

A Digital Agenda for Library Automation and Networking

# Ver.3.0 (2007) (Network Edition) (Local/LAN Based Database Connectivity)

# Installation Guide for 32 PC

(Windows Server 2003/Win XP/Vista/7/8/8.1)

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http://egranthalaya.nic.in

# National Informatics Centre

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# Chapter 1 Introduction

# 1.1. Project Background

"*e-Granthalaya*" version 1.0. was released during Jan/2003 after selection by a "*Review Committee*" set up by DG(NIC). This version of "*e-Granthalaya*" was designed and developed by Karnataka State Unit (KSU) of NIC, Bangalore primarily for Public Libraries in Karnataka state.

NIC Library, New Delhi was also given the responsibility to implement "*e-Granthalaya*" in Northern part of the country. During implementation of this software, it was observed that the software was lacking many of the features and modules which are necessary to make this a standard package for Indian Libraries.

To implement these features, it was decided to **re-design** next higher version of the software by a team of experts from computer and library professionals working in NIC Library, New Delhi. As a result of this, the Ver.2.0 of the e-Granthalaya was released during 2005 by the Library and Information Services Division of NIC HQs, New Delhi. Later as forced by the new technologies and user requirements to cover-up the multi-lingual capability with UNICODE compliant data and for networking of libraries, a new upgraded version of the software was released during 2007 as named as "*e-Granthalaya Ver.3.0*". The main changes done in the third version are:-

- To make the software multi-lingual, we have used the .NET technology from Microsoft for design and development of the software. Now the software supports the data entry in all the Indian languages supported by the Windows OS.
- To make the database UNICODE compliant, we have used the SQL Server 2005 which supports data in UNICODE
- > We have used Crystal Reports for generating various reports in the software.
- PUB\_CODE, VEND\_CODE, AUTH\_CODE, Bar Code Number have been omitted
- New look to the forms and screens of the Data Entry Program
- This is a Network Edition of *e-Granthalaya* where a cluster of the libraries can use the same/common/centralized database and thus can generate union catalog
- Web OPAC interface has been re-designed in ASP.NET with advance features and new look
- LAN/WAN based connectivity possible to update the remote database from client PCs
- New fields in various tables have been added like 'Translated By', Status of the Member, etc.

# **1.2.** Purpose of this Document

Purpose of the "Installation Guide" is to enlist the procedures / steps required to install the components of "*e-Granthalaya*" ver.3.0. Main objectives of this document are:

- > To provide an overview of the Project
- > To define the Hardware Requirements
- To define Software Requirements
- To Set the Systems Settings

## 1.3. References

1. e-G3 PMP

## 1.4. Glossary

- 1. "e-G2" (e'Granthalaya, version 2.0)
- 2. AACR2 (Anglo-American Cataloging Rules 2<sup>nd</sup> Edition)
- 3. MARC21 (MAchine Readable Catalog)
- 4. Customer : User Library
- 5. ODBC (Open Data Base Connectivity)

# **Chapter 2** Systems Requirements

e-Granthalaya runs only on Windows platform and not implemented in Linux. To implement the software successfully customers require following systems in their libraries:-

# 2.1. For Client/Server Mode of Implementation

#### 2.1.1. Hardware Requirements

- 1. One Server PC with (Preferable Rack Server) (any CPU: 32 bit or 64 bit)
  - i. Standard Configuration
  - ii. Minimum 4 GB RAM or more
  - iii. 80GB or above HDD or more
  - iv. Network/Internet Connectivity
- 2. Clients PC with (As many as required by the library)
  - i. Windows Desktop with standard configuration
  - ii. Minimum 1 GB RAM
  - iii. Min 40/80 GB HDD
  - iv. Network/LAN (Internet Connectivity optional)

#### 2.1.1.1. Software Requirements

- 1. Server PC with (Operating System)
  - i. Windows Server 2008 or Higher
  - ii. MS SQL Server 2005/2008 /R2/2012 (Standard Edition) for Client/Server Mode
- 2. Clients PC with
  - i. Windows XP/Vista/Win 7/8/8.1

