & AS...	11500.01	14000	1	0.54	0.73	0.88
PX21	511	102	I&A - Indexing & A...	150000.02	152500	1	6.65	8.74	10.49
PX30	511	102	I&A - Indexing & A...	172500.02	175000	1	7.68	10.23	12.28
PX37	511	102	I&A - Indexing & A...	190000.02	192500	1	8.41	11.08	13.3
RC02	511	101	C&C-CAPTURE & C...	11500.01	14000	8	0.61	0.78	0.94
RC03	511	101	C&C-CAPTURE & C...	14000.01	16500	58	0.68	0.88	1.06
RC04	511	101	C&C-CAPTURE & C...	16500.01	19000	71	0.79	1.02	1.22
RC05	511	101	C&C-CAPTURE & C...	19000.01	21500	30	0.92	1.16	1.39
RC06	511	101	C&C-CAPTURE & C...	21500.01	24000	29	1.05	1.33	1.59
RC07	511	101	C&C-CAPTURE & C...	24000.01	26500	11	1.17	1.46	1.75
RC08	511	101	C&C-CAPTURE & C...	26500.01	29000	10	1.25	1.58	1.9
RC09	511	101	C&C-CAPTURE & C...	29000.01	31500	18	1.39	1.75	2.1
RC10	511	101	C&C-CAPTURE & C...	31500.01	34000	3	1.52	1.92	2.31
RC11	511	101	C&C-CAPTURE & C...	34000.01	36500	4	1.55	2.02	2.43

3.4. PIC Panel

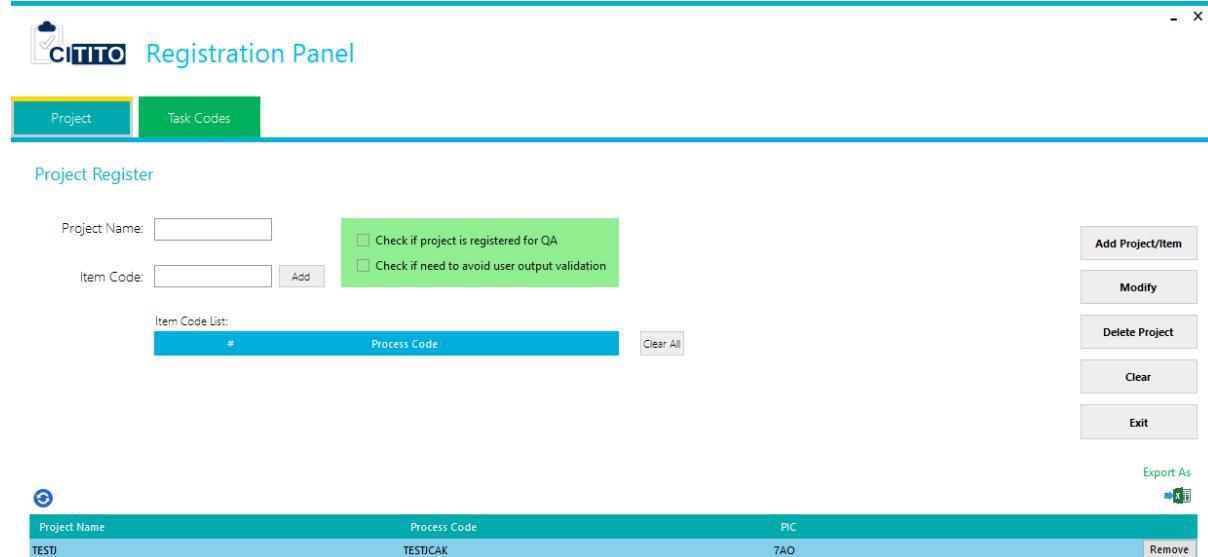
Any login has “Project In Charge” credentials, system will automatically redirect to the PIC Panel. In the main panel PIC can role below certain functions.

1. Registration Panel [Project Process/Task Codes]
2. Task Approval
3. User Registration Panel [Manager/DCD/User]
4. Reports



3.4.1. Registration Panel [Project Process/Task Codes]

Matrix defined all projects and task codes can be adopted to the CITITO system. There are two tabs available to register Project and Task Codes. PIC is only responsible to this function.



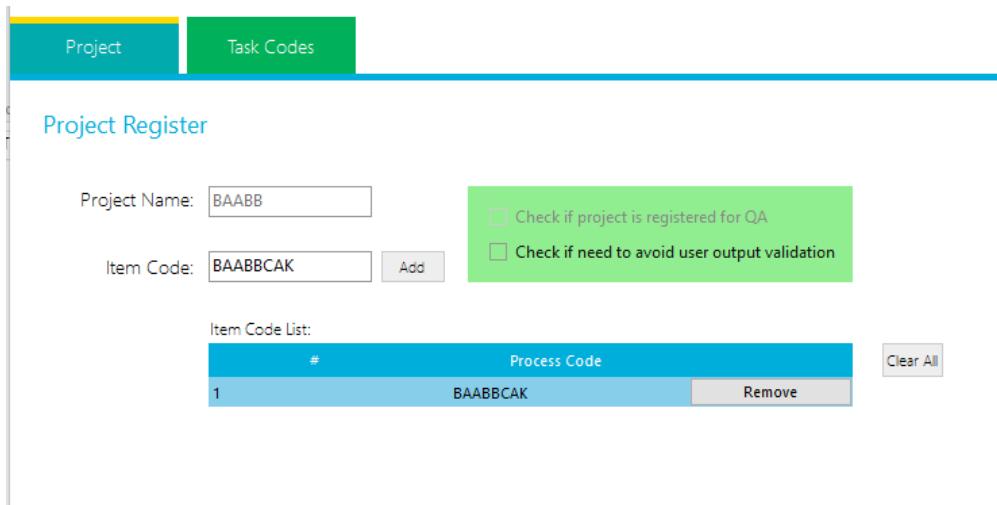
Project Register

Project Name:	<input type="checkbox"/> Check if project is registered for QA	<input type="checkbox"/> Check if need to avoid user output validation
Item Code:	<input type="text"/>	Add
Item Code List:		
#	Process Code	Clear All
TESTI	TESTJICAK	

Add Project/Item
 Modify
 Delete Project
 Clear
 Exit
 Export As 

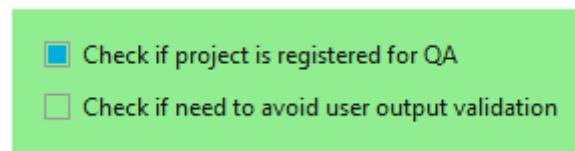
3.4.1.1. Project

PIC must be fill Project Name and the Item codes according to the Matrix. The project name innodata is standardize in to 5 characters.



The screenshot shows a software interface titled "Project Register". At the top, there are two tabs: "Project" (selected) and "Task Codes". Below the tabs, there is a form with fields for "Project Name" (containing "BAABB") and "Item Code" (containing "BAABBCAK"). There is also an "Add" button. To the right of these fields are two checkboxes: "Check if project is registered for QA" (unchecked) and "Check if need to avoid user output validation" (unchecked). Below the input fields is a table titled "Item Code List" with one row containing item code "BAABBCAK". A "Remove" button is next to the table, and a "Clear All" button is located to its right.

For the QA project registration PIC must be checked “**Check if project is registered for QA**”.



The screenshot shows a software interface titled "Project Register". Below the "Project" tab, there is a green box containing two checkboxes: "Check if project is registered for QA" (checked) and "Check if need to avoid user output validation" (unchecked).

Another option is given to task output validation from employee task in out stage. Some projects/tasks such as byte size available, have not popper output evaluation before register the tasks. Therefore these type of tasks will calculate the output once user done their job/task. Meantime user output validation is not allowed to the task that user tasked in.



The screenshot shows a software interface titled "Project Register". Below the "Project" tab, there is a green box containing two checkboxes: "Check if project is registered for QA" (unchecked) and "Check if need to avoid user output validation" (checked).

Once registered project and related tasks, PIC can click Project/Item button. CITITO also allowed only task registration for the existing projects.

3.4.1.2. Task Codes

PIC can update relevant quota details for the registered Projects and Item Codes. Matrix mapped task quota should be registered here. Task Code/ID will automatically generated from CITITO system, therefore old TITO system owned task codes are not valid for this system. (Ex: E1, E2, E9, E10, E11, E13, E14).

Registration Panel

Project Task Codes

Task Code Register

Task Code	Description	UOM	Quota	Skip User Output Validation
TES_TJ3	Compare	Page Count	220	TESTJ
TES_TJ1	Formatting	Page Count	150	TESTJ
TES_TJ2	Typeset	Page Count	250	TESTJ

PIC must fill following details to the task.

Description, UOM (Unit of Measurements), Quota and Skip User Output Validation

Project Name: TESTJ

Process Code: TESTJCAK

Task Code List:

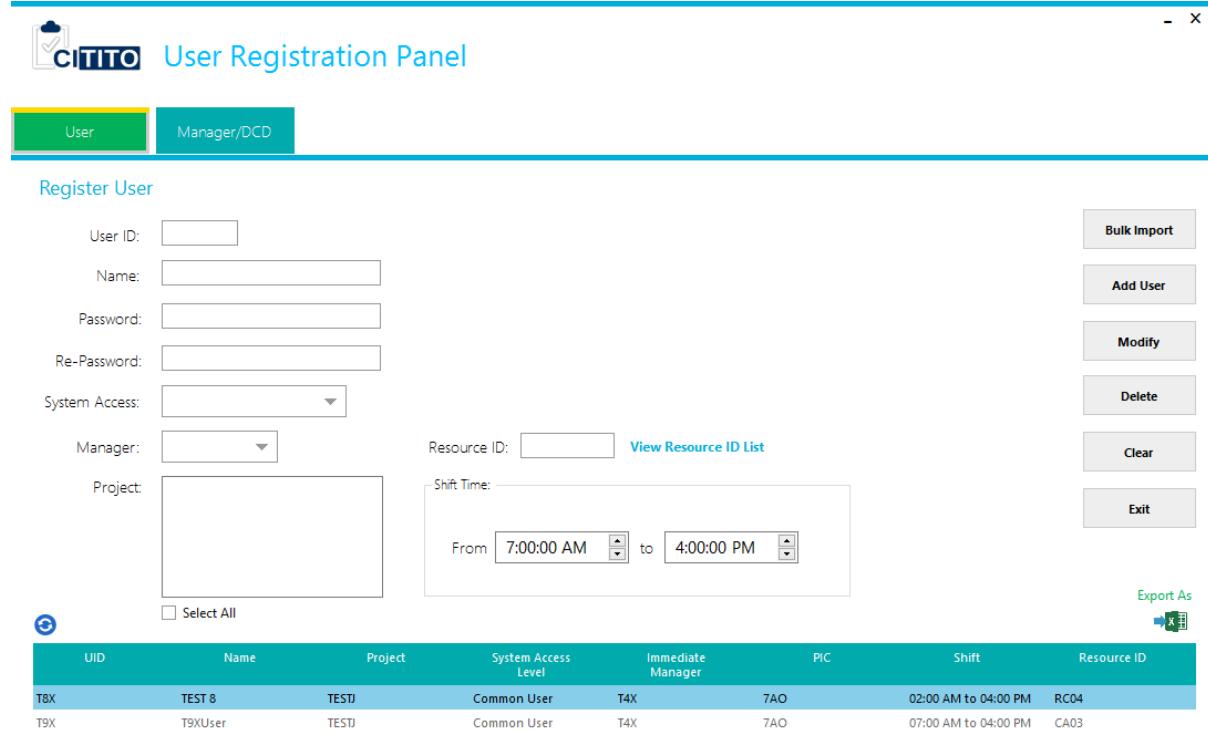
Task Code	Description	UOM	Quota	Project	Item/Process Code	User Output Validation
TES_TJ4	Records	Book Count	0	TESTJ	TESTJCAK	No

Additionally PIC can delete registered task code one by one or bulk with the item code by using “Remove” or “Delete by Process Code” buttons.

3.4.2. User Registration Panel [Manager/DCD/User]

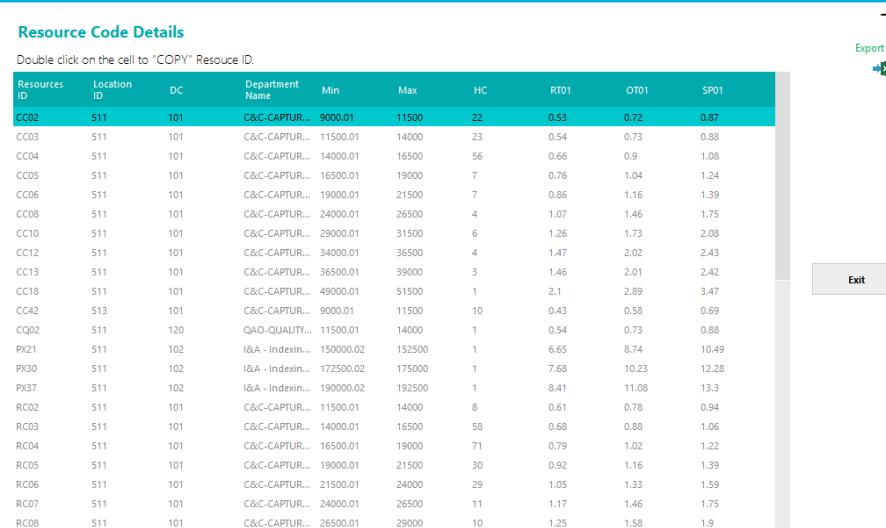
PIC is responsible to create Manage, DCD, Employee user profiles to the CITITO system. There are two tabs to user registration panel for Employees and Manage/DCD.

3.4.2.1. User



UID	Name	Project	System Access Level	Immediate Manager	PIC	Shift	Resource ID
T8X	TEST 8	TESTJ	Common User	T4X	7AO	02:00 AM to 04:00 PM	RC04
T9X	T9XUser	TESTJ	Common User	T4X	7AO	07:00 AM to 04:00 PM	CA03

Employee has individual resource code and shift, PIC need to be find out resource code according to the salary scale and fill resource ID.

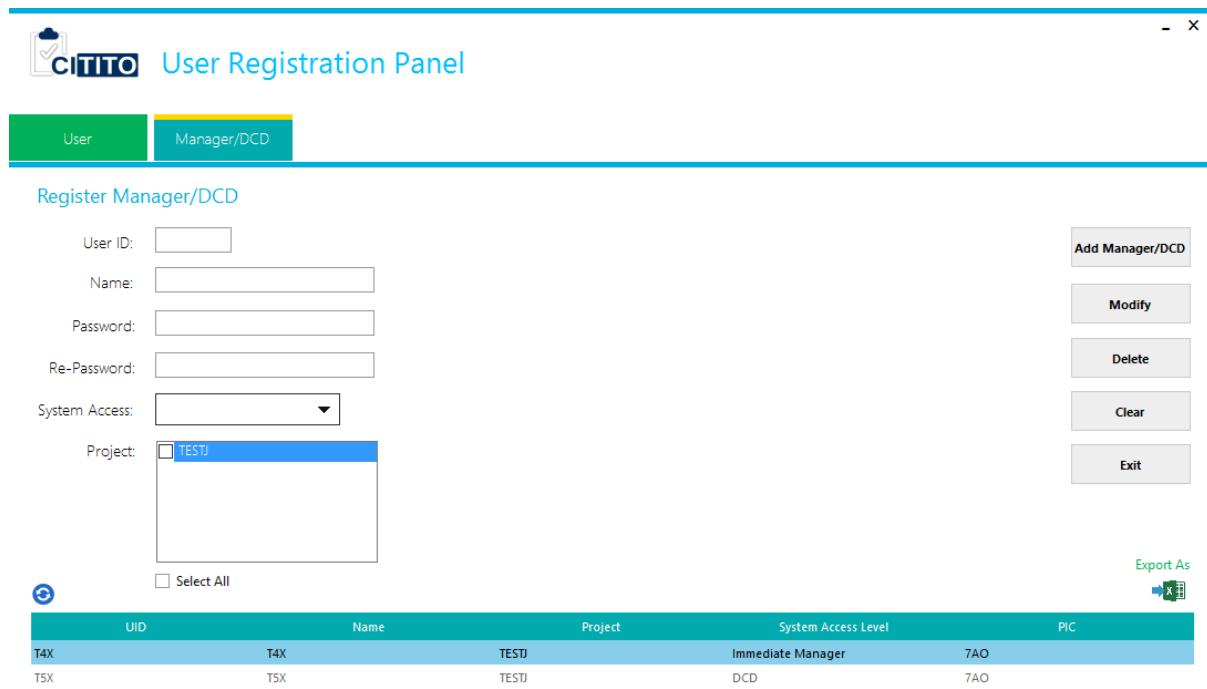


Resources ID	Location ID	DC	Department Name	Min	Max	HC	RT01	OT01	SP01
CC02	511	101	C&C-CAPTUR...	9000.01	11500	22	0.53	0.72	0.87
CC03	511	101	C&C-CAPTUR...	11500.01	14000	23	0.54	0.73	0.88
CC04	511	101	C&C-CAPTUR...	14000.01	16500	56	0.66	0.9	1.08
CC05	511	101	C&C-CAPTUR...	16500.01	19000	7	0.76	1.04	1.24
CC06	511	101	C&C-CAPTUR...	19000.01	21500	7	0.86	1.16	1.39
CC08	511	101	C&C-CAPTUR...	24000.01	26500	4	1.07	1.46	1.75
CC10	511	101	C&C-CAPTUR...	29000.01	31500	6	1.26	1.73	2.08
CC12	511	101	C&C-CAPTUR...	34000.01	36500	4	1.47	2.02	2.43
CC13	511	101	C&C-CAPTUR...	36500.01	39000	3	1.46	2.01	2.42
CC18	511	101	C&C-CAPTUR...	49000.01	51500	1	2.1	2.89	3.47
CC42	513	101	C&C-CAPTUR...	9000.01	11500	10	0.43	0.58	0.69
CO02	511	120	QAO-QUALITY...	11500.01	14000	1	0.54	0.73	0.88
PX21	511	102	I&A - Indexin...	150000.02	152500	1	6.65	8.74	10.49
PX30	511	102	I&A - Indexin...	172500.02	175000	1	7.68	10.23	12.28
PX37	511	102	I&A - Indexin...	190000.02	192500	1	8.41	11.08	13.3
RC02	511	101	C&C-CAPTUR...	11500.01	14000	8	0.61	0.78	0.94
RC03	511	101	C&C-CAPTUR...	14000.01	16500	58	0.68	0.88	1.06
RC04	511	101	C&C-CAPTUR...	16500.01	19000	71	0.79	1.02	1.22
RC05	511	101	C&C-CAPTUR...	19000.01	21500	30	0.92	1.16	1.39
RC06	511	101	C&C-CAPTUR...	21500.01	24000	29	1.05	1.33	1.59
RC07	511	101	C&C-CAPTUR...	24000.01	26500	11	1.17	1.46	1.75
RC08	511	101	C&C-CAPTUR...	26500.01	29000	10	1.25	1.58	1.9

3.4.2.2. Manager/DCD

Manager/DCD user can register by PIC. Both manager and DCD profiles differed by system access levels while registration. They are,

- Immediate Manager
- DCD



The screenshot shows a software interface titled "User Registration Panel". At the top, there are two tabs: "User" (highlighted in green) and "Manager/DCD" (highlighted in yellow). Below the tabs, the title "Register Manager/DCD" is displayed. The form contains fields for "User ID" (input field), "Name" (input field), "Password" (input field), "Re-Password" (input field), "System Access" (dropdown menu), and "Project" (list box containing "TESTI" which is selected). To the right of the form are several buttons: "Add Manager/DCD", "Modify", "Delete", "Clear", and "Exit". At the bottom left is a "Select All" checkbox. On the far right, there is a "Export As" button with a file icon.

