

# RIQTek Manager

Application Lifecycle Management Software

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# Address New Challenges

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## **Business Environment**

### **Changing Requirements**

Shorter Product Life

Faster Delivery

## **Operations**

### **Outsourcing**

Distributed Teams

Status and Ownerships

Cultural Differences

Knowledge Transfer

# Choice of Methodology

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## Agile Method (eXtreme Programming)

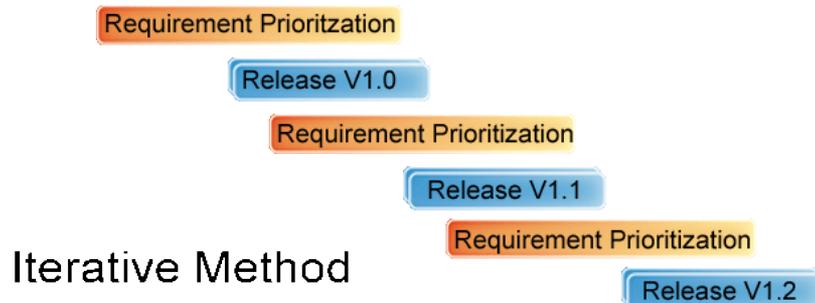
A form of Iterative Method.

Focus on best practices for Engineers.

## CMMI® (Capability Maturity Model Integrated)

A model for progressive organizational process improvements.

Can be based on Iterative Method.



## RIQTek Manager

Support Iterative Methods

Workflows for Best Practices.

Metrics for Organizational Improvements

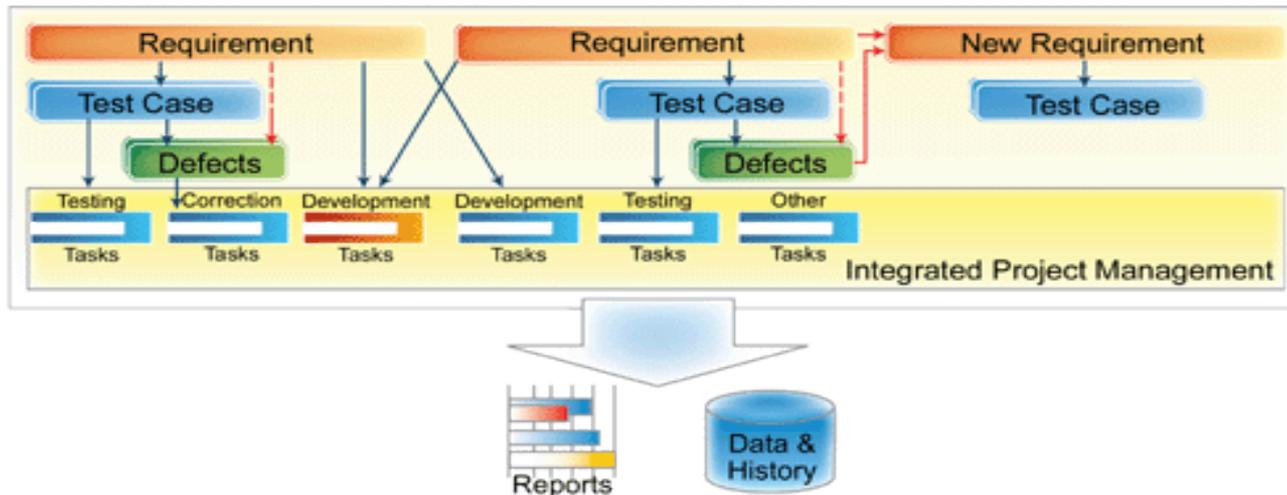
**Support ISO, Agile, CMMI, etc.**

# Benefits of Lifecycle Management

- Add and Manage Test Case via Request Reports – Clarify requirements
- Add and Manage Defects Reports via Test Cases – Identify cause of defects
- Add and Manage Test Cases via Defect Report – Increase test coverage
- Add and Manage Request Report via Defect Reports – Prevent defects through design
- Add and Manage Request Reports via a Request Report – Track requirement changes
- Track progress and status of a development from beginning to the end!**

## Manage and track tasks created during the execution

- Assign tasks via a Request report, a Test Case, or a Defect report
- Track the relationship between tasks and components of development lifecycle.
- Tasks created from different sources are managed in one place!**



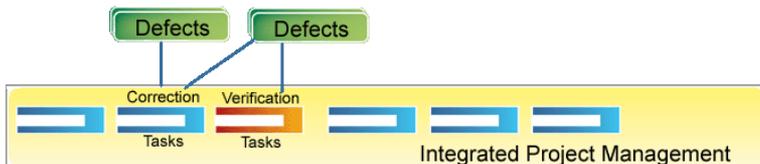
# Integrated Project Management

Track the relationship between tasks and components of development lifecycle.

Track progress, schedule, and effort for the development of a requirement.