## 2.2. For Stand Alone Implementation

Windows Server 2003/2008, Win XP/Vista/7/8/8/1 with MS SQL Server 2005 (Express Edition) With Min 2 GB RAM/ 40/80 GB Hard Disk

<u>NOTE:</u> Those who do not possess license version of MS SQL Server 2005, they may use MS SQL Server 2005 (Express Edition) – given with the e-Granthalaya Software CD / free downloadable from Microsoft web site at <a href="http://msdn.microsoft.com/vstudio/express/sql/download/">http://msdn.microsoft.com/vstudio/express/sql/download/</a>

## 2.3. **Optional Requirements**

- 2.3.1. Laser Printer
- 2.3.2. Bar Code Printer
- 2.3.3. Bar Code Readers
- 2.3.4. Internet Connectivity

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# **Chapter 3** Installation Summary

- First Install MS SQL Server
  - Express Setup from eG3 Cd Read Chapter 4
  - Manual Installation / Setup Read another Guide from web site/ eG3 CD –"How to install MS SQL Server 2005 Manually?"
- Second Install 'eG3 Client Program' Chapter 5
- Set Database Connectivity if required. Chapter 6
- Install EG3OPAC Read Chapter 8

#### 3.1. Installation of eG3 Components on 32 Bit PC (Supported OS: Windows Server 2003/2008/Win XP/Vista/Win 7/8/8.1)

**NOTE:** No pre-requisites are needed on 32 bit PC as all the pre-requisites are included in Setup program.

- 1. Run Setup to Install **MS SQL Server 2005** (Express Edition) from CD to Install SQL Server 2005 Exp Ed Automatically Read Chapter 4
- Run eG3 Client Program Setup from CD to Install e-Granthalaya Data Entry Program – Read Chapter 5
- Make Database Connectivity (If installed in Client/Server Mode) Read Chapter 6

# 3.2. System Setup and How to Run e-Granthalaya Software– Read Chapter 7

## 3.3. Install of eG3 Web OPAC – Read Chapter 8

- 1. How to Install eG3 Web OPAC on Win XP/Windows Server 2003
- 2. How to Install eG3 Web OPAC on Windows Server 2008/Win 7

# Chapter 4

# How to Install Microsoft SQL Server 2005 – Express Edition Automatically From eG3 CD (Express Setup)

# 4.1. What is SQL Server 2005

To use the **e-Granthalaya** Software for automation of your library, you need to install the database management program i.e. "Microsoft SQL Server". Data and library catalog info entered using the e-Granthalaya Data Entry program is stored in a database. We provide the **Expression Edition** of **MS SQL Server 2005** in the CD which is free and can also be downloaded from e-Granthalaya Web Site as well as from internet. In case, you are having Standard Edition or Enterprise edition which are priced e-Granthalaya can also be run with these editions of the SQL Server. Free edition (Express Edition) can hold up to 4GB data. <u>Any version of SQL Server will work with e-Granthalaya</u>.

#### **4.2. Processor of the PC**

Before installing SQL Server 2005 you must identify processor type of your PC whether it is 32 Bit or 64 Bit. Then you must click the appropriate button to start the setup. To know your processor, right click 'MyComputer' icon from desktop and select PROPERTIES – new windows appears from where you can see your processor:



<u>NOTE</u>: In case you are installing SQL Server 2005 – Expr Ed on 64 bit processor then you need to have a separate CD of e-Granthalaya from NIC

# 4.3. How to Install SQL Server 2005 from eG3 CD with Express Setup

In case MS SQL Server is already installed then you can skip these steps and can create/restore the database in SQL Server – How? Please Read the guide from CD / Web site **"How To Create and Restore Database Manually in SQL Server?"** 

When you install the SQL Server 2005 – Express Edition from the CD of the e-Granthalaya, then following prerequisites /components will be installed automatically, no need of these components to install manually on 32 Bit PCs. In This case you can go directly on STEPS No.4.4 given below:.