UID	Name	Project	System Access Level	PIC
T4X	T4X	TESTI	Immediate Manager	7AO
T5X	T5X	TESTI	DCD	7AO

Note: Managers must be registered before creating an employee.

3.4.3. Task Approval

All employees' task records, modified task records and IDLE records approvals can be function from this panel. Once approve any task record they will effect to the user evaluation process in each and every midnight in a day. Therefore today approvals X3's will be shown in tomorrow.

For PIC access level, task approval panel is giving following functions.

1. Task In/Out Approval
2. Pending Records
3. Modified Approval
4. IDLE Approval

CITITO Task Approve Panel

The screenshot shows the 'Task In/Out Approval' tab selected. The interface includes a search bar with fields for Manager, User ID, Job Code, and File Name, along with a Date Range selector set to 11/5/2018. A 'Check' button and an 'Export As' link are also present. The main area displays a grid of task records with columns for UID, Record ID, Job Code, Shipment, File Name, Output, OUM, Task, Job Status, Task In Time, Task Out Time, Task Hours, Approval Status, Approval Time, and Task Productivity. A vertical yellow bar highlights the 'Approval Status' column. On the right side, there are buttons for Approve, Disapprove, Delete, Modify, Clear, and Exit.

3.4.3.1. Task In/Out Approval

Employees done task records for approvals will show in this tab. This also load in default once PIC clicked on Task Approvals.

On this tab offer filters to the PIC for filter by Manager, Employee ID, PCP/Job Code, filename or given time period. Further it has function to see previous approval records history.

CITITO Task Approve Panel

The screenshot shows the 'Task In/Out Approval' tab selected. The interface includes a search bar with fields for Manager, Approval, User ID, Job Code, and File Name, along with a Date Range selector set to 10/1/2018 - 11/5/2018. A 'Check' button and an 'Export As' link are also present. The main area displays a grid of task records with columns for UID, Record ID, Job Code, Shipment, File Name, Output, OUM, Task, Job Status, Task In Time, Task Out Time, Task Hours, Approval Status, Approval Time, and Task Productivity. A vertical blue bar highlights the 'Approval Status' column. On the right side, there are buttons for Go to Approvals, Rollback Approval, Clear, and Exit.

3.4.3.2. Pending Records

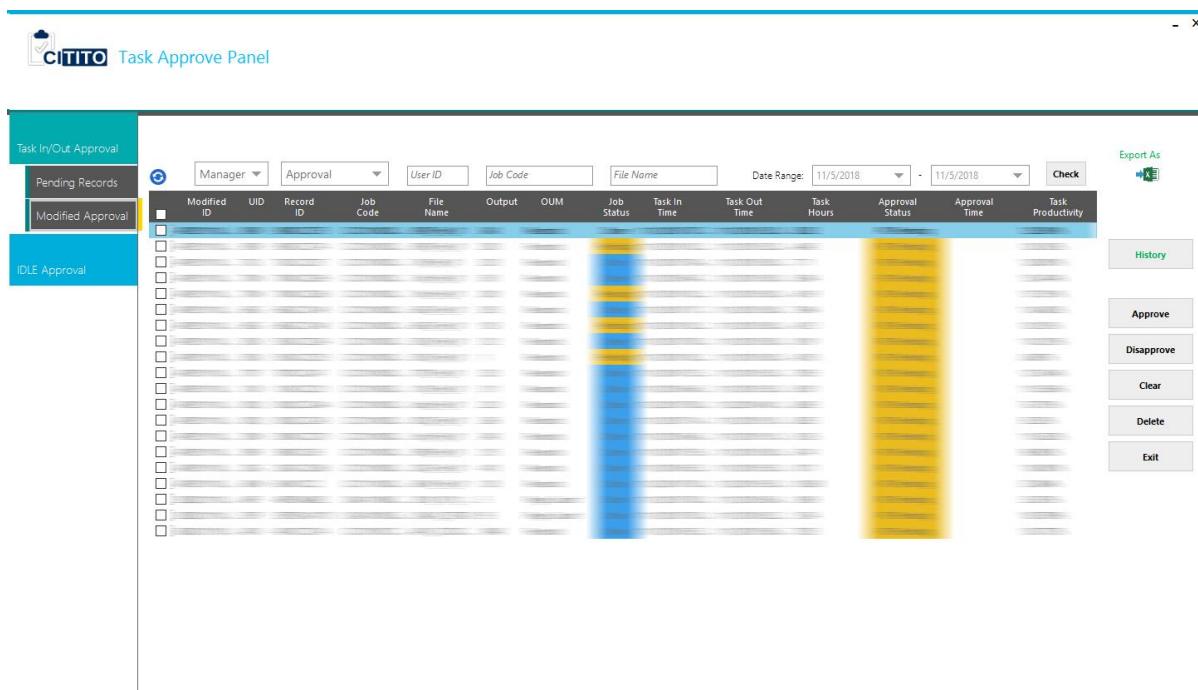
This function is given to check all employees' pending task records. It was given only for reference and not enable any function to approvals.



The screenshot shows the CITITO Task Approve Panel interface. The title bar reads "CITITO Task Approve Panel". On the left, there is a sidebar with tabs: "Task In/Out Approval" (selected), "Pending Records" (highlighted in yellow), and "Modified Approval". The main area contains a table with columns: UID, Record ID, Job Code, Shipment, File Name, Output, OUM, Task, Job Status, Task In Time, Task Out Time, Task Hours, Approval Status, Approval Time, and Task Productivity. There are several rows of data in the table, with some cells highlighted in yellow and green. At the bottom right of the main area are two buttons: "Clear" and "Exit".

3.4.3.3. Modified Approval

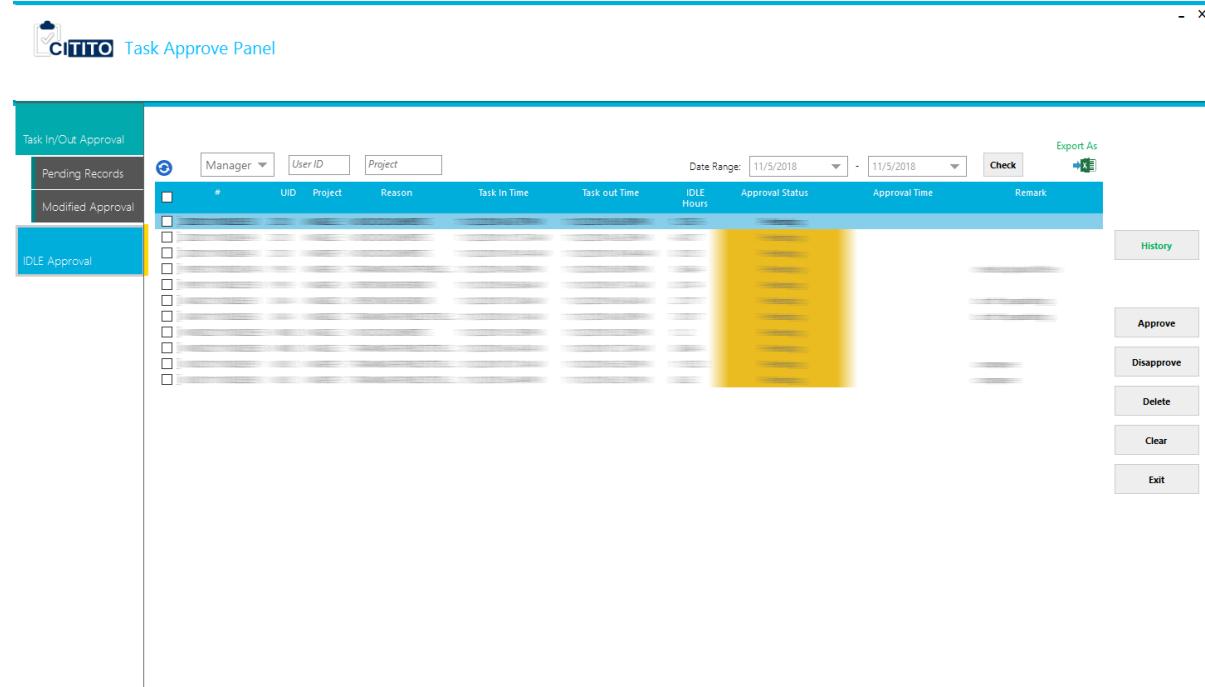
If there any conflict on employee task record, manager can be modify task record. The modified task record should approve by the PIC. From this tab PIC can be able to approve modified records by manager.



The screenshot shows the CITITO Task Approve Panel interface. The title bar reads "CITITO Task Approve Panel". On the left, there is a sidebar with tabs: "Task In/Out Approval" (selected), "Pending Records", and "Modified Approval" (highlighted in blue). The main area contains a table with columns: Modified ID, UID, Record ID, Job Code, File Name, Output, OUM, Job Status, Task In Time, Task Out Time, Task Hours, Approval Status, Approval Time, and Task Productivity. There are several rows of data in the table, with some cells highlighted in blue and yellow. On the right side of the main area, there is a vertical stack of buttons: "History", "Approve", "Disapprove", "Clear", "Delete", and "Exit".

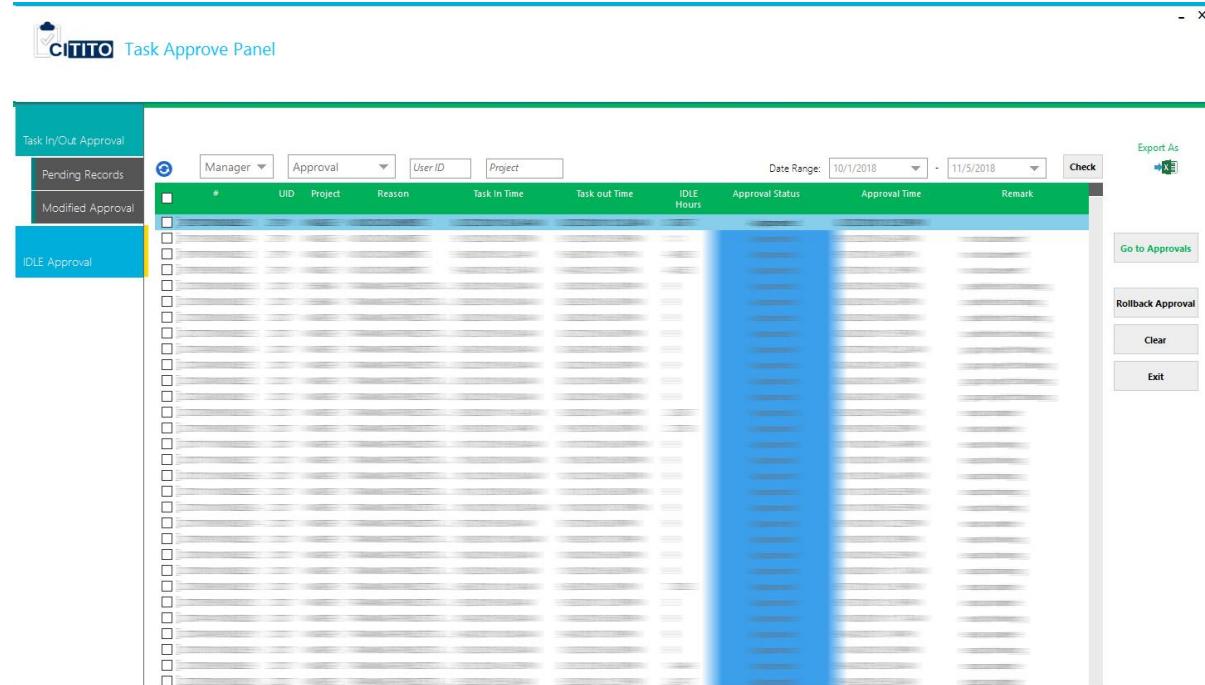
3.4.3.4. IDLE Approval

All employees' IDLEs will show on this tab.



The screenshot shows the CITITO Task Approve Panel interface. On the left, there is a vertical navigation bar with tabs: Task In/Out Approval (selected), Pending Records, Modified Approval, and IDLE Approval (highlighted with a yellow background). The main area contains a grid table with columns: #, UID, Project, Reason, Task In Time, Task out Time, IDLE Hours, Approval Status, Approval Time, and Remark. At the top of the main area, there are filters for Manager, UserID, Project, Date Range (set to 11/5/2018 - 11/5/2018), and a Check button. To the right of the grid, there are buttons for Export As (CSV), History, Approve, Disapprove, Delete, Clear, and Exit. A large yellow rectangular box highlights the Approval Status column in the grid.

IDLE approval history.



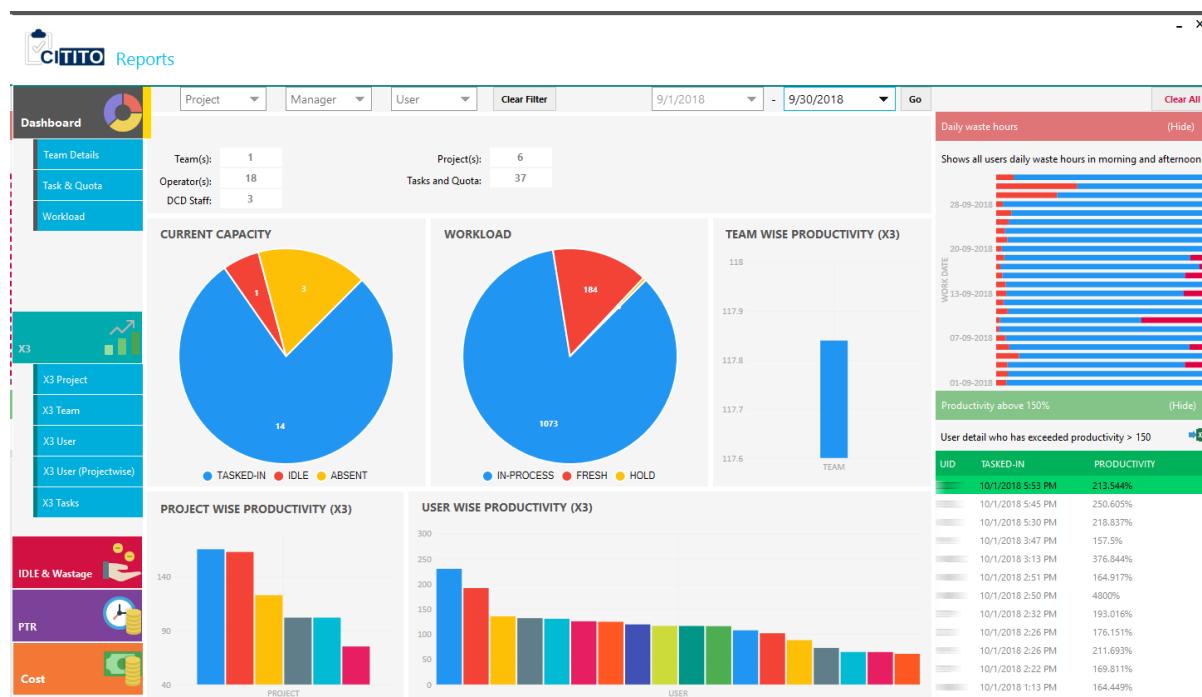
This screenshot is similar to the previous one, showing the CITITO Task Approve Panel. The navigation bar has the same tabs: Task In/Out Approval (selected), Pending Records, Modified Approval, and IDLE Approval (highlighted with a blue background). The main area shows the same grid table with columns: #, UID, Project, Reason, Task In Time, Task out Time, IDLE Hours, Approval Status, Approval Time, and Remark. The filters at the top are identical. To the right of the grid, there are buttons for Export As (CSV), Go to Approvals, Rollback Approval, Clear, and Exit. A large blue rectangular box highlights the Approval Status column in the grid.

3.4.4. Reports

PIC is able to get following reports for future action.

The dashboard is shown,

1. Dashboard
2. Team Details
3. Task & Quota
4. Workload
5. X3 Project
6. X3 Team
7. X3 User
8. X3 User (ProjectWise)
9. X3 Tasks
10. IDLE & Wastage
11. PTR
12. Cost



3.4.4.1. Dashboard

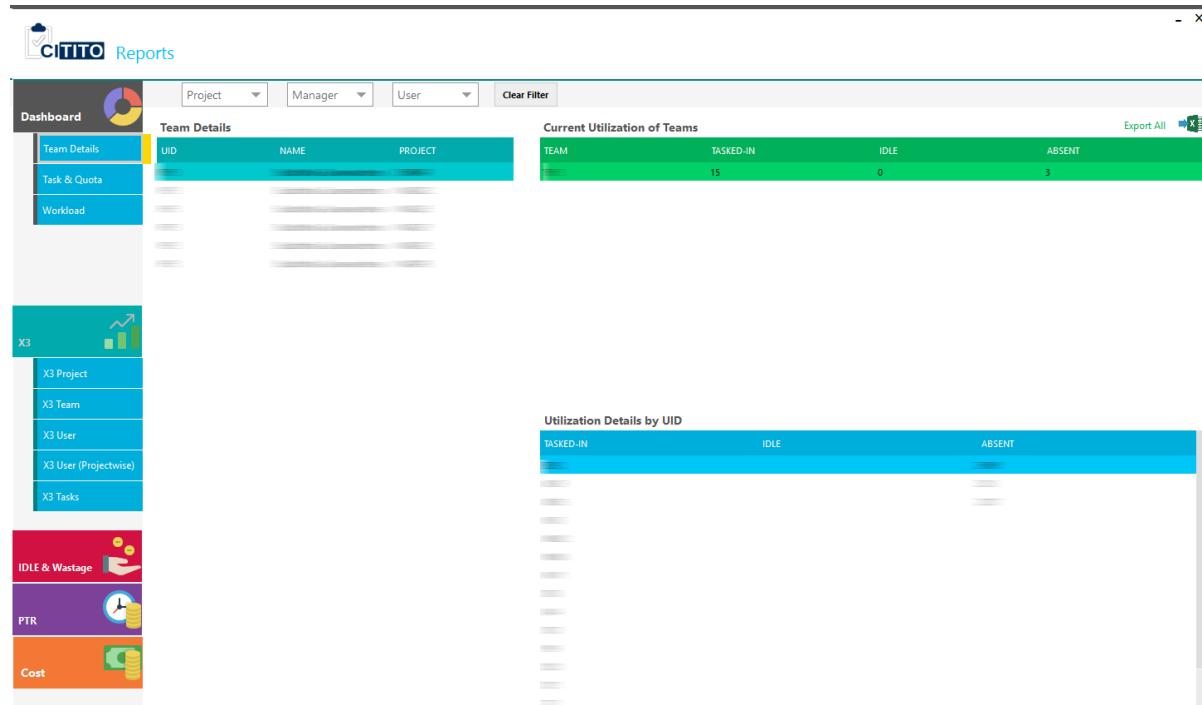
Summarized details for PIC is shown in this dashboard. All the data will gather from CITITO database and Global AMS database.