**Manage Plans**

Task Name	Version	Task Type	Start Date	Finish Date	Progress	Assign To	Affirmant	Total	Ongoing	Finished
System Request	V1.0	Other	04-03-23	04-03-30	55%	Project Manager1	Project Manager1	1	0	1
[Planning] Milestone1-Design	V1.0	Task Folder	04-04-01	04-04-13	100%	< All Members >	Project Manager1	0	0	0
Set up Development Environment	V1.0	Other	04-04-01	04-04-13	100%	Mark Brown	Project Manager1	0	0	0
Design 1	V1.0	Other	04-04-01	04-04-13	100%	Project Manager1	Project Manager1	0	0	0
[Processing] Milestone2-Coding	V1.0	Task Folder	04-04-14	04-05-16	20.97%	< All Members >	Project Manager1	5	4	1
Coding A1 GUI	V1.0	Develop	04-04-14	04-04-28	20%	Mark Brown	Project Manager1	2	1	1
Coding A1	V1.0	Develop	04-04-14	04-04-28	30%	Mark Brown	Project Manager1	2	2	0
Coloring System	V1.0	Develop	04-05-14	04-05-16	0%	Mark Brown	Project Manager1	1	1	0
[Planning] Milestone3-Formanize	V1.0	Task Folder	04-04-25	04-05-18	6.67%	< All Members >	Project Manager1	6	5	1
A1 Bug Fixes	V1.0	Develop	04-04-25	04-05-18	40%	Mark Brown	Sue Chang	3	2	1
A1 Testing	V1.0	Other	04-04-25	04-05-18	0%	Sue Chang	Project Manager1	2	2	0
Test Case Id: 100003	V1.0	Other	04-04-28	04-05-07	0%	Sue Chang	Project Manager1	1	1	0
[Planning] Milestone4-Formanize	V1.0	Task Folder	04-04-25	04-07-02	0%	< All Members >	Project Manager1	0	0	0
Compliance Testing	V1.0	Other	04-05-15	04-07-02	0%	Customer Service1	Project Manager1	0	0	0
Project Close	V1.0	Other	04-05-19	04-05-23	0%	Project Manager1	Project Manager1	0	0	0
Defect Corrections	V1.0	Other	04-05-03	04-05-21	0%	Mark Brown	Project Manager1	0	0	0
Testing Test Case Id: 100003	V1.0	Other	04-06-29	04-07-05	0%	Customer Service1	Project Manager1	0	0	0
[Processing] Milestone One	V1.0	Task Folder	04-07-21	04-09-15	1.5%	< All Members >	Project Manager1	0	0	0
[Processing] Documents	V1.0	Task Folder	04-07-23	04-09-15	0%	CT Chen	Project Manager1	0	0	0
Help file for Project Status Report Web page	V1.0	Other	04-07-25	04-07-26	0%	Customer Service1	Project Manager1	0	0	0
document aa	V1.0	Develop	04-09-11	04-09-15	0%	Project Manager1	Project Manager1	0	0	0
Developing Request Id:100004	V1.0	Develop	04-07-23	04-07-26	0%	Mark Brown	Project Manager1	0	0	0
Mark's Correction Task	V1.0	Rework	04-07-21	04-07-29	0%	Mark Brown	Project Manager1	0	0	0
Verifying Corrections for Sue	V1.0	Rework	04-07-23	04-07-29	5%	Sue Chang	Project Manager1	0	0	0



**Task Progress**

Task Name	Version	Total	Ongoing	Finished	Operation
Develop Requests	V1.0	0	0	0	Check ToDo
Execute Test Cases	V1.0	0	0	0	Check ToDo
Correct Defects	V1.0	3	2	1	Check ToDo
Verification	V1.0	0	0	0	Check ToDo

Status	Serial No.	Summary	Affirmant	Version	Expected Finish Date	Operation
✖	100020	Incorrect sub-total value on E...	Project Manager1	V1.0	04-07-29	-
✖	100002	Negative test does not capture...	Project Manager1	V1.0	04-04-28	-
✖	100001	Button does not work	Sue Chang	V1.0	04-05-18	-

# Outsourcing Management

Clarity progress and status.

No more last minute surprises!

Contractor:

- Submit Progress Reports
- Submit Development Reports
- Submit Testing Reports
- Submit Correction Reports

Manager:

- Validate Reports
- Monitor Progress
- Control Schedule, Cost, Scope, and Quality

**Progress Reports**

2004-09-15 (Workday)(Wednesday) oDeveloper1(oDD01)

>> Task Information

Project Name:	Outsourced Project2-----[Project Mgr.:Administrator]	Start Date:	2004-09-02
Task Name:	RID10000: Development	Finish Date:	2004-09-04
Version:	Iteration 1	Task Type:	Develop
Assign to:	oDeveloper1(oDD01)	Affirmant:	
Assigned Effort:	6 Hour(s)	Used Effort:	0 Hour(s)
Unchecked Work Time:	0 Hour(s)	Last Update (date):	--
Task Description:			
Check Status:	No Status	Check Date:	
Check Notes:			

>> Add Data (\*Must Fill)

Affirmant:[Administrator] Current Progress:[20%]