On 32 Bit PC:

- 1. Windows Installer 3.1
- 2. .NET Framework 2.0

#### 4.4. Steps

1. Insert the CD of the e-Granthalaya software into the CD Drive – It is Auto Run CD. Once it is run following screen will appear. In case auto run is not working as sometimes it is disabled then explore the CD contents and Double Click the **Autorun.Exe** from CD Root to run it.



2. To start the installation of MS SQL Server 2005, click the button on the above Screen namely "Install SQL Server 2005 – Express Edition" from the above menu in the appropriate category of processor type. In case, setup is not started from the above

button then double click the "Setup.exe" file from the appropriate folder (depends on type of processor (32 bit or 64 bit)) namely - "SQLServer2005\_32BitPC-Setup" folder of the CD:

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3. Press 'Accept' button on License agreement if it comes, Accept Button may appear many times. On running of the Setup, it will installed all the components automatically without interfere of the user, as shown in the following screen:



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NOTE: During installation a screen may appear many times as given below:

Always Press the option/button - "Run Program"

🖬 How to Install and setup SQL Server 2005 Express Ed.doc - Micros	oft Word
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<u>NOTE</u>: In case "SQL Server Management Studio Express" item shown in above screen then you need to install it manually from CD by executing the File –"SQLServer2005\_SSMSEE" available in the CD



5 After installation of all the services, following screen will appear

6 Press INSTALL button from above screen, following screen will appear



By pressing the above Button – It will Restore GRANTH3 Database in the newly installed Server. In case, you receive any error or message for Not Restoring the Database then you need

to RESTORE Database manually. How? Read the Guide – "How to Restore Database in MS SQL Server 2005 Manually?" . This guide is available in CD / web site.

Press **RESTORE DATABASE** Button to restore the new database of GRANTH3 automatically in the newly installed SQL Server 2005. This database will be used by the eG3 Software.

🔜 SQL Server 2005 - Setup	<u>_ 8 ×</u>
SQL Server 2005 - Setup	
MS SQL Server 2005 installed successfully !!! Now perform the following steps	
Restore Database Create Database Login/User	
Subserver 20	• 🔄 🔛 🙄 🗣 🐷 🥸 🤍 🤤 🍼 9:27 AM

- NOTE: In case above screen does not appear and you are not able to press the above two buttons then you need to do the following task manually:a). Create a new and blank database in SQL Server 2005 and restore it with GRANTH3 database backup file from CD Database Folder pl read the guide "How to Create and Restore Database Manually" from CD Manual folder
  b). Create a database login with 'granth3' name and password 'granth3' read the above mentioned guide
- 4. Then press **CREATE DATABASE Login/User Button** from above screen it will create new database user with all permission automatically.

**<u>NOTE</u>**: Now your database is ready for use with the following info

Database Server Name:	(Local)\SQLEXPRESS
Database:	GRANTH3
Login/User:	granth3
Password:	granth3

<u>NOTE</u>: User of the software must note down the four parameters mentioned above to set the database connectivity later from eG3 Client Program, if asked.

5. Now close the screen and ready for eG3 Client Program Installation.

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<u>NOTE</u>: In case your automatic setup is failed then you can install the SQL Server 2005 Manually as given in a separate pdf file available in CD as well as on <u>http://egranthalaya.nic.in</u>

<u>NOTE</u>: After Installation of SQL Server 2005 – a short cut will be created in All Programs – U need to check whether SQL Server Management Studio is installed or Not installed. Got START >> All Programs >>SQL Server 2005 >> here should be atleas following two items: >> Configuration Tools and SQL Management Studio Express.

In case "SQL Server Management Studio Express" item shown in above screen then you need to install it manually from CD by executing the File –"SQLServer2005\_SSMSEE" available in the CD. This file can also be downloaded from Net.

# **Chapter 5**

# How to Install e-Granthalaya Data Entry Program in Client PCs

# 5.1. What is eG3 Client Program

eG3 Client Program is the Data Entry Program and Library Staff User Interface to use for data entry in the database as well to perform all the functions of the software. This program is installed on each client if eG3 is implemented in Client/Server mode where n number of Client PCs are connected with the Server PC where database is residing.