1. Number of Teams
2. Operator Count
3. DCD Staff Count
4. Project Count
5. Registered Tasks & Quota Count

6. Current Capacity
7. Workload
8. Team Wise Productivity (X3)
9. Project Wise Productivity (X3)
10. User Wise Productivity (X3)
11. Daily Waste Hours
12. Productivity above 150%

3.4.4.2. Team Details

Team and user detail under PIC is displaying here. Project and Team Manager Name, Team wise current utilization and current utilized UID will show with Team Details summary.



The screenshot shows the CITITO Reports application window. On the left, there's a sidebar with navigation links: Dashboard, Team Details (which is selected and highlighted in yellow), Task & Quota, and Workload. Below these are sections for X3 (X3 Project, X3 Team, X3 User, X3 User [Projectwise], X3 Tasks) and Idle & Wastage (Idle & Wastage, PTR, Cost). The main content area has three tables:

- Team Details:** A table with columns: UID, NAME, and PROJECT. It lists several entries with blurred names and project details.
- Current Utilization of Teams:** A table with columns: TEAM, TASKED-IN, IDLE, and ABSENT. The data is as follows:

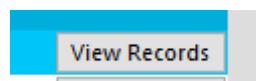
TEAM	TASKED-IN	IDLE	ABSENT
Team 1	15	0	3
- Utilization Details by UID:** A table with columns: TASKED-IN, IDLE, and ABSENT. The data is as follows:

TASKED-IN	IDLE	ABSENT
UID 1	0	0

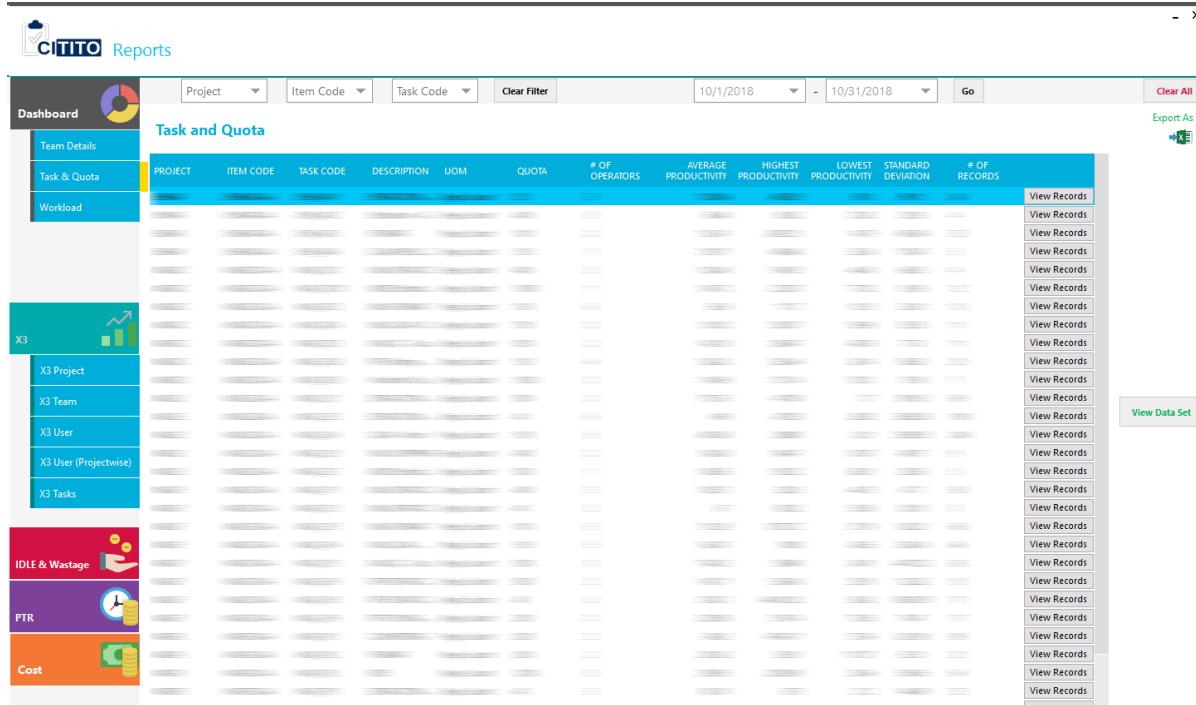
3.4.4.3. Task & Quota

Each and every task wise UOM, Quota, Number of Operators, Average, Highest, Lowest Productivity, Standard deviation and used records will show in Task & Quota review summary. PIC can review their task & quota periodically or real time to make action.

For each record in summary has View records button to check all based on records that make summary.

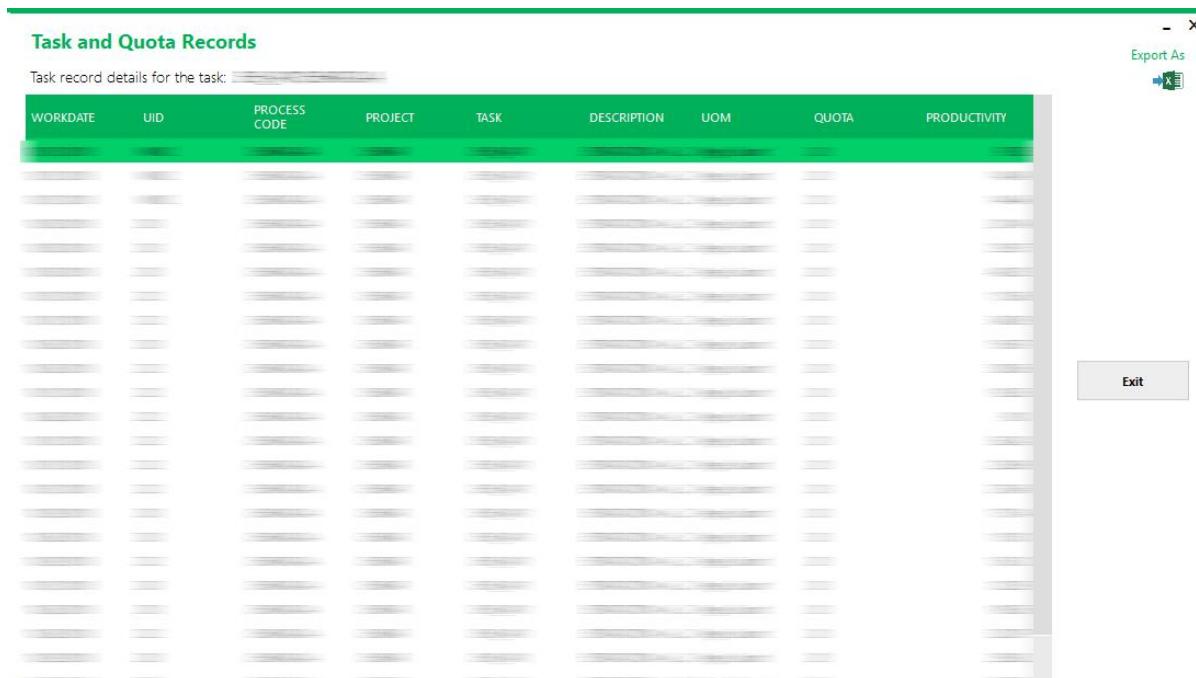


Summary:



The screenshot shows the CITITO Reports interface. At the top, there are filters for Project, Item Code, Task Code, and a date range from 10/1/2018 to 10/31/2018. Below the filters is a table titled "Task and Quota" with columns: PROJECT, ITEM CODE, TASK CODE, DESCRIPTION, UOM, QUOTA, # OF OPERATORS, AVERAGE PRODUCTIVITY, HIGHEST PRODUCTIVITY, LOWEST PRODUCTIVITY, STANDARD DEVIATION, and # OF RECORDS. To the right of the table is a column of "View Records" buttons. On the left, there's a sidebar with "Dashboard", "Team Details", "Task & Quota" (which is selected), and "Workload". Below the sidebar are three sections: "X3" (with links to X3 Project, X3 Team, X3 User, X3 User (Projectwise), and X3 Tasks), "IDLE & Wastage", "PTR", and "Cost".

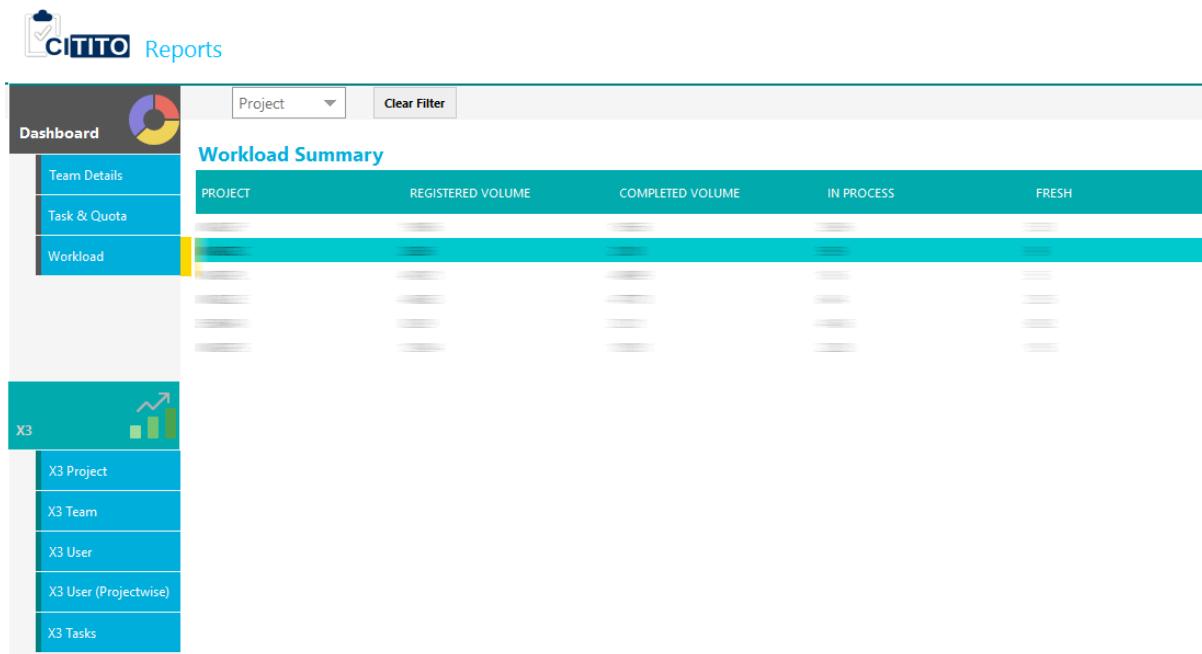
View Records:



The screenshot shows the "Task and Quota Records" interface. It displays a table with columns: WORKDATE, UID, PROCESS CODE, PROJECT, TASK, DESCRIPTION, UOM, QUOTA, and PRODUCTIVITY. The table has many rows of data. In the top right corner, there is an "Exit" button.

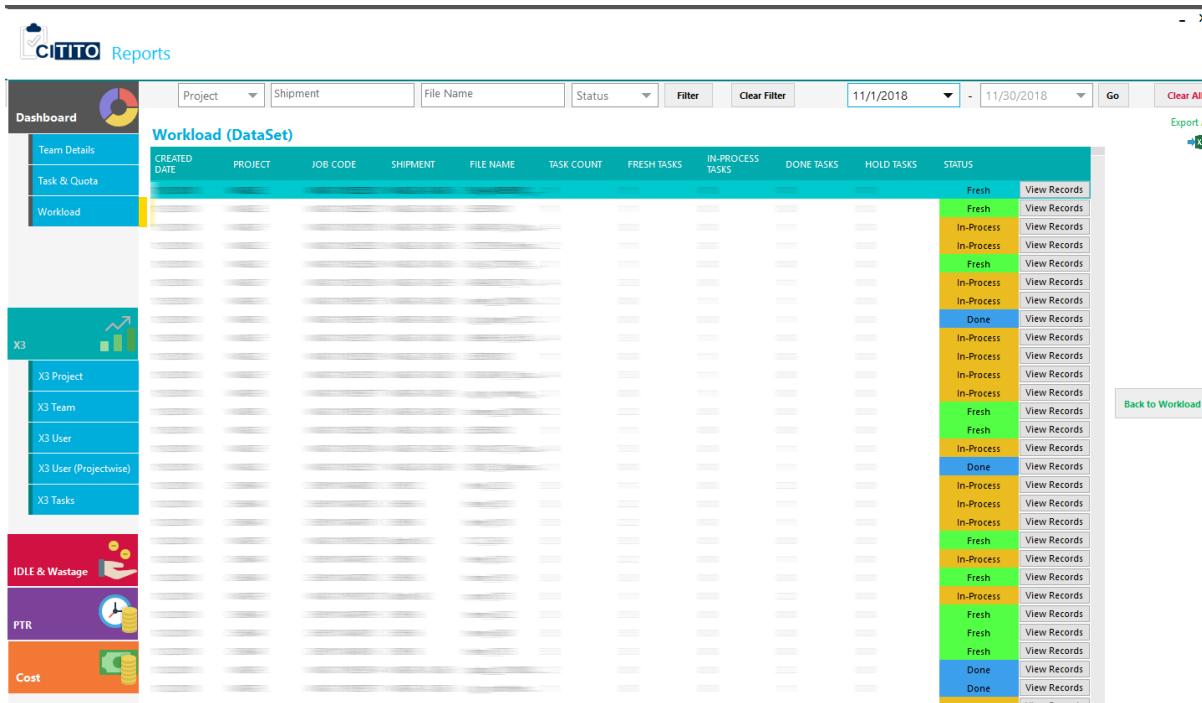
3.4.4.4. Workload

PIG can review project wise all the Registered, Completed, In Process, Fresh and Hold Volumes.



The screenshot shows the CITITO Reports interface. The top navigation bar includes the CITITO logo, a search bar labeled 'Project' with a dropdown arrow, and a 'Clear Filter' button. Below the header is a sidebar with 'Dashboard', 'Team Details', 'Task & Quota', and 'Workload' (which is selected and highlighted in blue). The main content area is titled 'Workload Summary' and displays a table with columns: PROJECT, REGISTERED VOLUME, COMPLETED VOLUME, IN PROCESS, and FRESH. The table has several rows of data. To the left of the main content is a vertical sidebar with 'X3' at the top, followed by 'X3 Project', 'X3 Team', 'X3 User', 'X3 User (Projectwise)', and 'X3 Tasks'. At the bottom of the sidebar are three icons: 'IDLE & Wastage' (hand icon), 'PTR' (clock icon), and 'Cost' (coin icon).

By clicking “View Data Set” all the records can be refer individual status.



The screenshot shows the CITITO Reports interface with the 'Workload (DataSet)' view. The top navigation bar includes the CITITO logo, a search bar with dropdowns for 'Project', 'Shipment', 'File Name', and 'Status', and buttons for 'Filter', 'Clear Filter', 'Go', and 'Clear All'. There is also an 'Export As' button with a CSV icon. The sidebar on the left shows 'Dashboard', 'Team Details', 'Task & Quota', and 'Workload' (selected). The main content area displays a table titled 'Workload (DataSet)' with columns: CREATED DATE, PROJECT, JOB CODE, SHIPMENT, FILE NAME, TASK COUNT, FRESH TASKS, IN-PROCESS TASKS, DONE TASKS, HOLD TASKS, and STATUS. The STATUS column uses color coding: Fresh (green), In-Process (orange), and Done (blue). Each row in the table has a 'View Records' link next to it. A 'Back to Workload' button is located in the bottom right corner of the table area. The bottom of the sidebar features the same three icons as the previous screenshot: 'IDLE & Wastage', 'PTR', and 'Cost'.



TECHNICAL REPORT

Innodata

Version 1.0.0.v

Title Details

Detailed records for the PCP:

Export As

Export As

1

Exit

3.4.4.5. X3 Project

Each project wise performance is showing X3 Project tab.

CITITO Reports

Dashboard

Team Details

Task & Quota

Workload

X3

X3 Project

X3 Team

X3 User

X3 User (Projectwise)

X3 Tasks

IDLE & Wastage

PTR

Cost

Project

Clear Filter

10/1/2018 - 10/31/2018

Go

Clear All

Export All

Summary of Project Performance (X3)

Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

PROJECT	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
	457.45	20.43	3185379	1646810.89	193.43	1
	568.27	50.8	3321140.4	2045786.5	162.34	2
	356.82	103.43	2021193	1284569.71	157.36	3
	92.45	8.31	4072518	3324407.77	122.5	4
	99	0.65	356049	356391.07	99.9	5
	637.45	84.98	2042566.2	2294807.08	89.01	6

[View Data Set](#)

3.4.4.6. X3 Team

PIC owned team wise performance will show here.

 CITITO Reports
Team [10/1/2018 - 10/31/2018] Go Export As 

Summary of Team Performance (X3)

Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

TEAM	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
	3813.76	241.56	17311010.4	13729526	126.09	1
	4137.95	162.97	17775589.66	14896626	119.33	2
	4622.41	207.09	15842850.03	16640683.01	95.21	3

X3

- [X3 Project](#)
- [X3 Team](#)
- [X3 User](#)
- [X3 User \(Projectwise\)](#)
- [X3 Tasks](#)

IDLE & Wastage

- [PTR](#)
- [Cost](#)

3.4.4.7. X3 User

All the user performance under PIC will show X3 User tab.

 CITITO Reports
User [10/1/2018 - 10/31/2018] Go Export As 

Summary of User Performance (X3)

Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

UID	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
	128.73	2.55	927682.75	463424	200.18	1
	277.86	4.2	1968523.45	1000284	196.8	2
	252.53	5.9	1474200	909094	162.16	3
	228.7	4.9	1318644	823324	160.16	4
	220.75	5.05	1212577.2	794685	152.59	5
	200.74	8.58	1082088	722661	149.74	6
	263.3	4.7	1363854.8	947867	143.87	7
	291.63	2.78	1502801.38	1049853	143.14	8
	193.28	9.94	992764.8	695818	142.68	9
	215.37	10.78	1087210.8	775315	140.23	10
	245.48	11.15	1226944.8	883714	138.84	11
	261.22	7.29	1302386.4	940387	138.5	12
	213.05	8.21	1052884.8	766978	137.28	13
	229.08	5.16	1127678.4	824670	136.74	14
	248.57	3.94	1214632.8	894843	135.74	15
	136.39	3.1	659487.6	490991	134.32	16
	213.61	10.83	1014098.4	769004	131.87	17
	279.56	5.7	1295632.2	1006431	129.03	18
	237.33	1.43	1092662.07	854400	127.89	19
	210.07	9.04	954349.2	756251	126.2	20
	241.01	6.17	1089180	867641	125.53	21
	280.44	2.48	1256337.93	1009574	124.44	22
	258.97	3.26	1117241.38	932303	119.84	23
	282.74	3.54	1170422.07	1017861	114.99	24
	211.96	1.85	870777.93	763053	114.12	25
	191	12.5	775299.6	687600	112.76	26
	231.96	1.75	939600	835054	112.52	27

3.4.4.8. X3 User (ProjectWise)

Every employee project wise performance will show here.

The screenshot shows a report titled "Summary of User Projectwise (X3)". The report table has columns: UID, PROJECT, WORKED HOURS, APPROVED IDLE, X1, Y, and X3. The data shows various user entries with their respective worked hours, approved idle time, and project codes (X1, Y, X3). A sidebar on the left shows navigation links for Dashboard, Team Details, Task & Quota, Workload, X3 (with X3 Project selected), X3 Team, X3 User, X3 User (Projectwise) (which is highlighted in yellow), and X3 Tasks. A sidebar on the right shows links for IDLE & Wastage, PTR, and Cost.