Select Calendar\*: \*Std. Calenda Progress\*: 30 % Other Normal Work:0 Hour(s) Other OT Work:0 Hour(s)

Task Subclass	Add	Modify	Delete	Unit	Work Time*	OT	Work Content*	Notes	Delete
Coding	125			L	2 Hour(s)	<input type="checkbox"/>	Interface		<input type="checkbox"/>

More

Max size of uploaded files is 10,240K Upload More Attachments

**Check Progress Report -- All Unchecked Progress Reports**

Total 1 Record(s). Now is 1 Page/Total 1 Page First | Prev | Next | Last Goto 1 Page

Check	Reporter	Date ^	Project Name	Task Name	Version	Work Type	Work Time	Work Content	Progress	Details
<input checked="" type="checkbox"/>	oDeveloper1	04-09-15	Outsourced Project2	RID10000: Development	Iteration 1	Develop	2 hours	Interface	30%	Check

Confirm Progress

# High Level Governance

## Metrics and chart to identify schedule, cost, scope, and risks



•Track progress and status

•Generate alerts during execution.

•Identify risks.

# Requirement Management

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## **Attributes in a requirement**

Serial Number – uniquely identifies the requirement.

Description – describes the requirement

Expected results – describe the behavior.

Attachments – supporting material.

Priority – urgency

Significance – impact

Versions – desired and actual iteration of the implementation

Quantity – actual number of requirements.

Relevant Customer – name of the customer.

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## **Track attributes as well as the execution of requirements and changes.**

Add Use/Test Case to clarify requirements

Log written discussions for knowledge building

Track Progresses

Track Changes

# Quantitative Analysis

Provide multiple analysis methods

**For Example.-** Use the Trend Chart (Status) option to show how fast test cases are created and completed.

Now 1 Online  
No New Msg. ▶

- My Tasks ▶
- Manage Requests ▶
- Manage Testing ▼
- Manage Test Case
- Confirm Test Case
- Report Testing
- Validate Testing
- Search Testing
- Analyze Data <
- Manage Defects ▶

## Test Data Analysis Report

Report Name	Period	Start Date	Finish Date	Generate
Trend Chart (Status) ▼	Week ▼	2004- 8-15Day ▼	2004- 9-15Day ▼	GO

### Project 101

#### Trend Chart (Status)

Date	Processed	Processing	Cancelled	Open
08/11	~700	~150	~100	~10
08/18	~700	~150	~100	~10
08/25	~700	~150	~100	~10
09/01	~700	~150	~100	~10
09/08	~700	~150	~100	~10
09/15	~700	~150	~100	~10

# Qualitative Analysis

**Defects are more costly if discovered later.**

Compare between Injection and Detection Phase of defects

**Price/Performance Analysis**

Find the correlations between defects and efforts

**Qualitative Report**

\*Outsourced Project\*    \*V1.0\*

Defect Injection and Discovery	Injection Phase									Reported Phase	Defects (Injected)	Efficiency	Base	Deviation (Defect Found Rate)
	Planning	Analyze Requests	General design	Detail design	Coding	System Test	UAT	Maintainance	Other					
Reported Phase	Planning									0	2	0.00%	70.00%	100.00%
	Analyze Requests					1				1	35	2.86%	70.00%	95.92%
	General design	1						1		2	52	3.85%	70.00%	94.51%
	Detail design							1		1	80	1.25%	70.00%	98.21%
	Coding				2			5		7	208	3.37%	70.00%	95.19%
	System Test			3	26	9	1	1	1	41	222	18.47%	90.00%	79.48%
	UAT			3	45			31		80	234	34.19%	40.00%	14.53%
	Maintainance	1	1	2	41	1			2	48	157	30.57%	100.00%	69.43%
	Other	2	31	17	22	15	10	13	1	130	134	97.01%	0.00%	0.00%
	<b>Total</b>	<b>2</b>	<b>33</b>	<b>18</b>	<b>30</b>	<b>129</b>	<b>21</b>	<b>52</b>	<b>2</b>	<b>23</b>	<b>310</b>			

Defect Injection to Effort Rate(unit/hour)	Total (Defects)	Total (Effort)	Defect Injection to Effort Rate
Injection Phase			
Planning	2	1070.5	0.002
Analyze Requests	33	1384	0.024
General design	18	11038	0.002
Detail design	30	3	10.000
Coding	129	14982	0.009
System Test	21	1473.4	0.014
UAT	52	12	4.333
Maintainance	2	1428	0.001
Other	23	4703.9	0.005
<b>Coarse Defect Injection Rate</b>	<b>310</b>	<b>36094.8</b>	<b>0.009</b>

# Customization Service

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## **Benefits of RIQTek's customized solution**

**Eliminate issues associated with the turnover of the personal.**

**Remove unnecessary functions that cause confusion.**

**Receive complete documentation of the software.**

**Utilize RIQTek's domain expertise.**

**Minimize training requirements.**

**Preset pricing structure.**

**Fast delivery.**

**Contact Us Today!**

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