**<u>NOTE</u>**: For installation of the e-Granthalaya software 3. 0 (Data Entry Program) in client PC with 32 Bit Processor, following components are required as pre-requisites, however, these components will be installed with the eG3 client setup automatically, no need to install these separately:-

- 1. Windows Installer 3.1
- 2. .NET Framework 2.0

<u>NOTE</u>: In case the Client PC is with 64 Bit Processor, then there is no need of these prerequisites/components as these already available in 64 bit PCs.

**<u>NOTE</u>**: There is a single setup program for installation of eG3 Client Program on both the processors i.e. 32 Bit and 64 Bit PC

## 5.2. Steps

 Insert the CD of the e-Granthalaya software into the CD Drive – It is Auto Run CD. Once it is run following screen will appear. In case auto run is not working as sometimes it is disabled then explore the CD contents and Double Click the Autorun.Exe from CD Root to run it.



 To start the installation of eG3 Client Program, click the button "Install eG3 Client Program". In case, setup is not started from the above button then double click the "Setup.exe" file from the "Client Program" folder of the CD:



3. On Running the setup following screen will appear

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4. Click the INSTALL button from below screen



**<u>NOTE</u>**: In case eG3 is being implemented in Stand-Alone PC then the software will start automatically after installation successfully. In this case, now you are ready to work with e-Granthalaya Software.

**NOTE:** In case the eG3 is being implemented in Client/Server mode and your database is residing in the Server PC where your have installed SQL Server 2005 then following screen may appear first time (if database connectivity not set). To set the database connectivity Please read **Chapter 6**.

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# **Chapter 6**

# How to Set Database Connectivity from eG3 Client Program

# **6.1.** How to set Database Connectivity in the Client Program

Whenever you will install the eG3 software on client PC or if already installed and whenever it does not find the database connectivity, the following form will be appear automatically where you will set the database connectivity.

To set the database connectivity, you need to type the following four parameters of the database which you noted down in <u>Chapter 4, after Step 5</u>

Database Server Name:	(Local)\SQLEXPRESS or IP Address of Server Name of
	SQL Server Instance
Database:	GRANTH3
Login/User:	granth3 - it is case sensitive
Password:	granth3 - it is case sensitive

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Datab	ase	GRANTH3_	LAN						
User	ID	granth3							
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SQL Server 20	05 must be ri	unning in "Mi	ixed Mode	e of Auther	ntication"				
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After Typing the parameter press TEST button - if message comes "Connection Succeeded" then press **SAVE** button to save the parameter. Now Close the screen and launch the application from All Programs >> National Informatics Centre >> eGranthalaya3.0

<u>NOTE</u>: In case your connections is Failed then try to give the correct parameter and also check the Services of SQL Server 2005 – running or stopped.

<u>NOTE</u>: In case, your going to install e-Granthalaya 3.0 in Client Server Mode then do the following steps:

- Install SQL Server in one PC call it Server PC. Make the **Firewall off** in this Pc
- Install eG3 Client Program in all other PCs call these Client PCs.
- Set Database Connectivity in all the Client PCs use Server IP address or Name of server found at first screen of SQL Server Management Studio.

# **Chapter 7** System Settings and How to Start e-Granthalaya Program

# 7.1. DATE Setup

1. Before using the e-Granthalaya Software, you must set the **Short Date Format** as "**MM/dd/yyyy**" in Server PC as well as Client PCs

**NOTE:** For setting up the Short Date Format , Go to Control Panel >>Regional Options>>Advance Button >>Date Tab (change here the "Short Date Format settings" of the date and save it ) – in both Server and Client PC. Date Separator must be "/". However, while adding the Date in the data entry program you must enter it in Indian Style e.g. 23/01/2011 (Only 10 digits dates are accepted)