UID	PROJECT	WORKED HOURS	APPROVED IDLE	X1	Y	X3
		92.34	3.87	129947.14	332417.94	39.09
		6.63	0	17590.91	23878.53	73.67
		86.14	1.01	232913.85	310097.62	75.11
		4.94	0	17280	17791.91	97.12
		98.58	2.15	324223.45	354903.24	91.36
		179.27	2.05	1644300	645380.76	254.78
		271.03	5.7	1295064	975724.65	132.73
		8.53	0	3499.2	30706.35	11.4
		231.96	1.75	939600	835054	112.52
		223.35	3.94	1171260	804058.28	145.67
		25.22	0	43372.8	90784.72	47.78
		36.64	0	160956	131895.29	122.03
		164.1	8.58	921132	590765.71	155.92
		81.31	1.53	177372	292725.13	60.59
		147.6	13.96	241639.2	531365.87	45.48
		0	33.43	0	0	0
		85.66	1.55	212454	308365.59	68.9
		155.3	12.88	264254.4	559082.41	47.27
		262.28	3.76	1061379.31	944192	112.41
		245.42	2.68	933455.17	883524	105.65
		282.74	3.54	1170422.07	1017861	114.99
		237.33	1.43	1092660.07	854400	127.89
		42.1	0	166680	151572.62	109.97
		170.95	8.21	886204.8	615405.38	144.01
		206.53	11.08	3826671.14	743521	51.47
		242.44	4.7	1334322	872772.35	152.88
		20.86	0	29332.8	75094.65	39.06

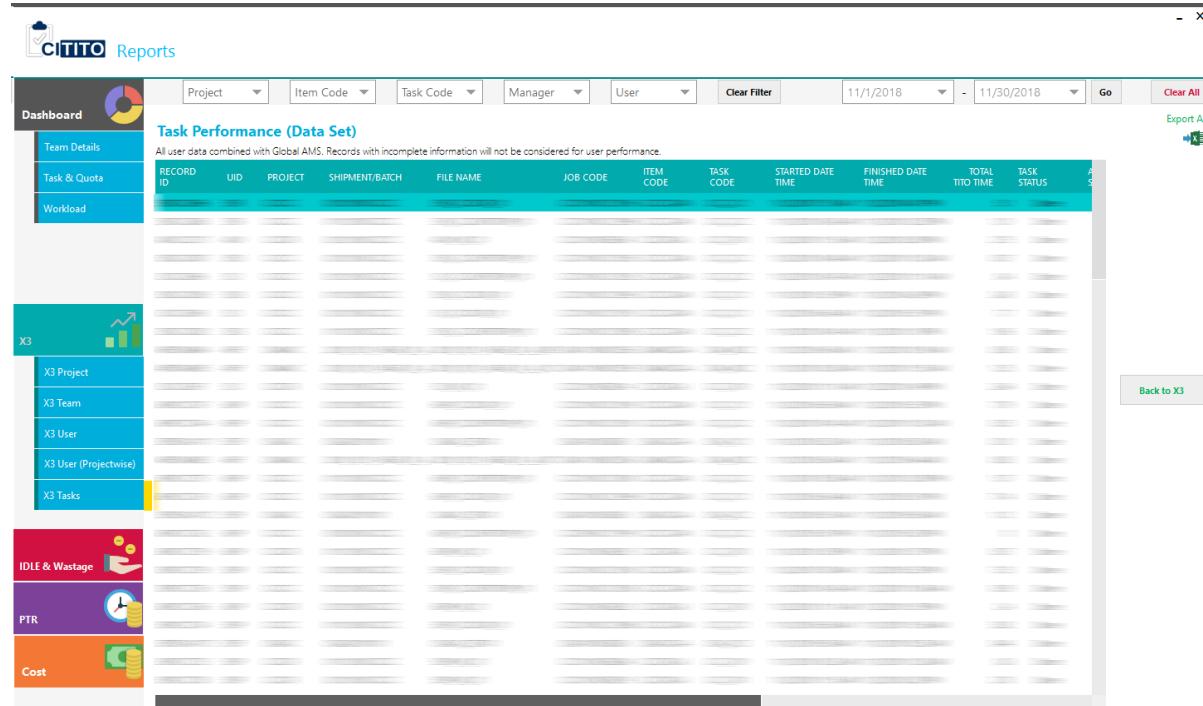
3.4.4.9. X3 Tasks

Task wise performance in each project will show here.

The screenshot shows a report titled "Summary of Task Performance (X3)". The report table has columns: PROJECT, ITEM CODE, TASK ID, DESCRIPTION, WORKED HOURS, APPROVED IDLE, X1, Y, X3, and RANK. The data shows various task entries with their respective worked hours, approved idle time, and project codes (X1, Y, X3). A sidebar on the left shows navigation links for Dashboard, Team Details, Task & Quota, Workload, X3 (with X3 Project selected), X3 Team, X3 User, X3 User (Projectwise) (which is highlighted in yellow), and X3 Tasks. A sidebar on the right shows links for IDLE & Wastage, PTR, and Cost.

PROJECT	ITEM CODE	TASK ID	DESCRIPTION	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
				179.27	0	1644300	645380.76	254.78	1
				119.65	0	1015777.93	430757.31	235.81	2
				40.84	0	214753.85	147024.5	146.07	3
				50.18	0	253692	180657.39	140.43	4
				3884.21	0	18851436	13983168.21	134.82	5
				27.01	0	128916	97237.7	132.58	6
				50.07	0	229975.2	180268.86	127.57	7
				102.06	0	464097.6	367416.33	126.31	8
				3958.68	0	16131289.66	14251245.24	113.19	9
				2128.73	0	8563579.2	7663421.13	111.75	10
				56.23	0	198303.32	202437.91	97.96	11
				42.19	0	127912.5	151876.12	84.22	12
				13.42	0	40500	48325.52	83.81	13
				243.27	0	669291.43	875786.72	76.42	14
				10.38	0	27675	37355.62	74.09	15
				49.64	0	127208.05	178668.77	71.19	16
				443.01	0	858137.14	1594848.45	53.81	17
				11.13	0	20857.5	40080.61	52.04	18
				18.89	0	33136.36	67989.02	48.74	19
				37.92	0	62143.2	136518.74	45.52	20
				3.47	0	5316.92	12498.23	42.54	21
				495.9	0	694575	1785230.22	38.91	22
				270.02	0	334972.8	972065.37	34.46	23
				48.31	0	54771.43	173920.79	31.49	24
				284.25	0	173916	1023300.32	17	25
				5.37	0	2916	19335.11	15.08	26
				0	8.39	0	0	0	27
				0	0.4	0	0	0	27

Note: For all of X3 tabs have a function to view Dataset of each task records. PIC can get all the records by clicking “View Data Set” button. These records have only task records without IDLE and waste time.



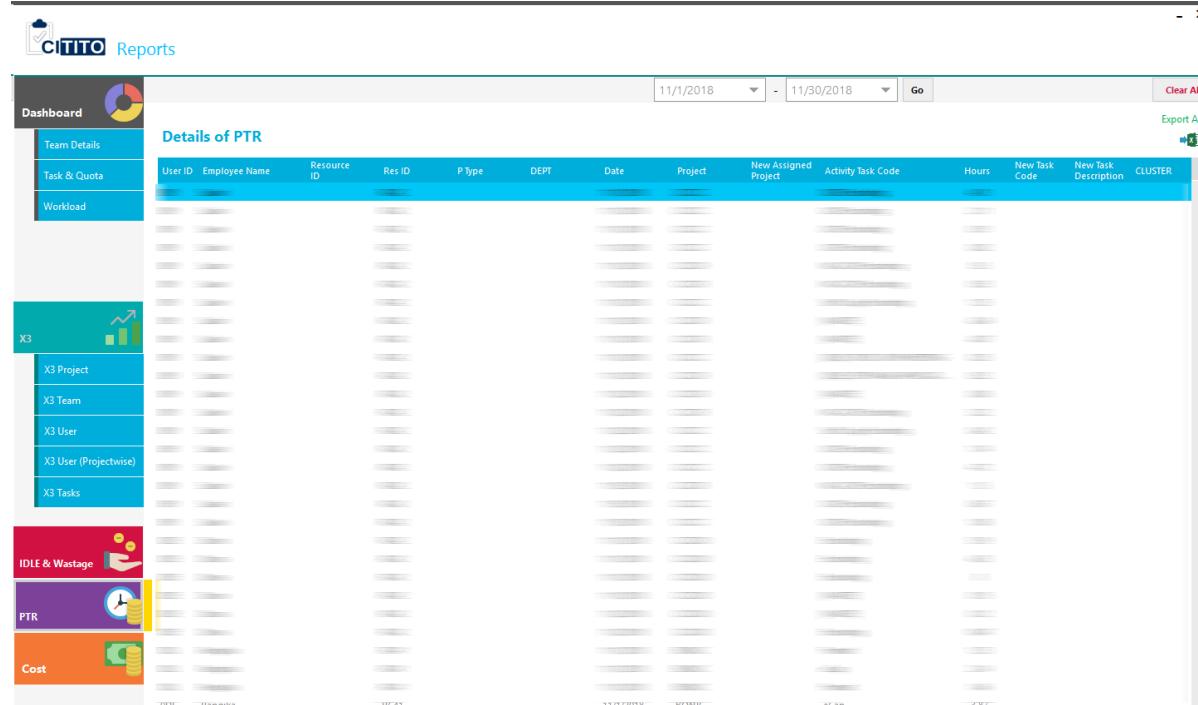
3.4.4.10. IDLE & Wastage

PIC can review each user IDLE and waste hours, capacity utilization, and total AMS and TITO hours from here.



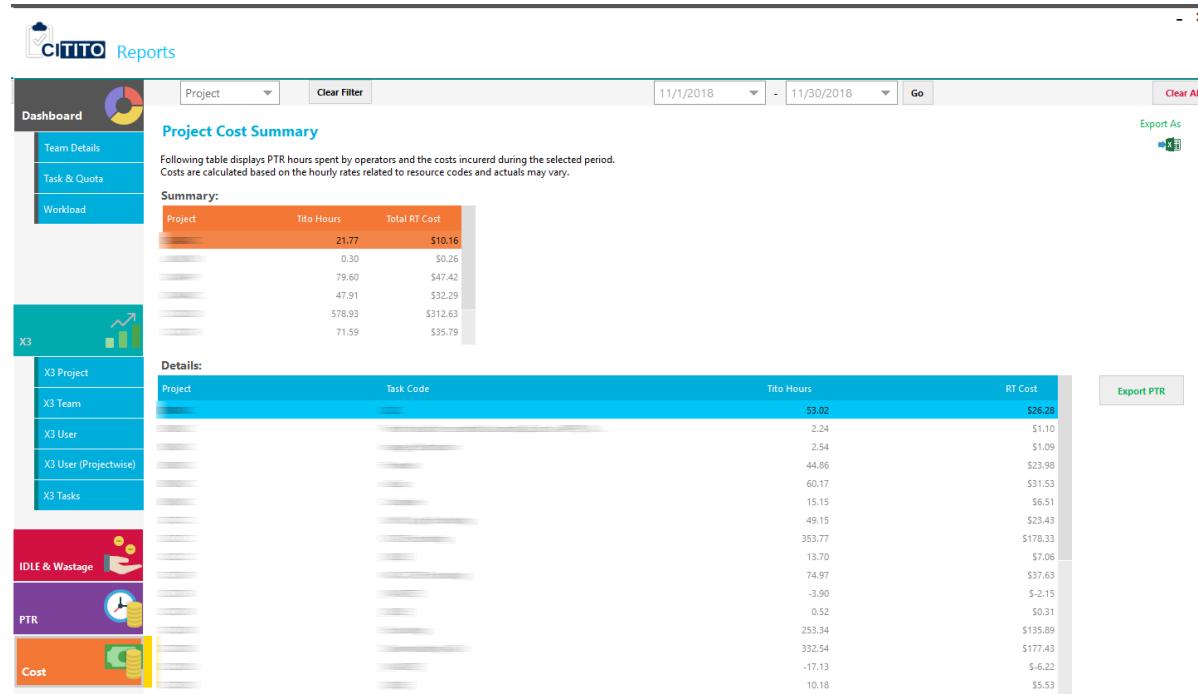
3.4.4.11. PTR

Monthly PTR can be generated from here. PIC is responsible to generate PTR from CITITO.



3.4.4.12. Cost

Monthly cost by each project will show in here.



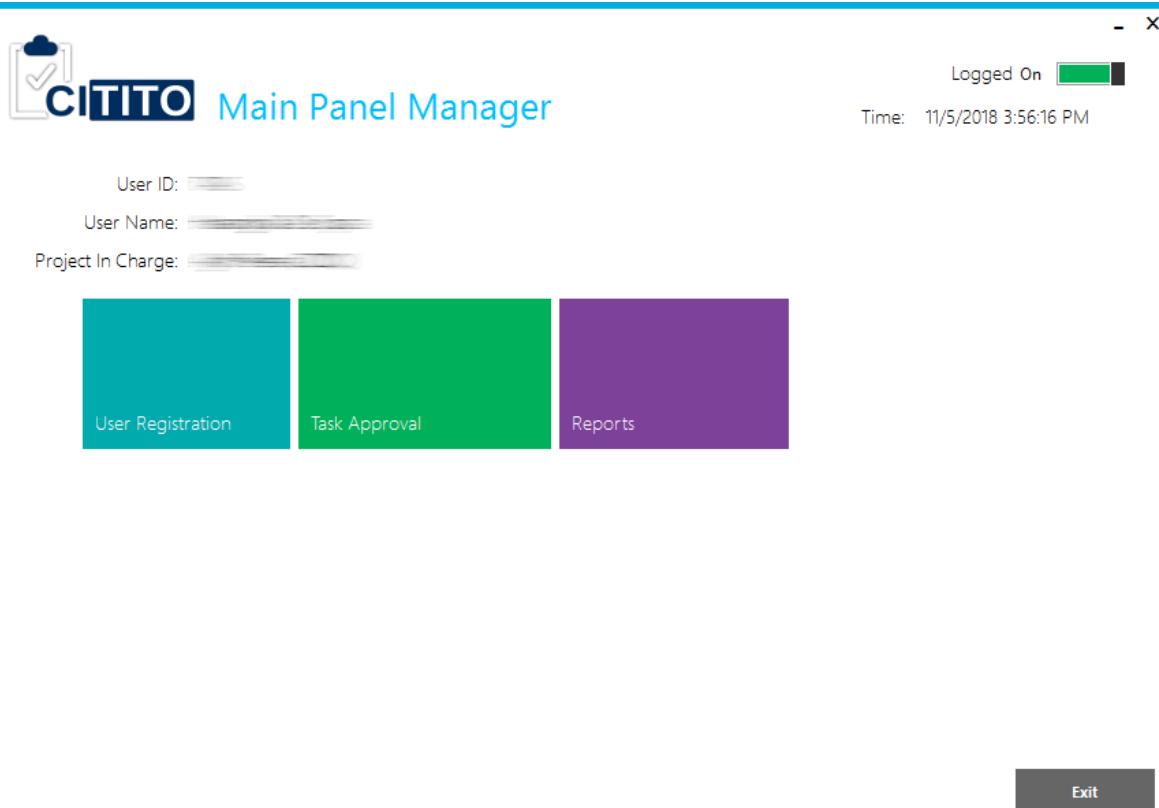
Project	Tito Hours	Total RT Cost
[REDACTED]	21.77	\$10.16
	0.30	\$0.26
	79.60	\$47.42
	47.91	\$32.29
	578.93	\$312.63
	71.59	\$35.79

Project	Task Code	Tito Hours	RT Cost
[REDACTED]	[REDACTED]	53.02	\$26.28
		2.24	\$1.10
		2.54	\$1.09
		44.86	\$23.98
		60.17	\$31.53
		15.15	\$6.51
		49.15	\$23.43
		353.77	\$178.33
		13.70	\$7.06
		74.97	\$37.63
		-3.90	\$-2.15
		0.52	\$0.31
		253.34	\$135.89
		332.54	\$177.43
		-17.13	\$-6.22
		10.18	\$5.53

3.5. Immediate Manager Panel

Once manager logged in to the system, they will prompt following window with relevant functions. The functions are,

1. User Registration
2. Task Approval
3. Reports



3.5.1. User Registration

From this window manager can register their team mates with CITITO. All the users registered by manager are “Common Users”, they could be able to Task In/Out. To register any user to the system, manager has to know about salary scale or Resource ID of relevant user.

There is a required area to fill user Shift also. As an example shift details can be extracted from Global AMS.

Project field automatically filled up when projects assigned by PIC. If manager need to assign new project to a user, the manager need to get registered under relevant project.

User Registration Panel

User

Register User

User ID:	<input type="text"/>	Bulk Import
Name:	<input type="text"/>	Add User
Password:	<input type="password"/>	Modify
Re-Password:	<input type="password"/>	Delete
System Access:	<input type="text"/>	Clear
Manager:	7AS <input type="button" value="▼"/>	Exit
Project:	<input checked="" type="checkbox"/> ACNCO <input type="checkbox"/> APPEB <input type="checkbox"/> AWWSM <input type="checkbox"/> GMMEB <input type="checkbox"/> PPCPK <input type="checkbox"/> REXEB <input type="checkbox"/> Select All	Resource ID: <input type="text"/> View Resource ID List Shift Time: From <input type="text" value="7:00:00 AM"/> to <input type="text" value="4:00:00 PM"/>

Export As 

UID	Name	Project	System Access Level	Immediate Manager	PIC	Shift	Resource ID
ODD	T.B. Gayani Kalhari	ACNCO	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC41
ODD	T.B. Gayani Kalhari	APPEB	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC41
ODD	T.B. Gayani Kalhari	GMMEB	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC41
ODD	T.B. Gayani Kalhari	REXEB	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC41
ODD	T.B. Gayani Kalhari	TNIDA	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC41
IAO	B. I. Sandamali	ACNCO	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC43
IAO	B. I. Sandamali	APPEB	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC43
IAO	B. I. Sandamali	REXEB	Common User	7AS	ZDQ	7:00 AM to 4:00 PM	RC43
IAO	B. I. Sandamali	TNIDA	Common User	7AS	ZDO	7:00 AM to 4:00 PM	RC43

User modification allows to change registered user Basic Details and Project Details.