My Documents Microsoft DataBinding REPORT_D Shortcut to New Microsoft Temporary billing final.doc Complete	
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When a two-digit year is entered, interpret as a year between:	
1930 and 2029 🕂	
My Netwo VICPatnaS e-g-worksh Places	
Short date	
Recycle E Short date sample: 10/30/2007 SV.doc projectrepo	
Short date format: MM/dd/W	
Interne Explore Date separator: /	
Long date Long date sample: Tuesday, October 30, 2007	
Microsof Quitook Report_Te report.doc	
Long date format: dddd, MMMM dd, yyyy	
WinZip Untitled.bmp Project OK Cancel Apply Title.doc	
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# 7.2. DISPLAY SCREEN

2. Display screen: Best viewed in 600x800 resolution settings of display screen

# 7.3. How to Display Logo in eG3

To display the logo of the organization in the eG3 software, copy the logo image file on the following location in each of the client PCs. The logo file name must be "Cleint\_Logo.gif" only.

C:\Library\Client\_logo.gif

#### 7.4. How to Display Background Picture in eG3

To display the background picture of your choice in the e-Granthalaya main screen, copy the image file on the following location in each of the client PCs. Image File name must be only "library.jpg"

C:\Library\library.jpg

## 7.5. How to Start eG3

1. After successful installation of eG3 Client and setting up of database connectivity start the software from **START** >> **PROGRAMS** >> **National Informatics Centre** >> e-**Granthalaya3.0** Following screen will appear

e-Granthalaya: A Digital /	Agenda for Library Automation and Networking	
	e-Granthalava	
	Digital Agenda for Cibran Automation and Wataworking	
	A Digital Agenau for Library Automation and Networking	
	Version 3.0 (2007)	
	Select your Language (अपनी आणा जुनिये)	
	Language (आग) Assamese 🗸 🗸	
	National Informatics Centre	
democratical designation of	Ministry of Communications and Information Technology	
	New Delhi	
		Rev 4
22-May-2008		

2. Select the **Language** from the Language Drop- Down in which you want to display the labels, next screen will appear

**<u>NOTE</u>**: In case, Languages are not filled in as above – it means database is not connected.



1. Press the 'Add New Library' Record for the first time.. next screen will appear

	Library Details	Exit
earch		Action Buttons
	System Generated	
ode	(Len 10 Chr, alpha-numeric, English Only)	
ame		Search
		Add New
		Edit
		Delete
		Print
ld Name	Code NICLIB (Len 10 Chr, alpha-numeric, English Only) NIC Library	Save
Location	CGO City New Delhi	Update
Parent Body	National Informatics Centre	Cancel
Library Type	M (B=Branch/M=Main)	Clear
Main Lib Code		
Fax	Phone	
		and the second as a first second seco

2. Type the Library Details and press SAVE Button.. then press EXIT button.. you will be back to select the newly added library

e-Granthalaya-A Digital Agenda For Library Automation and Networking	
e-Granthalaya	
A Digital Agenda for Library Automation and Networkin	ng
Network Edition Version 3.0 (2007)	•
(Remote/WAN based Connectivity)	
Select your LIBRARY	
NIC Library	[老山山明][#H2][[[]][[]][[]][[]][[]][[]][[]][[]][[]]
OK Cancel	
Design and Developed by	
National Informatics Centre	
Government of India	
nttp://egrantnalaya.nic.in Email: egranthalaya forum@lsmgr.nic.in	
20-Aug-2009	Rev. 13
🏄 Start 💹 Microso 🛷 Granth 📃 Windo 📄 2 Win 🔻 🔀 Adobe 👼 eG3_In 🕅 2 ¥sh 🔻	🖪 < 🔊 🔳 🛃 🐢 10:06 AM

3. Select the Library and Press OK button ... You will be jumped to the next screen given below

e-Granthalaya: A Digital Agenda for Library Automation and Networking	
NIC Library b	
(Remote/WAN based Connectivity) Login Information User Code Password OK Cancel Add New User Design and Developed by National Informatics Centre	Press Add New User to add the first user
Covernment of India http://egranthalaya.nic.in Email: egranthalaya_forum@lsmgr.nic.in Indianter Subport Stick Street Subport Stick Attended States 20-Aug-2009	Rev. 13
20-Aug-2009         THE OF SUPPORT PROFESSIONALE           20 Start         Start         Microso         Start         Adobe         Image: Comparison of the support	Rev. 13