CITITO Modify User Details

Basic Details Project Details

Current Name:	<input type="text"/>
New Name:	<input type="text"/>
<input type="checkbox"/> Modify Password	
Password:	<input type="password"/>
Re-Password:	<input type="password"/>
Resource ID:	<input type="text"/> View Resource ID List

Modify **Exit**


CITITO Modify User Details
 Basic Details

 Project Details

Remove Project:



Add Project:




3.5.2. Task Approval

User task/Idle records approval, disapproval and modification can be done from this module. Manager is responsible to check and confirm user task records are correct or not. Following functions are available for the manager:

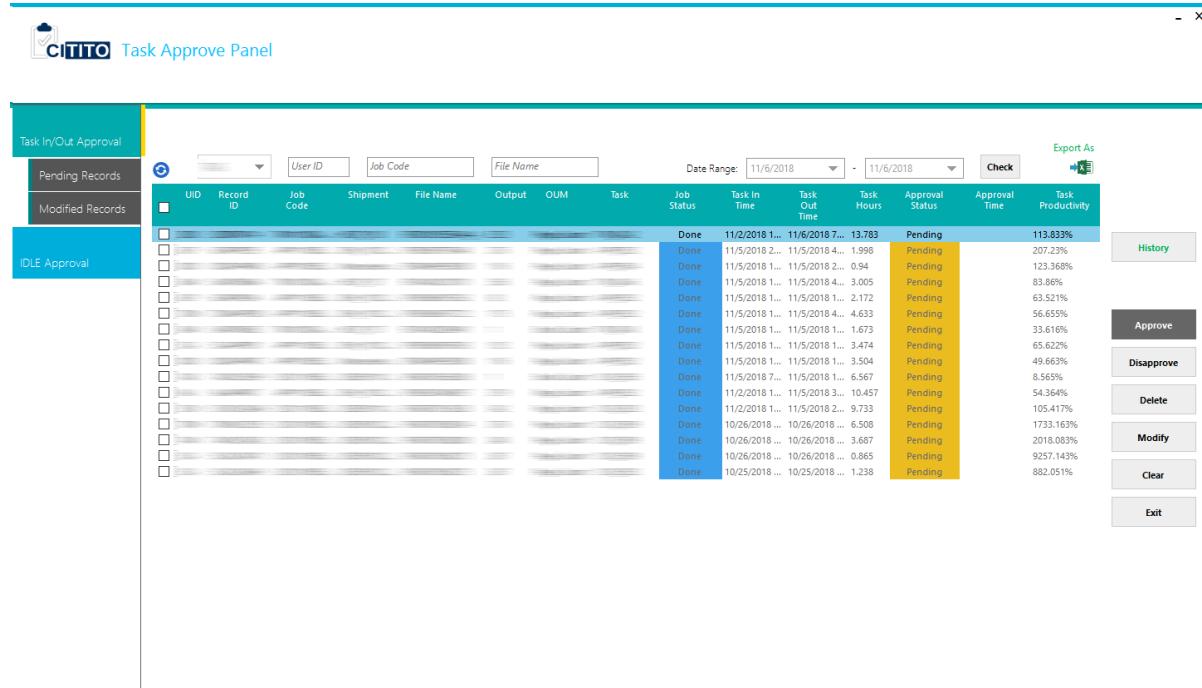
1. Task In/Out Approval
2. Pending Records
3. Modified Records
4. IDLE Approval


CITITO Task Approve Panel

Task In/Out Approval																																																																																																																																																																																																																																																										
Pending Records		Modified Records																																																																																																																																																																																																																																																								
IDLE Approval																																																																																																																																																																																																																																																										
<div style="display: flex; justify-content: space-between;"> <input type="button" value="History"/> <input type="button" value="Approve"/> <input type="button" value="Disapprove"/> <input type="button" value="Delete"/> <input type="button" value="Modify"/> <input type="button" value="Clear"/> <input type="button" value="Exit"/> </div>																																																																																																																																																																																																																																																										
<table border="1"> <thead> <tr> <th>UID</th> <th>Record ID</th> <th>Job Code</th> <th>Shipment</th> <th>File Name</th> <th>Output</th> <th>OU M</th> <th>Task</th> <th>Job Status</th> <th>Task In Time</th> <th>Task Out Time</th> <th>Task Hours</th> <th>Approval Status</th> <th>Approval Time</th> <th>Task Productivity</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/2/2018 1...</td> <td>11/6/2018 7...</td> <td>13.783</td> <td>Pending</td> <td>118.833%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 2...</td> <td>11/5/2018 4...</td> <td>1.998</td> <td>Pending</td> <td>207.23%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 1...</td> <td>11/5/2018 2...</td> <td>0.94</td> <td>Pending</td> <td>123.368%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 1...</td> <td>11/5/2018 4...</td> <td>3.005</td> <td>Pending</td> <td>83.86%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 1...</td> <td>11/5/2018 1...</td> <td>2.172</td> <td>Pending</td> <td>63.521%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 1...</td> <td>11/5/2018 4...</td> <td>4.633</td> <td>Pending</td> <td>56.655%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 1...</td> <td>11/5/2018 1...</td> <td>1.673</td> <td>Pending</td> <td>33.616%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 1...</td> <td>11/5/2018 1...</td> <td>3.474</td> <td>Pending</td> <td>65.622%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 1...</td> <td>11/5/2018 1...</td> <td>3.504</td> <td>Pending</td> <td>49.663%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/5/2018 7...</td> <td>11/5/2018 1...</td> <td>6.567</td> <td>Pending</td> <td>8.565%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/2/2018 1...</td> <td>11/5/2018 3...</td> <td>10.457</td> <td>Pending</td> <td>54.364%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>11/2/2018 1...</td> <td>11/5/2018 2...</td> <td>9.733</td> <td>Pending</td> <td>105.417%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>10/26/2018 ...</td> <td>10/26/2018 ...</td> <td>6.508</td> <td>Pending</td> <td>1733.163%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>10/26/2018 ...</td> <td>10/26/2018 ...</td> <td>3.687</td> <td>Pending</td> <td>2018.083%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>10/26/2018 ...</td> <td>10/26/2018 ...</td> <td>0.865</td> <td>Pending</td> <td>9257.143%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Done</td> <td>10/25/2018 ...</td> <td>10/25/2018 ...</td> <td>1.238</td> <td>Pending</td> <td>882.051%</td> </tr> </tbody> </table>												UID	Record ID	Job Code	Shipment	File Name	Output	OU M	Task	Job Status	Task In Time	Task Out Time	Task Hours	Approval Status	Approval Time	Task Productivity									Done	11/2/2018 1...	11/6/2018 7...	13.783	Pending	118.833%									Done	11/5/2018 2...	11/5/2018 4...	1.998	Pending	207.23%									Done	11/5/2018 1...	11/5/2018 2...	0.94	Pending	123.368%									Done	11/5/2018 1...	11/5/2018 4...	3.005	Pending	83.86%									Done	11/5/2018 1...	11/5/2018 1...	2.172	Pending	63.521%									Done	11/5/2018 1...	11/5/2018 4...	4.633	Pending	56.655%									Done	11/5/2018 1...	11/5/2018 1...	1.673	Pending	33.616%									Done	11/5/2018 1...	11/5/2018 1...	3.474	Pending	65.622%									Done	11/5/2018 1...	11/5/2018 1...	3.504	Pending	49.663%									Done	11/5/2018 7...	11/5/2018 1...	6.567	Pending	8.565%									Done	11/2/2018 1...	11/5/2018 3...	10.457	Pending	54.364%									Done	11/2/2018 1...	11/5/2018 2...	9.733	Pending	105.417%									Done	10/26/2018 ...	10/26/2018 ...	6.508	Pending	1733.163%									Done	10/26/2018 ...	10/26/2018 ...	3.687	Pending	2018.083%									Done	10/26/2018 ...	10/26/2018 ...	0.865	Pending	9257.143%									Done	10/25/2018 ...	10/25/2018 ...	1.238	Pending	882.051%
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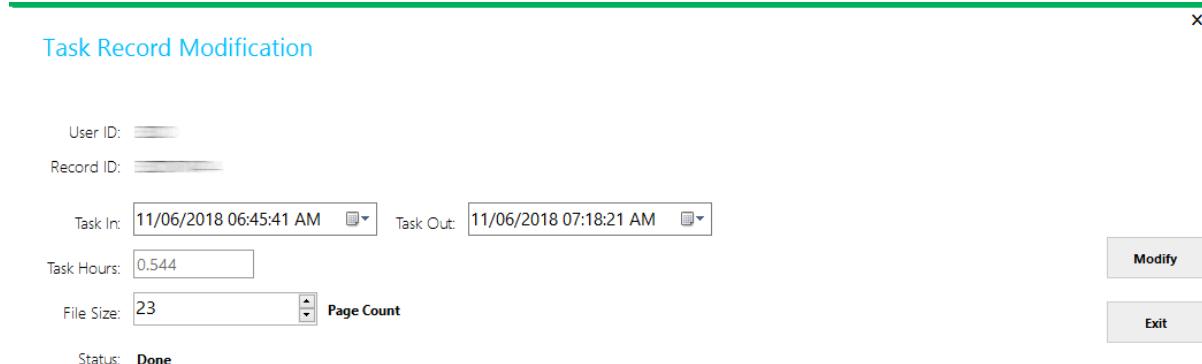
3.5.2.1. Task In/Out Approval

In this window manager able to approve/disapprove user tasks, modify task record and delete a task record. All the done status records will show in here with pending approvals.



Job Status	Task In Time	Task Out Time	Task Hours	Approval Status	Approval Time	Task Productivity
Done	11/2/2018 ...	11/6/2018 ...	13.783	Pending		113.833%
Done	11/5/2018 ...	11/5/2018 ...	0.980	Pending		207.23%
Done	11/5/2018 ...	11/5/2018 ...	3.005	Pending		123.368%
Done	11/5/2018 ...	11/5/2018 ...	2.172	Pending		83.86%
Done	11/5/2018 ...	11/5/2018 ...	4.633	Pending		63.521%
Done	11/5/2018 ...	11/5/2018 ...	1.673	Pending		56.655%
Done	11/5/2018 ...	11/5/2018 ...	3.474	Pending		33.616%
Done	11/5/2018 ...	11/5/2018 ...	3.504	Pending		65.622%
Done	11/5/2018 ...	11/5/2018 ...	6.567	Pending		49.663%
Done	11/2/2018 ...	11/5/2018 ...	10.457	Pending		8.565%
Done	11/2/2018 ...	11/5/2018 ...	9.733	Pending		54.364%
Done	10/26/2018 ...	10/26/2018 ...	6.508	Pending		105.417%
Done	10/26/2018 ...	10/26/2018 ...	3.667	Pending		1733.163%
Done	10/26/2018 ...	10/26/2018 ...	0.865	Pending		2018.083%
Done	10/25/2018 ...	10/25/2018 ...	1.238	Pending		9257.143%
						882.051%

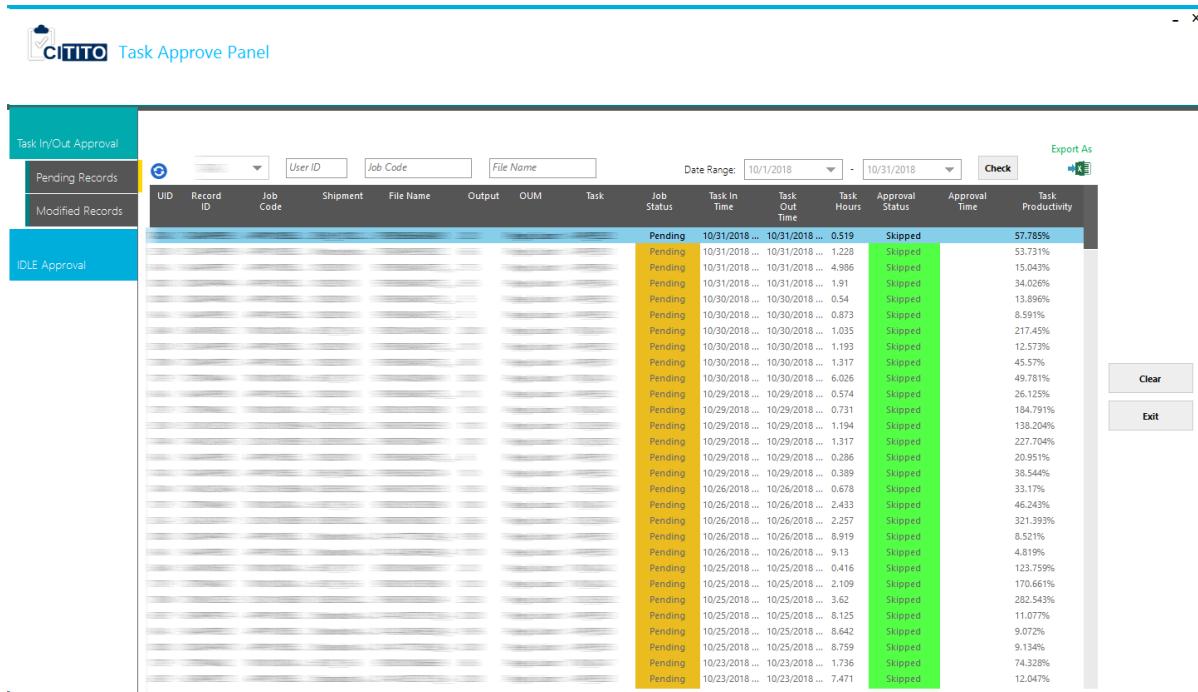
Modify task record is weighted function in this task approval window. Manager is responsible to modify any task record from this function. Once modified any task record, it should be get approval by PIC. The PIC approved task record is overwrite the user actual task record.



Job Status	Task In Time	Task Out Time	Task Hours	Approval Status	Approval Time	Task Productivity
Done	11/2/2018...	11/6/2018...	13.783	Pending	113.833%	Edit
Pending	11/5/2018...	11/5/2018...	9.381	Skipped		127.924%
Pending	11/2/2018...	11/2/2018...	3.858	Skipped		77.754%

3.5.2.2. Pending Records

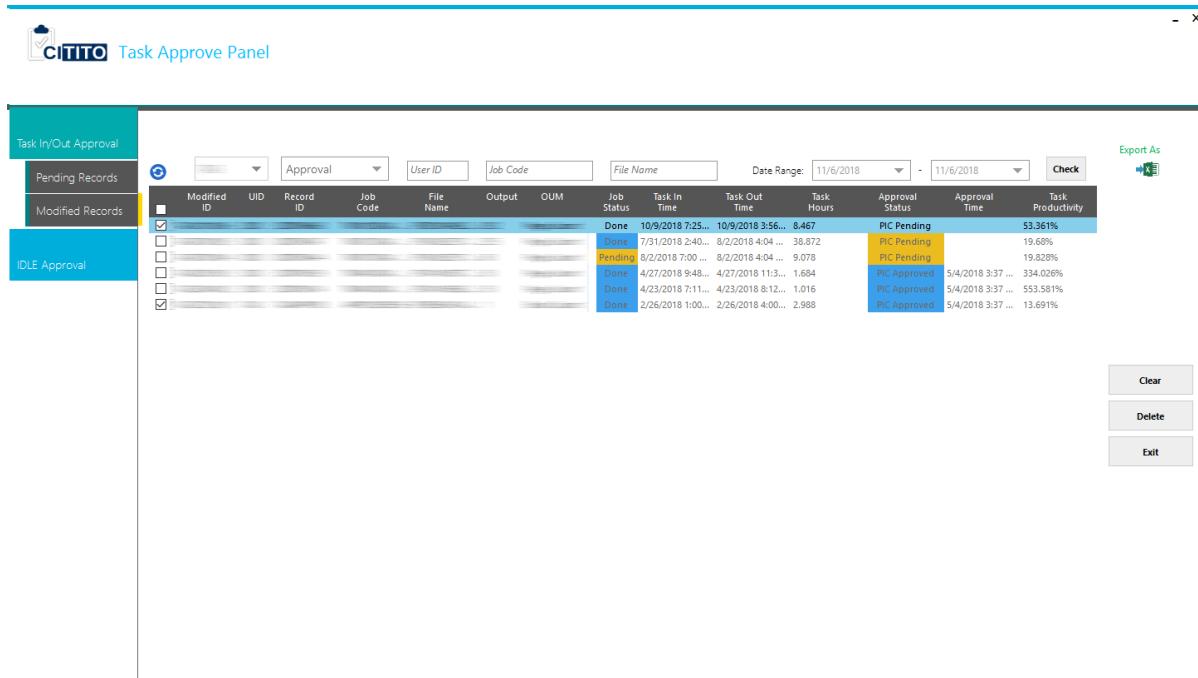
This function is given to check all employees' pending task records. It was given only for reference and not enable any function to approvals.



Pending	10/31/2018 ... 10/31/2018...	0.519	Skipped	57.785%
Pending	10/31/2018 ... 10/31/2018...	1.228	Skipped	53.731%
Pending	10/31/2018 ... 10/31/2018...	4.906	Skipped	15.043%
Pending	10/31/2018 ... 10/31/2018...	1.91	Skipped	34.026%
Pending	10/30/2018 ... 10/30/2018...	0.54	Skipped	13.896%
Pending	10/30/2018 ... 10/30/2018...	0.873	Skipped	8.591%
Pending	10/30/2018 ... 10/30/2018...	1.035	Skipped	217.45%
Pending	10/30/2018 ... 10/30/2018...	1.193	Skipped	12.573%
Pending	10/30/2018 ... 10/30/2018...	1.317	Skipped	45.57%
Pending	10/30/2018 ... 10/30/2018...	6.026	Skipped	49.781%
Pending	10/29/2018 ... 10/29/2018...	0.574	Skipped	26.125%
Pending	10/29/2018 ... 10/29/2018...	0.731	Skipped	184.791%
Pending	10/29/2018 ... 10/29/2018...	1.194	Skipped	138.204%
Pending	10/29/2018 ... 10/29/2018...	1.317	Skipped	227.704%
Pending	10/29/2018 ... 10/29/2018...	0.286	Skipped	20.951%
Pending	10/29/2018 ... 10/29/2018...	0.389	Skipped	38.544%
Pending	10/26/2018 ... 10/26/2018...	0.678	Skipped	33.17%
Pending	10/26/2018 ... 10/26/2018...	2.433	Skipped	46.243%
Pending	10/26/2018 ... 10/26/2018...	2.257	Skipped	321.393%
Pending	10/26/2018 ... 10/26/2018...	6.919	Skipped	8.521%
Pending	10/26/2018 ... 10/26/2018...	9.13	Skipped	4.819%
Pending	10/25/2018 ... 10/25/2018...	0.416	Skipped	123.759%
Pending	10/25/2018 ... 10/25/2018...	2.109	Skipped	170.661%
Pending	10/25/2018 ... 10/25/2018...	3.62	Skipped	282.543%
Pending	10/25/2018 ... 10/25/2018...	8.125	Skipped	11.077%
Pending	10/25/2018 ... 10/25/2018...	6.642	Skipped	9.072%
Pending	10/25/2018 ... 10/25/2018...	8.759	Skipped	9.134%
Pending	10/23/2018 ... 10/23/2018...	1.736	Skipped	74.328%
Pending	10/23/2018 ... 10/23/2018...	7.471	Skipped	12.047%

3.5.2.3. Modified Records

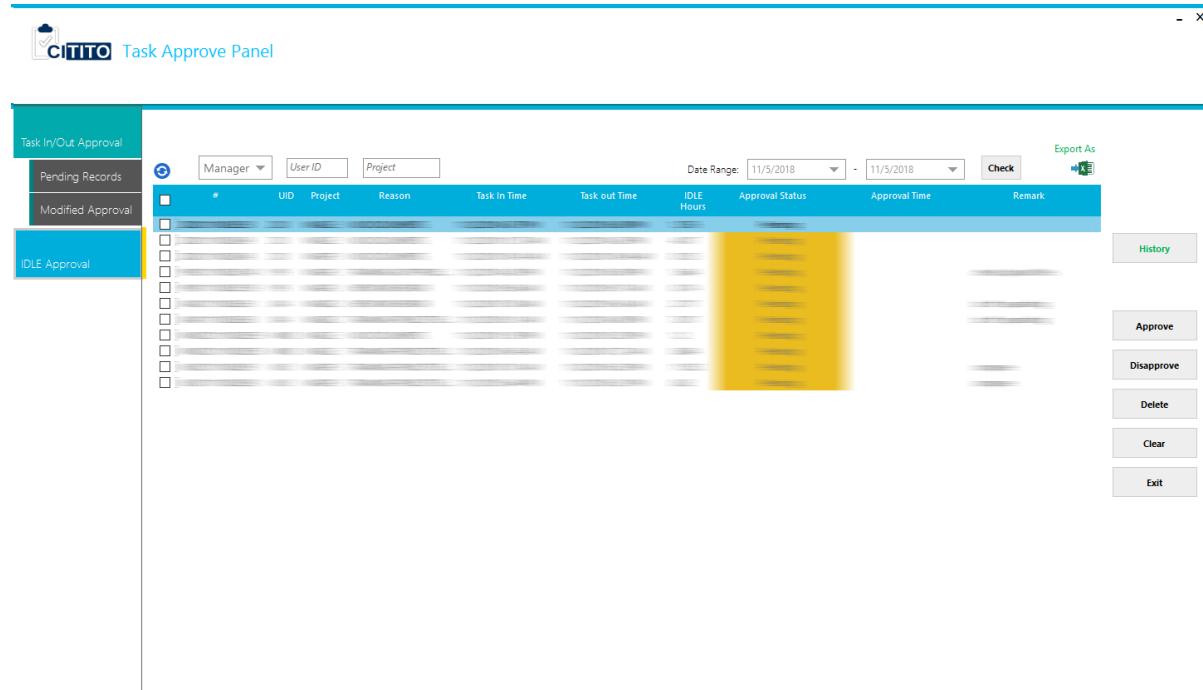
Modified record history will display here. Manager need to be get approvals from PIC to overwrite user task records otherwise it will show approval status as "PIC Pending"



Done	10/9/2018 7:25... 10/9/2018 8:36...	8.467	PIC Pending	53.61%
Done	7/31/2018 2:40... 8/2/2018 4:04...	38.872	PIC Pending	19.60%
Pending	8/2/2018 7:00... 8/2/2018 4:04...	9.078	PIC Pending	19.828%
Done	4/27/2018 9:48... 4/27/2018 11:3...	1.684	PIC Approved	5/4/2018 3:37 ... 334.026%
Done	4/23/2018 7:11... 4/23/2018 8:12...	1.016	PIC Approved	5/4/2018 3:37 ... 553.581%
Done	2/26/2018 1:00... 2/26/2018 4:00...	2.988	PIC Approved	5/4/2018 3:37 ... 13.691%

3.5.2.4. IDLE Approval

All employees' IDLE records will show on this tab.

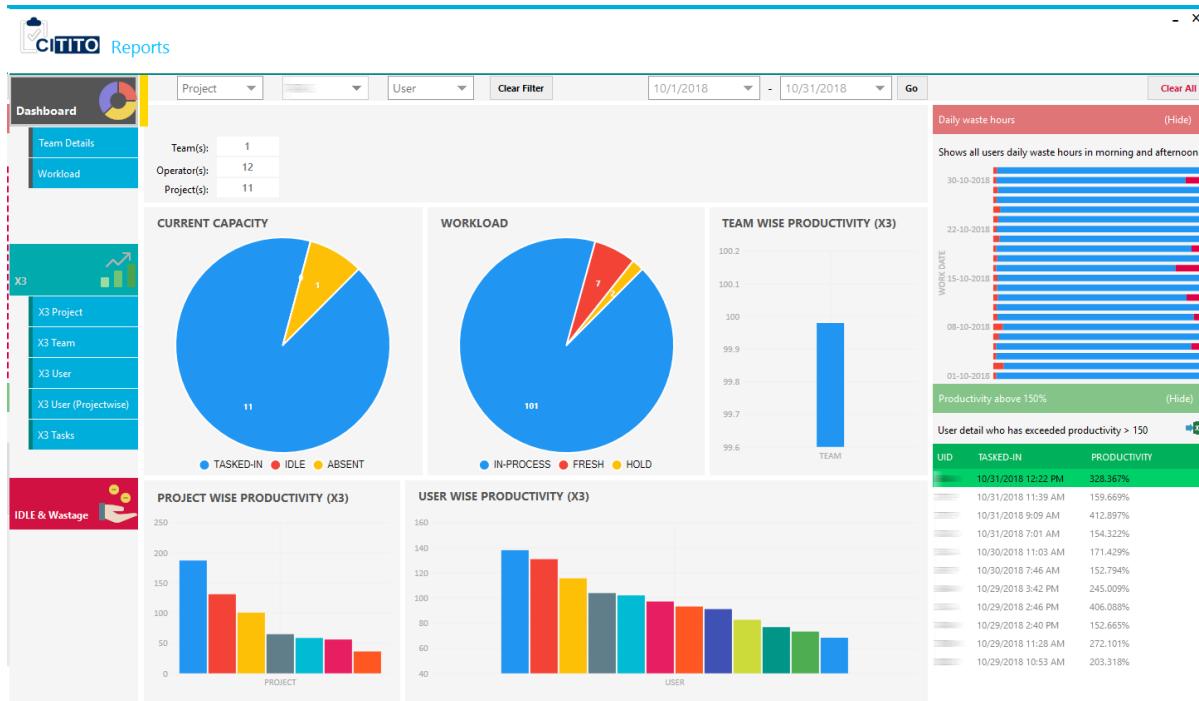


3.5.3. Reports

Manager will able to get following reports for future action.

The dashboard is shown,

1. Dashboard
2. Team Details
3. Workload
4. X3 Project
5. X3 Team
6. X3 User
7. X3 User (ProjectWise)
8. X3 Tasks
9. IDLE & Wastage



3.5.3.1. Dashboard

Summarized details for Manager, is shown in this dashboard. All the data will gather from CITITO database and Global AMS database.

1. Number of Teams
2. Operator Count
3. Project Count
4. Current Capacity
5. Workload
6. Team Wise Productivity (X3)
7. Project Wise Productivity (X3)
8. User Wise Productivity (X3)
9. Daily Waste Hours
10. Productivity above 150%

3.5.3.2. Team Details

User detail under the manager is displaying here. Project and manager name, current utilization and current utilized UID will show with Team Details summary.



TECHNICAL REPORT

Version 1.0.0.v



CITITO Reports

Dashboard Project User Clear Filter

Team Details

UID	NAME	PROJECT
1	John Doe	Project A
2	Jane Smith	Project B
3	Mike Johnson	Project C
4	Sarah Davis	Project D
5	David Wilson	Project E
6	Amy Green	Project F
7	Brian Lee	Project G
8	Christina White	Project H
9	Daniel Black	Project I
10	Ella Brown	Project J
11	Fiona Green	Project K
12	Gavin Wilson	Project L
13	Hannah Lee	Project M
14	Ivan Black	Project N
15	Jessica Green	Project O
16	Karen Wilson	Project P
17	Liam Lee	Project Q
18	Mia Black	Project R
19	Natalie Green	Project S
20	Oscar Wilson	Project T
21	Parker Lee	Project U
22	Quinn Black	Project V
23	Riley Green	Project W
24	Sophia Wilson	Project X
25	Taylor Lee	Project Y
26	Ulysses Black	Project Z

Current Utilization of Teams

TEAM	TASKED-IN	IDLE	ABSENT
Team Alpha	11	0	1

Export All

X3

X3 Project

X3 Team

X3 User

X3 User (Projectwise)

X3 Tasks

IDLE & Wastage

Utilization Details by UID

TASKED-IN	IDLE	ABSENT
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0

3.5.3.3. Workload

Manager can review project wise all the Registered, Completed, In Process, Fresh and Hold Volumes.

CITITO Reports

Dashboard Team Details Workload X3 X3 Project X3 Team X3 User X3 User (Projectwise) X3 Tasks IDLE & Wastage

Project Clear Filter Export A

Workload Summary

PROJECT	REGISTERED VOLUME	COMPLETED VOLUME	IN PROCESS	FRESH	HOLD
	11	8	2	1	0
	17	17	0	0	0
	30	24	6	0	0
	88	84	4	0	0
	86	73	12	1	0
	65	64	0	1	0
	14	14	0	0	0
	768	722	45	1	0
	120	104	16	0	0
	18	17	1	0	0
	1301	1282	16	1	2

[View Data Set](#)

3.5.3.4. X3 Project

Each project wise performance is showing X3 Project tab

CITITO Reports

Summary of Project Performance (X3)
Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

PROJECT	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
	55.2	0	221812.57	196716	111.62	1
	102.37	0	253008	368541.86	68.65	2
	32.55	0	73956.09	117170.14	63.12	3

X3

- X3 Project
- X3 Team
- X3 User
- X3 User (Projectwise)
- X3 Tasks

IDLE & Wastage

[View Data Set](#)

3.5.3.5. X3 Team

Manager owned team performance will show here.

CITITO Reports

Summary of Team Performance (X3)
Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

TEAM	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
	190.12	0	548776.66	684428	60.18	1

X3

- X3 Project
- X3 Team
- X3 User
- X3 User (Projectwise)
- X3 Tasks

IDLE & Wastage

[View Data Set](#)

3.5.3.6. X3 User

All the user performance under the Manager will show X3 User tab.

CITITO Reports

Summary of User Performance (X3)
Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

UID	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
	9.65	0	92571.43	34753	266.37	1
	18.15	0	64928.13	65348	99.36	2
	9.31	0	31802.4	33522	94.87	3
	18.53	0	59751	66702	89.58	4
	18.24	0	50436	65669	76.8	5
	19.04	0	47347.2	68537	69.08	6
	22.86	0	54105.69	82279	65.76	7
	27.39	0	64313.02	98615	65.22	8
	18.5	0	42579	66597	63.94	9
	19.14	0	37213.2	68895	54.01	10
	9.31	0	3729.6	33511	11.13	11

View Data Set

3.5.3.7. X3 User (ProjectWise)

Every employee project wise performance will show here.

CITITO Reports

Summary of User Projectwise (X3)
Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

UID	PROJECT	WORKED HOURS	APPROVED IDLE	X1	Y	X3
		19.04	0	47347.2	68537	69.08
		9.31	0	31802.4	33522	94.87
		9.65	0	92571.43	34753	266.37
		12.69	0	39160.8	45672.81	85.74
		5.55	0	11275.2	19996.19	56.39
		17.7	0	57726	63729.4	90.58
		0.83	0	2025	2972.6	68.12
		19.14	0	37213.2	68895	54.01
		9.33	0	28728	33581	85.55
		9.17	0	13851	33016	41.95
		5.86	0	7300.8	21093.65	34.61
		17	0	46804.89	61185.35	76.5
		27.39	0	64313.02	98615	65.22
		18.15	0	64928.13	65348	99.36
		9.31	0	3729.6	33511	11.13

View Data Set

3.5.3.8. X3 Tasks

Task wise performance in each project will show here.

CITITO Reports

Task Code 11/1/2018 11/30/2018 Export As 

Summary of Task Performance (X3)
Only the records with a status of DONE are considered for X3. PENDING TITO records and their work-hours will be carried forward.

PROJECT	ITEM CODE	TASK ID	DESCRIPTION	WORKED HOURS	APPROVED IDLE	X1	Y	X3	RANK
				9.65	0	92571.43	34753	266.37	1
				1.45	0	13446	5223.42	257.42	2
				3.17	0	23050.29	11410.58	202.01	3
				2.96	0	18144	10665.26	170.12	4
				9.27	0	33048	33357	99.07	5
				5.63	0	19368	20254.15	95.62	6
				9.16	0	30067.2	32987	91.15	7
				50.46	0	152172	181644.83	83.77	8
				3.22	0	8964	11605.35	77.24	9
				0.77	0	2025	2759.08	73.39	10
				9.09	0	22464	32735	68.62	11
				0.83	0	2025	2972.6	68.12	12
				5.55	0	11275.2	19996.19	56.39	13
				14.41	0	27396	51883.38	52.8	14
				31.88	0	54072	114759.49	47.12	15
				12.92	0	21678.55	46494.5	46.63	16
				9.17	0	13851	33016	41.95	17
				1.38	0	1814.4	4965.15	36.54	18
				9.15	0	1344.6	32946	4.08	19

View Data Set 

Note: For all of X3 tabs have a function to view Dataset of each task records. PIC can get all the records by clicking “View Data Set” button. These records have only task records without IDLE and waste time.

CITITO Reports

Project 11/1/2018 11/30/2018 Export As 

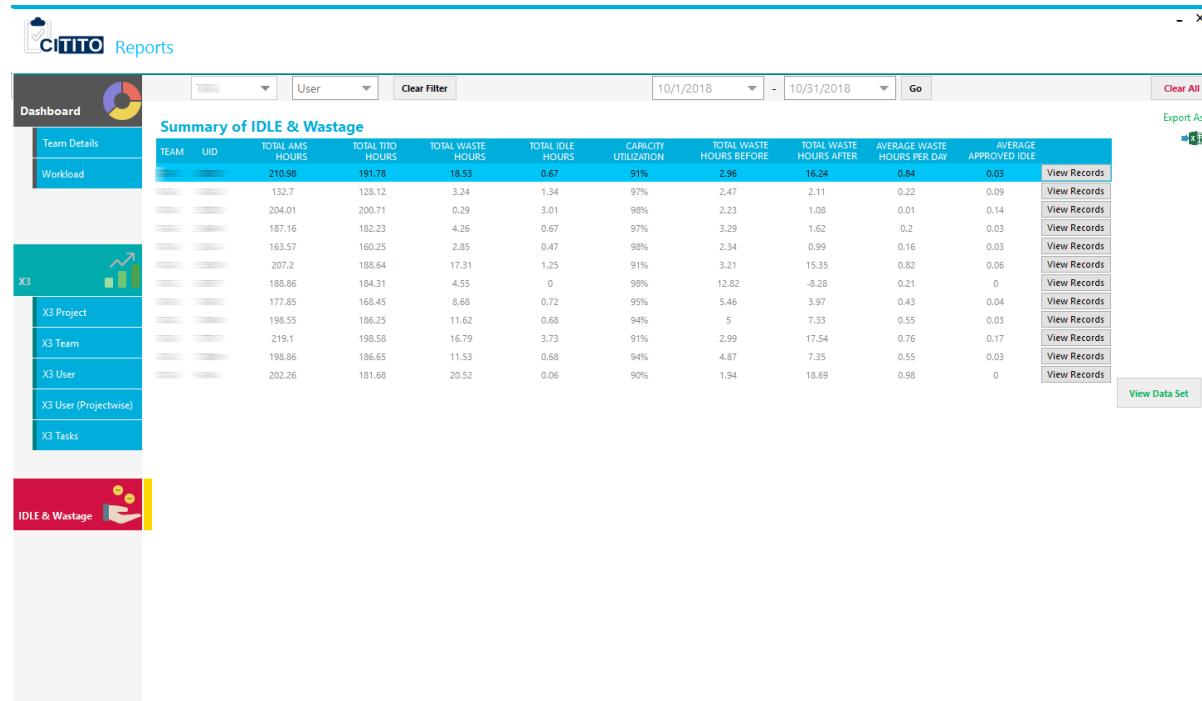
Task Performance (Data Set)
All user data combined with Global AMS. Records with incomplete information will not be considered for user performance.

RECORD ID	UID	PROJECT	SHIPMENT/BATCH	FILE NAME	JOB CODE	ITEM CODE	TASK CODE	STARTED DATE TIME	FINISHED DATE TIME	TOTAL TITO TIME	TASK STATUS	APPROVAL STATUS
								10/3/2018 3:56 PM	11/2/2018 11:12 AM	7.11	Done	Approved
								11/1/2018 2:59 PM	11/2/2018 2:37 PM	8.71	Done	Approved
								10/31/2018 3:31 PM	11/1/2018 12:08 PM	5.55	Done	Approved
								10/31/2018 9:57 AM	11/5/2018 9:43 AM	4.3	Done	Approved
								11/5/2018 9:43 AM	11/5/2018 10:05 AM	0.35	Done	Approved
								11/1/2018 1:58 PM	11/2/2018 12:08 PM	7.29	Done	Approved
								11/1/2018 8:57 PM	11/1/2018 12:07 PM	3.16	Done	Approved
								11/2/2018 8:47 AM	11/2/2018 10:01 AM	1.23	Done	Approved
								11/1/2018 7:07 AM	11/1/2018 12:05 PM	4.96	Done	Approved
								11/1/2018 11:16 PM	11/1/2018 1:55 PM	0.64	Done	Approved
								11/5/2018 7:09 AM	11/5/2018 11:19 AM	4.17	Done	Approved
								11/2/2018 12:02 PM	11/2/2018 4:01 PM	3.97	Done	Approved
								11/2/2018 7:06 AM	11/2/2018 8:47 AM	1.68	Done	Approved
								11/2/2018 9:35 AM	11/2/2018 11:33 AM	1.95	Done	Approved
								11/2/2018 10:01 AM	11/2/2018 12:00 PM	1.98	Done	Approved
								11/1/2018 12:06 PM	11/1/2018 4:04 PM	3.97	Done	Approved
								11/1/2018 2:13 PM	11/2/2018 9:35 AM	4.27	Done	Approved
								11/5/2018 7:14 AM	11/5/2018 10:25 AM	3.19	Done	Approved
								11/1/2018 6:29 AM	11/1/2018 8:57 AM	2.47	Done	Approved
								11/1/2018 1:20 PM	11/1/2018 1:16 PM	1.15	Done	Approved
								11/1/2018 1:22 PM	11/1/2018 3:14 PM	2.88	Done	Approved
								11/1/2018 11:42 AM	11/1/2018 2:13 PM	2.52	Done	Approved
								11/1/2018 3:48 PM	11/2/2018 1:50 PM	6.93	Done	Approved
								11/1/2018 11:13 AM	11/1/2018 12:21 PM	1.15	Done	Approved
								11/2/2018 3:06 PM	11/2/2018 4:00 PM	0.85	Done	Approved
								11/2/2018 1:53 PM	11/2/2018 4:00 PM	2.11	Done	Approved
								11/2/2018 7:54 AM	11/2/2018 8:46 AM	0.86	Done	Approved

Back to X3 

3.5.3.9. IDLE & Wastage

Manager can review each user IDLE and waste hours, capacity utilization, and total AMS and TITO hours from here.