4. Press ADD NEW USER button then next screen will appear

		Liner Hall	User	'S'			Exit
Search	Second Line of the Second		REAL PROPERTY AND	automusian paceta			Action Buttons
ID	Sy	stem Generated					
Code		(Len Ten Chr,a	lpha-numeric )				Search
Name							Add New
		SECONDUCTION OF	estario da su da conselo				Edit
							Delete
							Print
							Change Password
Add / Edit Recon	ds			- Madula Pares			Action Buttons
ID	Sust	em Generated		Admin	N I	(Y/N)	
Code	BKM	(Len Ten Chr.alp)	ha-numeric )	Acquisition		(Y/N)	Save
Name	Dam Kumar Ma	toria	And a second second	Cataloging		(YZN)	Update
Password		Action Roumi				(YZN)	Cancel
Retupe Password		Issue	Y (Y/N)	Serials		(YZN)	Clear
Library code	I	Return	Y (Y/N)	Articles		(YZN)	Save
		Reserve	Y (Y/N)	Budget		(YZN)	Password
		Search	Y (Y/N)	Search		(Y/N)	
		Contract and a second	NAME AND POST OF AN ADDRESS OF AD	Jearch	CA1523		La and the second se

5. Add the User Details with password and press SAVE to save the record.. then press EXIT button.. you will be back to the following screen

LIBRARY HP secretariat A-Block, 11th Stree, Shimla	
Login Information         User Code         Password         OK         Press OK to enter         Designed and Developed by         Dational Informatics Centre         Ministry of Communications and Information Technology         New Delhi	
22-мау-2008	Rev 4

6. Select User Code and Password to further proceed



#### PLEASE READ USER MANUAL FOR DATA ENTRY

# **Chapter 8** How to Install and Run Web OPAC

The *e-Granthalaya* software provides "Web OPAC" – a web based search interface to access the library catalogs over Internet/Intranet. The Web OPAC is a useful tool to publish the library catalog to be accessed and search the library catalogs as well as to provide the member-specific information like books overdue, recent arrivals, etc. In case your PC is on LAN then WebOPAC interface may be available from any computer in the organization and thus user will be able to search the library catalog from his/her desktop.

#### 8.1. Pre-Requisites

The Web OPAC of e-Granthalaya is a "Server-Based" component and must be installed in Server PC, generally in the same PC where your database (GRANTH3) is residing. So in case you have implemented the e-Granthalaya software in Client-Server mode then it is advisable to install the WebOPAC interface in Server PC with the OS: Windows Server 2003/2008/2008R2. However, in case you have implemented the eG3 in Stand-Alone mode on single PC (Windows XP/Vista/7) then WebOPAC will be installed in these PCs only.

For installation and running successfully the WebOPAC interface, make sure that the PC must be installed with "**Internet Information Server (IIS)**". In Server OS like Windows Server 2003/2008/2008R2, it is pre-installed while in Windows XP/vista/7 the IIS may be installed before installation of the WebOPAC.

You can check whether your PC is pre-installed with IIS or not with following procedure:-

 Check whether "InetPub/wwwroot" folder/sub-folder exists in C Drive (C:\InetPub\wwwroot) – if available then it is assumed that IIS is already installed.

😂 Inetpub				_ 6 🛛
File Edit View Favorites Tools He	lp			
🚱 Back 🝷 🕥 🚽 🏂 Searc	h 🔀 Folders 🛄	-		
Address 🔂 C:\Inetpub				💌 🄁 Go
Folders	×			
Desktop     Desktop     Documents	<u> </u>	AdminScripts	iissamples	
Wy Computer     Second Disk (C:)     ADOBEAPP		mailroot	Scripts	
<ul> <li>daljeet</li> <li>Documents and Settings</li> <li>egBrochure</li> <li>finetsub</li> </ul>	=	wwwroot		
<ul> <li>AdminScripts</li> <li></li></ul>				
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Malout	~			
👭 start 📄 🎦 2 Windows 👻	eG3 Installati	G2 Installati	EN Type to search G - <	🛒 🍘 🚺 🦓 10:42 AM

2. Go to Control Panel >> Administrative Tools >> Services and double click it – all services will be displayed, go to the bottom of the services and check whether "World Wide Services" is available and in "Running " condition

→ Em	a Services	1 Julia					
Image: Services (Local)         World Wide Web Publishing         Stop the service         Pause the service         Restart the service         Percentiation of the service         Percentiation of the service         Provides Web connectivity and administration through the Internet Information Services snap-in         Windows Audio         Windows CardSpace         Windows Presental         Windows Presental         Windows Presental         Windows Managem         Windows Managem         Windows Managem         Windows Priveres	nie Action view						
Services (Local)       Name       Description       Status       Startup Type       Log On As         Stop the service Pause the service Restart the service Restart the service       Manual       Local Service         Description: Provides Web connectivity and administration through the Internet Information Services snap-in       Manual       Local System         Windows Audio Windows Audio Windows Driver Fou Windows Installer       Manual       Local System         Windows Sinstaller       Manual       Local System         Windows Sinstaller       Manual       Local System         Windows Audio Windows Services snap-in       Manual       Local System         Windows Manages       Started       Automatic       Local System         Windows Services Snap-in       Web Clent       Manual       Local System         Windows Manages       Started       Automatic       Local System         Windows Services Snap-in       Windows Strewall/In       Provides n       Started       Automatic       Local System         Windows Managem       Started       Automatic       Local System       Started       Automatic       Local System         Windows Installer       Windows Managem       Provides n       Started       Automatic       Local System         Windows Managem	> 📧 🖀 🛙						
World Wide Web Publishing         Name         Description         Status         Startup Type         Log On As           Stop the service Pause the service Restart the service         Manual         Local Service         Manual         Local Service           Description: Provides Web connectivity and administration through the Internet Information Services snap-in         Manual         Local System         Manual         Local System           Wilde Web Client         Enables Will.         Started         Automatic         Local System           Windows CardSpace         Securely e         Manual         Local System           Windows CardSpace         Securely e         Manual         Local System           Windows Strike         Minage AL         Provides Image AL         Manual         Local System           Windows Installe         Adds, modi         Manual         Local System           Windows Install         Adds, modi         Manual         Local System           Windows Installe         Madds, modi         Manual         Local System           Windows Installe         Started         Automatic         Local System           Windows Installe         Started         Automatic         Local System           Windows Managem         Started         Automatic <th>Services (Local)</th> <th>🐞 Services (Local)</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Services (Local)	🐞 Services (Local)					
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Pause the service Restart the service       Visual Studio 2005       Allows me       Disabled       Local System         Description: Provides Web connectivity and administration through the Internet Information Services snap-in       WCPService       Started       Automatic       Local System         Windows CardSpace       Started       Automatic       Local System         Windows SangeAc       Provides m       Started       Automatic       Local System         Windows Installer       Adds, modi       Manual       Local System         Windows Managem       Provides a       Started       Automatic       Local System         Windows Managem <td></td> <td>Stop the service</td> <td>Chiversal Plug and</td> <td>Provides s</td> <td></td> <td>Manual</td> <td>Local Service</td>		Stop the service	Chiversal Plug and	Provides s		Manual	Local Service
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WMI Performance A       Provides p       Manual       Local System         Workstation       Creates an       Started       Automatic       Local System         Workstation       Creates an       Started       Automatic       Local System         World Wide Web Pu       Provides W       Started       Automatic       Local System         Extended & Standard			🖏 Wireless Zero Confi	Provides a	Started	Automatic	Local System
Workstation Creates an Started Automatic Local System			WMI Performance A	Provides p		Manual	Local System
World Wide Web Pu Provides W Started Automatic Local System			Workstation	Creates an	Started	Automatic	Local System
Extended & Standard /			World Wide Web Pu	Provides W	Started	Automatic	Local System
(Extended / Standard /		Subadad Standard					
		Contended A standard /					

In case "World Wide Service" is not available/running then you have to install the IIS. After installation of IIS, you can install the Web OPAC interface as given below.