TEAM	UID	TOTAL AMS HOURS	TOTAL TITO HOURS	TOTAL WASTE HOURS	TOTAL IDLE HOURS	CAPACITY UTILIZATION	TOTAL WASTE HOURS BEFORE	TOTAL WASTE HOURS AFTER	AVERAGE WASTE HOURS PER DAY	AVERAGE APPROVED IDLE
	210.98	191.78	18.53	0.67	91%	2.96	16.24	0.64	0.03	View Records
	132.7	128.12	3.24	1.34	97%	2.47	2.11	0.22	0.09	View Records
	204.01	200.71	0.29	3.01	98%	2.23	1.08	0.01	0.14	View Records
	187.16	182.23	4.26	0.67	97%	3.29	1.62	0.2	0.03	View Records
	163.57	160.25	2.85	0.47	98%	2.34	0.99	0.16	0.03	View Records
	207.2	188.64	17.31	1.25	91%	3.21	15.35	0.82	0.06	View Records
	188.86	184.31	4.55	0	98%	12.82	-8.28	0.21	0	View Records
	177.85	168.45	8.68	0.72	95%	5.46	3.97	0.43	0.04	View Records
	198.55	186.25	11.62	0.68	94%	5	7.33	0.55	0.03	View Records
	219.1	198.58	16.79	3.73	91%	2.99	17.54	0.76	0.17	View Records
	198.86	186.65	11.53	0.68	94%	4.87	7.35	0.55	0.03	View Records
	202.26	181.68	20.52	0.06	90%	1.94	18.69	0.98	0	View Records

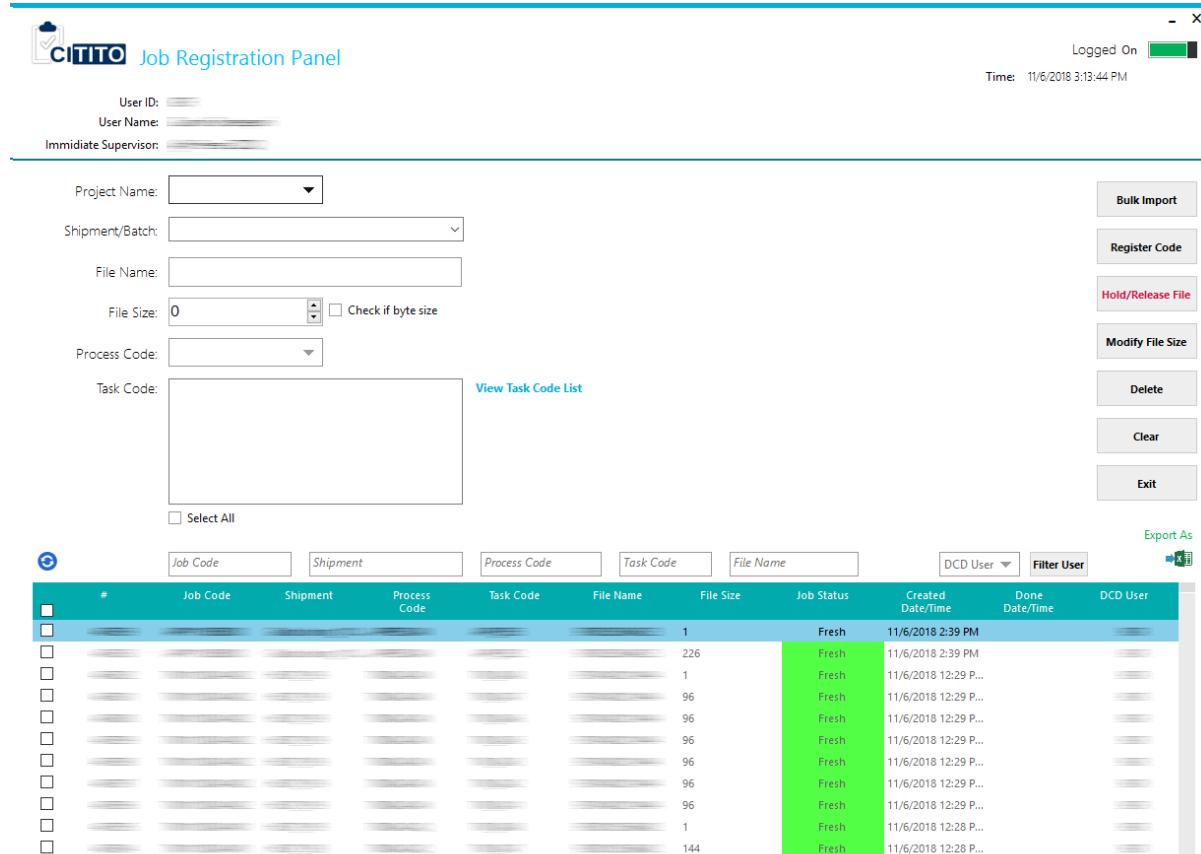
View Record function in each record will show all based records to the summary.



WORKDATE	TEAM	UID	LOGIN	LOGOUT	FIRST TASKED-IN	LAST TASKED-OUT	WASTE BEFORE FIRST TITO	WASTE AFTER LAST TITO	TOTAL WASTE	APPROVED IDLE
10/1/2018	██████	██████████	10/1/2018 7:13 AM	10/1/2018 4:18 PM	10/1/2018 7:15 AM	10/1/2018 4:05 PM	0.04	0.22	0.25	0
10/2/2018	██████	██████████	10/2/2018 6:55 AM	10/2/2018 4:19 PM	10/2/2018 7:07 AM	10/2/2018 4:02 PM	0.24	0.27	0.52	0
10/3/2018	██████	██████████	10/3/2018 7:21 AM	10/3/2018 4:11 PM	10/3/2018 7:30 AM	10/3/2018 4:09 PM	0.16	0.03	0.19	0
10/4/2018	██████	██████████	10/4/2018 6:49 AM	10/4/2018 6:24 PM	10/4/2018 7:10 AM	10/4/2018 4:09 PM	0.34	2.26	2.6	0
10/5/2018	██████	██████████	10/5/2018 7:07 AM	10/5/2018 4:19 PM	10/5/2018 7:13 AM	10/5/2018 4:00 PM	0.1	0.31	0.41	0
10/6/2018	██████	██████████	10/6/2018 7:05 AM	10/8/2018 4:26 PM	10/8/2018 7:11 AM	10/8/2018 4:13 PM	0.1	0.22	0.32	0
10/9/2018	██████	██████████	10/9/2018 6:59 AM	10/9/2018 6:10 PM	10/9/2018 7:04 AM	10/9/2018 4:05 PM	0.09	2.09	2.18	0
10/10/2018	██████	██████████	10/10/2018 6:54 AM	10/10/2018 4:27 PM	10/10/2018 7:00 AM	10/10/2018 4:07 PM	0.09	0.34	-0.24	0.67
10/11/2018	██████	██████████	10/11/2018 6:57 AM	10/11/2018 6:19 PM	10/11/2018 7:21 AM	10/11/2018 4:09 PM	0.4	2.16	2.57	0
10/12/2018	██████	██████████	10/12/2018 6:55 AM	10/12/2018 4:16 PM	10/12/2018 7:10 AM	10/12/2018 4:05 PM	0.24	0.19	0.43	0
10/15/2018	██████	██████████	10/15/2018 6:55 AM	10/15/2018 4:05 PM	10/15/2018 7:00 AM	10/15/2018 4:03 PM	0.09	0.04	0.13	0
10/16/2018	██████	██████████	10/16/2018 7:14 AM	10/16/2018 6:04 PM	10/16/2018 7:20 AM	10/16/2018 4:12 PM	0.1	1.86	1.97	0
10/17/2018	██████	██████████	10/17/2018 6:54 AM	10/17/2018 4:15 PM	10/17/2018 7:08 AM	10/17/2018 4:03 PM	0.23	0.19	0.42	0
10/18/2018	██████	██████████	10/18/2018 7:04 AM	10/18/2018 6:17 PM	10/18/2018 7:07 AM	10/18/2018 4:05 PM	0.05	2.19	2.24	0
10/19/2018	██████	██████████	10/19/2018 7:03 AM	10/19/2018 4:34 PM	10/19/2018 7:06 AM	10/19/2018 4:09 PM	0.05	0.41	0.46	0
10/22/2018	██████	██████████	10/22/2018 7:14 AM	10/22/2018 4:15 PM	10/22/2018 7:16 AM	10/22/2018 4:08 PM	0.04	0.11	0.14	0
10/23/2018	██████	██████████	10/23/2018 7:11 AM	10/23/2018 4:12 PM	10/23/2018 7:13 AM	10/23/2018 4:05 PM	0.04	0.12	0.17	0
10/25/2018	██████	██████████	10/25/2018 7:14 AM	10/25/2018 4:22 PM	10/25/2018 7:17 AM	10/25/2018 4:02 PM	0.05	0.33	0.37	0
10/26/2018	██████	██████████	10/26/2018 7:08 AM	10/26/2018 4:25 PM	10/26/2018 7:14 AM	10/26/2018 4:09 PM	0.1	0.28	0.38	0
10/29/2018	██████	██████████	10/29/2018 6:55 AM	10/29/2018 4:19 PM	10/29/2018 7:10 AM	10/29/2018 4:03 PM	0.26	0.28	0.54	0
10/30/2018	██████	██████████	10/30/2018 6:59 AM	10/30/2018 6:14 PM	10/30/2018 7:05 AM	10/30/2018 4:04 PM	0.1	2.17	2.27	0
10/31/2018	██████	██████████	10/31/2018 7:14 AM	10/31/2018 12:02 PM	10/31/2018 7:17 AM	10/31/2018 11:52 AM	0.05	0.17	0.21	0

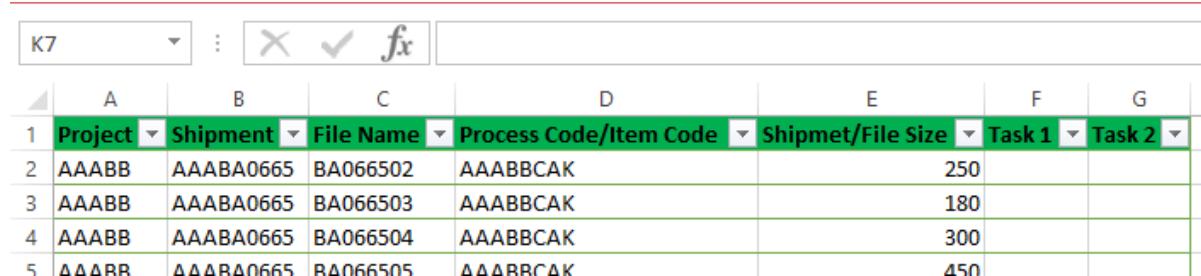
3.6. DCD Panel

All the job registration part will be done by DCD member. Once PIC create and assign projects to the DCD member, DCD account owner responsible to make jobs to the production.



#	Job Code	Shipment	Process Code	Task Code	File Name	File Size	Job Status	Created Date/Time	Done Date/Time	DCD User
1						1	Fresh	11/6/2018 2:39 PM		
2						226	Fresh	11/6/2018 2:39 PM		
3						1	Fresh	11/6/2018 12:29 P...		
4						96	Fresh	11/6/2018 12:29 P...		
5						96	Fresh	11/6/2018 12:29 P...		
6						96	Fresh	11/6/2018 12:29 P...		
7						96	Fresh	11/6/2018 12:29 P...		
8						96	Fresh	11/6/2018 12:29 P...		
9						1	Fresh	11/6/2018 12:28 P...		
10						144	Fresh	11/6/2018 12:28 P...		

In advance, DCD user can take bulk import function to register job code as once. Template is structure as given below.



A	B	C	D	E	F	G
Project	Shipment	File Name	Process Code/Item Code	Shipment/File Size	Task 1	Task 2
AAABB	AAABA0665	BA066502	AAABBCAK	250		
AAABB	AAABA0665	BA066503	AAABBCAK	180		
AAABB	AAABA0665	BA066504	AAABBCAK	300		
AAAARR	AAAARR0665	RA066505	AAAARRCAK	450		

DCD user must be fill Project, Shipmen, Filename, Item Code, File Size and Task Codes (CITITO registered). Once template is prepared correctly, DCD user can use following import window by clicking Bulk Import button.

 CITITO Bulk Job Import

Import Sheet

Project	Shipment	File Name	Process Code/Item Code	Shipmet/File Size	Task 1	Task 2
AAABB	AAABA0665	BA066502	AAABBCAK	250		
AAABB	AAABA0665	BA066503	AAABBCAK	180		
AAABB	AAABA0665	BA066504	AAABBCAK	300		
AAABB	AAABA0665	BA066505	AAABBCAK	450		
AAABB	AAABA0665	BA066506	AAABBCAK	220		
AAABB	AAABA0665	BA066507	AAABBCAK	150		
AAABB	AAABA0665	BA066508	AAABBCAK	450		
AAABB	AAABA0665	BA066509	AAABBCAK	400		
AAABB	AAABA0665	BA066501	AAABBCAK	225		

 Save Exit

Deletion can do on record by record. Make sure only the fresh status record can be deleted.

Modify option given for file size modification only for fresh and pending status records.

 File Size Modify

Row ID: # 471249

File Size:

 Modify

Additionally DCD user can keep hold or release file using “Hold/Release File” button.

3.7. Employee Panel (Task In/Out)

This is the window that all the common users are using to record their tasks and IDLEs. It always execute on a time based scenario. If user tasked in to job it automatically locked the task and run task time until user tasked out.

Before user task in to the job, he/she have both Shipment Name and File Name or Job Code (TITO Code).

For each and every task record generates Task Productivity, it may help to measure users' attention/productivity to the relevant task. Task Productivity calculation is:

$$\text{Task Productivity \%} = \left(\frac{\text{Output}}{\text{Quota}} \times \frac{9}{\text{Task Time}} \right) \times 100$$

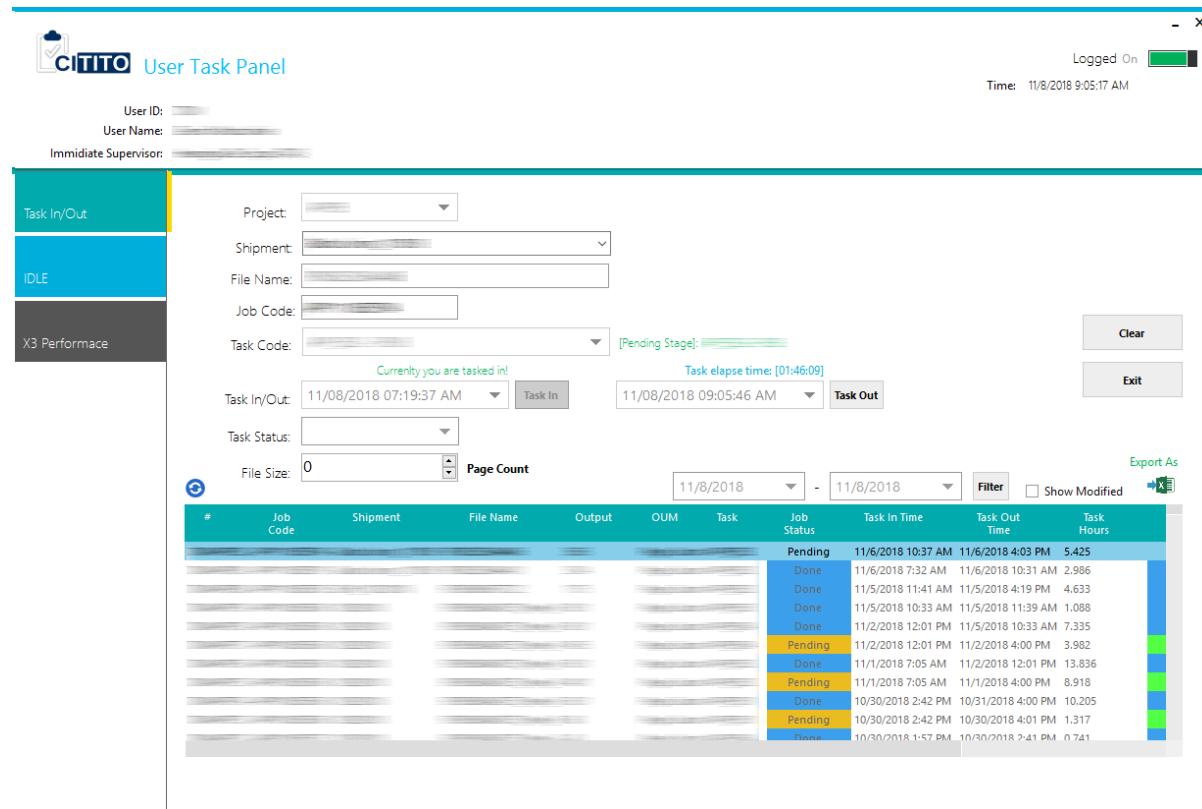
Note: For manual calculation, template has been placed on source path called “Manual Calculation X3”. This only for task productivity, for the final X3, it will add waste and IDLE hour records. Shift time taken as 9 hours and instruct PICs to update all the matrixes for 9hours quota.

User task panel have three tabs called,

1. Task In/Out
2. IDLE
3. X3 Performance

3.7.1. Task In/Out

Commonly this tab is shown to task in and out for the user. This is the default window once common user is logged in to CITITO system. Only done status approved task records will nominate to the X3.



#	Job Code	Shipment	File Name	Output	OUM	Task	Job Status	Task In Time	Task Out Time	Task Hours
							Pending	11/6/2018 10:37 AM	11/6/2018 4:03 PM	5.425
							Done	11/6/2018 7:32 AM	11/6/2018 10:31 AM	2.986
							Done	11/5/2018 11:41 AM	11/5/2018 4:19 PM	4.633
							Done	11/5/2018 10:33 AM	11/5/2018 11:39 AM	1.088
							Done	11/2/2018 12:01 PM	11/5/2018 10:33 AM	7.335
							Pending	11/2/2018 12:01 PM	11/2/2018 4:00 PM	3.982
							Done	11/1/2018 7:05 AM	11/2/2018 12:01 PM	13.836
							Pending	11/1/2018 7:05 AM	11/1/2018 4:00 PM	8.918
							Done	10/30/2018 2:42 PM	10/31/2018 4:00 PM	10.205
							Pending	10/30/2018 2:42 PM	10/30/2018 4:01 PM	1.317
							Done	10/30/2018 1:57 PM	10/30/2018 2:41 PM	0.741

“Show Modified” check box is given to retrieve modified task records by manager. Record ID will highlight if it is modified.

3.7.2. IDLE

User can apply their IDLE records to CITITO from here. IDLE records creation is restricted to 5 days maximum and freely available time span (not tasked in period within AMS hours).

IDLE remark is restricted to maximum 20 characters. Only approved IDLE will nominate to the User X3.

CITITO User Task Panel

User ID: [REDACTED]
 User Name: [REDACTED]
 Immediate Supervisor: [REDACTED]

Logged On 
 Time: 11/8/2018 9:05:17 AM

Task In/Out	Project: <input type="text"/>																																																																																																																		
IDLE	Task In: 11/08/2018 09:58:51 AM <input type="button" value="..."/>	Task Out: 11/08/2018 09:58:51 AM <input type="button" value="..."/>	Reason: <input type="text"/>			<input type="button" value="File Task"/>	<input type="button" value="Clear"/>																																																																																																												
X3 Performance	IDLE Hours: 0					<input type="button" value="Exit"/>	<input type="button" value=""/>																																																																																																												
	Remark: <input type="text"/> (20 characters left)					<input type="button" value="Export As"/>																																																																																																													
	<table border="1"> <thead> <tr> <th>#</th> <th>Project</th> <th>Reason</th> <th>Task In Time</th> <th>Task out Time</th> <th>IDLE Hours</th> <th>Approval Status</th> <th>Approval Time</th> <th>Remark</th> </tr> </thead> <tbody> <tr><td>[REDACTED]</td><td>TRAINING NOT PR...</td><td>10/10/2018 2:21 PM</td><td>10/10/2018 3:02 PM</td><td>0.683</td><td>Approved</td><td>10/23/2018 2:15 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>NO DOCUMENTS</td><td>9/20/2018 7:00 AM</td><td>9/20/2018 7:24 AM</td><td>0.4</td><td>Approved</td><td>9/28/2018 4:10 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>NO DOCUMENTS</td><td>9/19/2018 11:11 AM</td><td>9/19/2018 4:00 PM</td><td>4.817</td><td>Approved</td><td>9/28/2018 4:10 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>NO DOCUMENTS</td><td>9/19/2018 7:00 AM</td><td>9/19/2018 10:40 AM</td><td>3.667</td><td>Approved</td><td>9/28/2018 4:10 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>TRAINING NOT PR...</td><td>9/18/2018 9:44 PM</td><td>9/18/2018 10:00 PM</td><td>0.267</td><td>Approved</td><td>9/28/2018 4:10 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>NO DOCUMENTS</td><td>9/18/2018 3:14 PM</td><td>9/18/2018 4:00 PM</td><td>0.767</td><td>Approved</td><td>9/28/2018 4:10 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>NO DOCUMENTS</td><td>9/18/2018 12:16 PM</td><td>9/18/2018 12:32 PM</td><td>0.267</td><td>Approved</td><td>9/28/2018 4:10 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>TRAINING PROJECT...</td><td>9/14/2018 8:03 AM</td><td>9/14/2018 11:23 AM</td><td>3.333</td><td>Approved</td><td>9/28/2018 4:10 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>TRAINING NOT PR...</td><td>6/12/2018 1:35 PM</td><td>6/12/2018 2:45 PM</td><td>1.167</td><td>Approved</td><td>6/18/2018 3:55 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>NO DOCUMENTS</td><td>5/23/2018 7:00 AM</td><td>5/23/2018 7:38 AM</td><td>0.65</td><td>Approved</td><td>6/18/2018 3:55 PM</td><td></td><td></td></tr> <tr><td>[REDACTED]</td><td>POWER OUTAGE</td><td>5/14/2018 7:20 AM</td><td>5/14/2018 9:00 AM</td><td>0.668</td><td>Approved</td><td>5/14/2018 3:10 PM</td><td></td><td></td></tr> </tbody> </table>							#	Project	Reason	Task In Time	Task out Time	IDLE Hours	Approval Status	Approval Time	Remark	[REDACTED]	TRAINING NOT PR...	10/10/2018 2:21 PM	10/10/2018 3:02 PM	0.683	Approved	10/23/2018 2:15 PM			[REDACTED]	NO DOCUMENTS	9/20/2018 7:00 AM	9/20/2018 7:24 AM	0.4	Approved	9/28/2018 4:10 PM			[REDACTED]	NO DOCUMENTS	9/19/2018 11:11 AM	9/19/2018 4:00 PM	4.817	Approved	9/28/2018 4:10 PM			[REDACTED]	NO DOCUMENTS	9/19/2018 7:00 AM	9/19/2018 10:40 AM	3.667	Approved	9/28/2018 4:10 PM			[REDACTED]	TRAINING NOT PR...	9/18/2018 9:44 PM	9/18/2018 10:00 PM	0.267	Approved	9/28/2018 4:10 PM			[REDACTED]	NO DOCUMENTS	9/18/2018 3:14 PM	9/18/2018 4:00 PM	0.767	Approved	9/28/2018 4:10 PM			[REDACTED]	NO DOCUMENTS	9/18/2018 12:16 PM	9/18/2018 12:32 PM	0.267	Approved	9/28/2018 4:10 PM			[REDACTED]	TRAINING PROJECT...	9/14/2018 8:03 AM	9/14/2018 11:23 AM	3.333	Approved	9/28/2018 4:10 PM			[REDACTED]	TRAINING NOT PR...	6/12/2018 1:35 PM	6/12/2018 2:45 PM	1.167	Approved	6/18/2018 3:55 PM			[REDACTED]	NO DOCUMENTS	5/23/2018 7:00 AM	5/23/2018 7:38 AM	0.65	Approved	6/18/2018 3:55 PM			[REDACTED]	POWER OUTAGE	5/14/2018 7:20 AM	5/14/2018 9:00 AM	0.668	Approved	5/14/2018 3:10 PM		
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3.7.3. X3 performance

As a report module, user X3 performance will show in this tab. User will able to refer their performance individually.

CITITO User Task Panel

User ID: [REDACTED]
 User Name: [REDACTED]
 Immediate Supervisor: [REDACTED]

Logged On 
 Time: 11/8/2018 9:05:17 AM

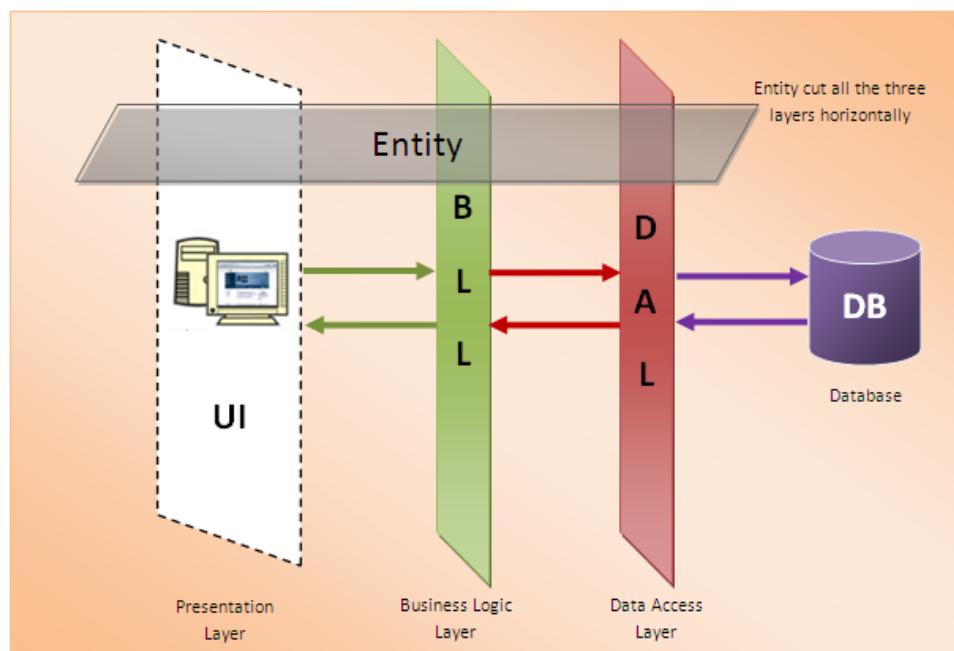
Task In/Out	11/1/2018 <input type="button" value="..."/> - 11/30/2018 <input type="button" value="..."/> Go <input type="button" value="Clear All"/>																																																																												
IDLE	<table border="1"> <thead> <tr> <th colspan="6">Summary of Performance (X3)</th> <th>Export All</th> </tr> <tr> <th>UID</th> <th>WORKED HOURS</th> <th>APPROVED IDLE</th> <th>X1</th> <th>Y</th> <th>X3</th> <th></th> </tr> </thead> <tbody> <tr><td>[REDACTED]</td><td>20.51</td><td>0</td><td>59288.4</td><td>73829</td><td>80.31</td><td></td></tr> </tbody> </table>							Summary of Performance (X3)						Export All	UID	WORKED HOURS	APPROVED IDLE	X1	Y	X3		[REDACTED]	20.51	0	59288.4	73829	80.31																																																		
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4. Implementation

The Implementation phase is that software turn into executable. In this phase software is developed affording to the detail design based on the requirements. C# also is an object oriented language has selected as a programming language to develop the CITITO.

4.1. Code Features

3-tier architecture was used in this system. Following is shows blend of three layers.



4.1.1. Insert, Update, Delete Data

Following code snippets shows how insertion and updating is happened simultaneously in one button click. Note that full codes are not showing because of the space limit. Code has been taken from user registration Add User function.

```
//Sample Code...
if (new UserManagementHeaderMng(conn).UserIsExistWithInactive(txtUID.Text.ToUpper()))
{
    //Create Object From User
    UserManagementHeader mUserManagementHeader = new
    UserManagementHeader();
    UserManagementDetail mUserManagementDetail = new
    UserManagementDetail();

    using (MD5 md5Hash = MD5.Create())
    {
        // Assign User Header
        mUserManagementHeader.P_UID = txtUID.Text.ToUpper();
        mUserManagementHeader.P_Name = txtManagerName.Text;
        txtPassword.Text = ControlsHash.GetMd5Hash(md5Hash,
        txtPassword.Text);

        mUserManagementHeader.P_Password = txtPassword.Text;
        mUserManagementHeader.P_AccessLevel = cmbSystemAccess.Text;
        mUserManagementHeader.P_Availability = 1;
        mUserManagementHeader.P_Activate_Date = DateTime.Now;
        mUserManagementHeader.P_Shift =
dateTimePickerTaskIn.Value.ToString("hh:mm tt") + " to " +
dateTimePickerTaskOut.Value.ToString("hh:mm tt");
        mUserManagementHeader.PTR_Resources = txtResourceId.Text;

    }
    UserManagementHeaderMng mUserManagementHeaderMng = new
    UserManagementHeaderMng(conn);
    UserManagementDetailMng mUserManagementDetailMng = new
    UserManagementDetailMng(conn);

    if
(mUserManagementHeaderMng.UpdateUserNameWithAllDetails(mUserManagementHeader) > 0)
    {
        //Assign User Interface data to User Object
        // Assign User Detail
        mUserManagementDetail.P_UID = txtUID.Text.ToUpper();
        mUserManagementDetail.P_Project_Availability = "Active";
        mUserManagementDetail.P_Activate_Date = DateTime.Now;
        mUserManagementDetail.M_UID = cmbManagersUID.Text.ToUpper();
        mUserManagementDetail.PIC_UID = lblPICTemp.Text.ToUpper();

        for (int i = 0; i < checkedListBoxProjects.Items.Count; i++)
        {
            if (checkedListBoxProjects.GetItemChecked(i))
            {

//MessageBox.Show(checkedListBoxTaskCode.Items[i].ToString());
                string cProjectName =
checkedListBoxProjects.Items[i].ToString();

                mUserManagementDetail.P_Project = cProjectName;

            if
(mUserManagementDetailMng.AddUserManagementDetail(mUserManagementDetail) > 0)
            {

//Sample Code...
```

4.1.2. Validation Data

Validation data is utmost key and critical of the implementation process. For the reason that users can enter annoying values to the system, consequently that accurateness of the data can be loosed. The key objective of the validation data is protection the input value is in the precise format. Below mentioned code snippets shows text field validation from user

```
//Sample Code...

//Add User
    private void btnAddManager_Click(object sender, EventArgs e)
    {
        //Validate Fields is null or empty
        PTR_QA_StdRatesMng mPTR_QA_StdRatesMng = new
        PTR_QA_StdRatesMng(this.conn);

        if (String.IsNullOrEmpty(txtResourceId.Text) ||
        !mPTR_QA_StdRatesMng.IsExistPTRResourceRecord(txtResourceId.Text))
        {
            MetroFramework.MetroMessageBox.Show(MetroForm.ActiveForm, "\nEmpty or
invalid Resource ID.", "Invalid!", MessageBoxButtons.OK, MessageBoxIcon.Error);
            txtResourceId.Focus();
            return;
        }

        if ((txtUID.Text.ToUpper().Length) != 3)
        {
            MetroFramework.MetroMessageBox.Show(MetroForm.ActiveForm, "\nUser ID
standard character length is 3. Please enter correct length.", "User ID Name Not
Entered", MessageBoxButtons.OK, MessageBoxIcon.Error);
            txtUID.Focus();
            return;
        }
        if ((txtUID.Text.ToUpper().Length) > 3)
        {
            MetroFramework.MetroMessageBox.Show(MetroForm.ActiveForm, "\nUser ID
standard character length is 3. Please enter correct length.", "User ID Name Not
Entered", MessageBoxButtons.OK, MessageBoxIcon.Error);
            txtUID.Focus();
            return;
        }
        if (String.IsNullOrEmpty(txtUID.Text.ToUpper()))
        {
            MetroFramework.MetroMessageBox.Show(MetroForm.ActiveForm, "\nUser ID
field cannot be empty..!", "User ID Name Not Entered", MessageBoxButtons.OK,
MessageBoxIcon.Error);
            txtUID.Focus();
            return;
        }
        if (new UserManagementHeaderMng(conn).UserIsExist(txtUID.Text.ToUpper()))
        {
            MetroFramework.MetroMessageBox.Show(MetroForm.ActiveForm, "\nUser ID "
+ txtUID.Text.ToUpper() + " already exists under you or another manager.", "Manager
Already Exists", MessageBoxButtons.OK, MessageBoxIcon.Error);
            txtUID.Focus();
            return;
        }
    }

//Sample Code...
```

registration.

4.1.3. SQL Queries, SPs

Following query snippets shows how insertion is happened simultaneously in SQL query. Note that full codes are not showing because of the space limit. Code has been taken from user registration module.

```
//Sample Code...

public int AddUserManagementDetail(UserManagementDetail mDetail)
{
    //insert database values
    SqlCommand insetComm = new SqlCommand();
    insetComm.Connection = this.mConnectionUser;
    insetComm.CommandType = CommandType.Text;
    insetComm.Parameters.Add("@mP_UID", SqlDbType.NVarChar);
    insetComm.Parameters.Add("@mP_Project", SqlDbType.NVarChar);
    insetComm.Parameters.Add("@mP_Project_Availability", SqlDbType.NVarChar);
    insetComm.Parameters.Add("@mP_Activate_Date", SqlDbType.DateTime);
    //insetComm.Parameters.Add("@mP_Inactivate_Date", SqlDbType.DateTime);
    insetComm.Parameters.Add("@mM_UID", SqlDbType.NVarChar);
    insetComm.Parameters.Add("@mPIC_UID", SqlDbType.NVarChar);

    insetComm.Parameters["@mP_UID"].Value = mDetail.P_UID;
    insetComm.Parameters["@mP_Project"].Value = mDetail.P_Project;
    insetComm.Parameters["@mP_Project_Availability"].Value =
mDetail.P_Project_Availability;
    insetComm.Parameters["@mP_Activate_Date"].Value = mDetail.P_Activate_Date;
    //insetComm.Parameters["@mP_Inactivate_Date"].Value =
mDetail.P_Inactivate_Date;
    insetComm.Parameters["@mM_UID"].Value = mDetail.M_UID;
    insetComm.Parameters["@mPIC_UID"].Value = mDetail.PIC_UID;

    insetComm.CommandText = "INSERT INTO
tbl_UserManagementDetail(P_UID,P_Project,P_Project_Availability,P_Activate_Date,M_UID,P
IC_UID)
VALUES(@mP_UID,@mP_Project,@mP_Project_Availability,@mP_Activate_Date,@mM_UID,@mPIC_UID
)";

//Sample Code...
```

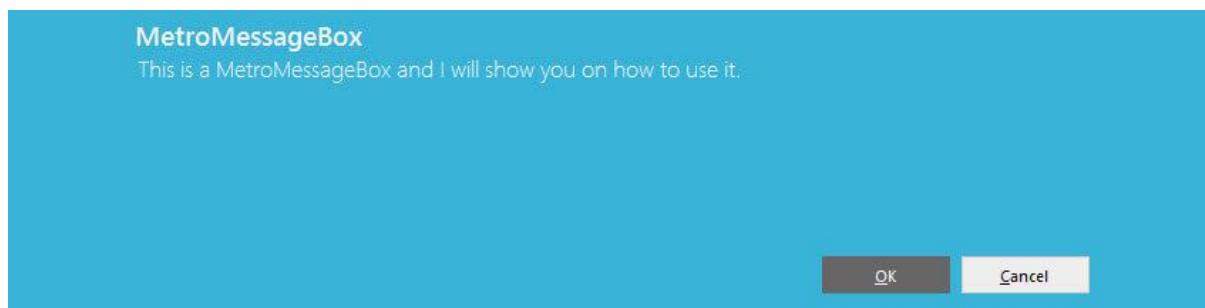
5. Messages

The CITITO application were programmed with user experienced and familiar design. Framework for UI is used Metro Material UI. The UI framework is provided visually snazzy messages to the end user. CITITO is used four type of message categories. They are:

1. Information
2. Success
3. Error
4. Warning

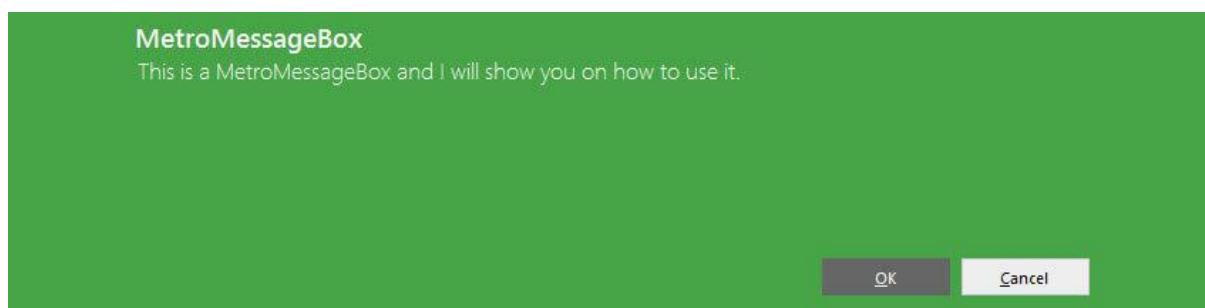
5.1. Information

This message is prompt when CITITO is giving some message to the end user. It colored as flat light blue.



5.2. Success

When function is successfully done, system is prompt this message box. It colored as flat green.



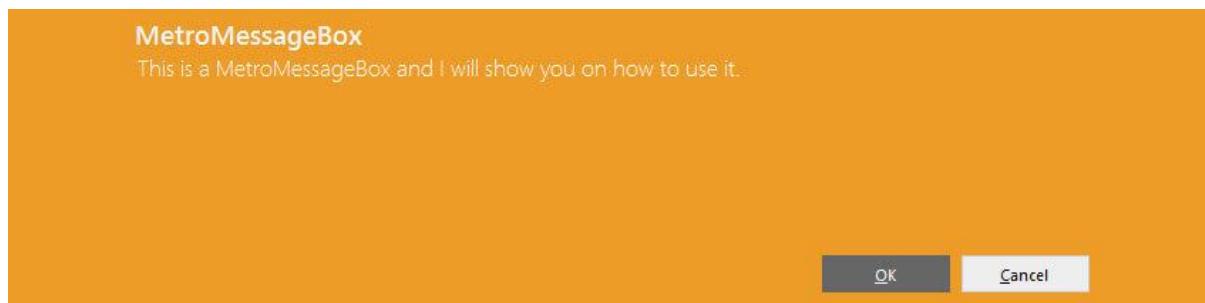
5.3. Error

If there any validation error or wrong interaction to the system is prompt this message box. It colored as flat red.



5.4. Warning

If user working with unhandled task or system undefined task, CITITO will prompt these type of message. It colored as flat yellow.



6. Conclusion

6.1. Introduction

CITITO system was developed to maintain user evaluation and productivity in single application. In agreed time span we have developed the system, after the implementation we have received more feedback from users who are entitled with the CITITO. Most of them we enhance to the current system.

6.2. Future Enhancement

The proposed system was developed within a time constraint and functionalities which were agreed. However as in any construction there is further room for improvement with this project and some of those potential enhancements have been listed below.

- Enhance BU head level.
- Customizable Evaluation sheet.
- Introducing email notifications using email client.
- Introducing web base system for reports.