#### 8.2. How to Install Web OPAC in Windows Server 2003/XP

The Web OPAC interface is available in the CD in "eG3OPAC" folder as well as available on our web site for download.

► -C200AC									
egoppac									
File Edit View Favorites Tools Help									
🚱 Back 🔹 🌍 - 🏂 🔎 Search 🔊 Folders 💷									
Address D:\eG3 Package\eG3OPAC				🛩 🔁 Go					
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🖽 🚞 e Granth Final - 4 -Mar- 2003 🔨	App_Code		File Folder	08/04/2008 4:38					
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II CO EGBOPAC	Books		File Folder	08/04/2008 4:38					
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C Manual	Members		File Folder	08/04/2008 4:38					
mdac28	About.aspx	10 KB	ASP.NET Server Page	07/14/2008 11:4!					
MSSOI 2005	About.aspx.vb	1 KB	Visual Basic Source file	05/27/2008 10:5					
Pre-Requisites	CheckUser.aspx	1 KB	ASP.NET Server Page	05/01/2008 2:20					
Reports	CheckUser.aspx.vb	5 KB	Visual Basic Source file	06/27/2008 2:24					
Transition of the second se	Conn_closed.htm	2 KB	HTML Document	06/24/2008 11:28					
eG3 Lindates	Default.aspx	6 KB	ASP.NET Server Page	08/04/2008 2:22					
eG3OPAC	error.aspx	1 KB	ASP.NET Server Page	01/07/2008 4:07					
e Brochure	error.aspx.vb	3 KB	Visual Basic Source file	06/24/2008 11:28					
🔳 📄 eGranthalava	Feedback.aspx	7 KB	ASP.NET Server Page	08/04/2008 2:27					
Granth 1TOGranth 2	Feedback.aspx.vb	18 KB	Visual Basic Source file	07/09/2008 3:58					
GRANTH2	Global.asax	2 KB	ASP.NET Server Ap	05/06/2008 12:3					
GRANTH2NET	💷 header.aspx	10 KB	ASP.NET Server Page	07/22/2008 11:0:					
Granth3EinishedReports	// header.htm	1 KB	HTML Document	06/25/2008 11:28					
Granth 3.0 WCE	CatestLink.htm	6 KB	HTML Document	06/25/2008 11:3:					
	Library.aspx	6 KB	ASP.NET Server Page	07/14/2008 11:28					
HINDI PAPERS FONTS	Library.aspx.vb	6 KB	Visual Basic Source file	07/22/2008 11:0					
LASNIC	🛅 Login.aspx	6 KB	ASP.NET Server Page	07/07/2008 2:03					
🗉 🧰 MSOCache		- VP	ACD NET Conver Dage	06/27/2000 1154					
🛃 start 📄 🖆 3 Windows 👻 🔣 Alicro	soft 🔹 🎇 Services	EN Type to searc	h G - 🗟 🐠 🕫 🥝	10:52 AM					

**Step 1.** Copy the entire folder (eG3OPAC) from the Software CD and past it under **C:/InetPub/wwwroot**/ as given below

C:/InetPub/wwwroot/eG3OPAC/\*.\*



**Step 2:** Open the "**Web.Config**" file from "eG3OPAC" folder in notepad / wordpad /Visual Studio

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Sack • S • Search Folders								
Address 🛅 C:\Inetpub\wwwroot\eG3OPAC					🖌 🄁 Go			
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🗏 🦳 Inetpub	~	🛅 About.aspx	10 KB	ASP.NET Server Page	07/14/2008 11:4			
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issamples		CheckUser.aspx	1 KB	ASP.NET Server Page	05/01/2008 2:20			
🖿 🧰 mailroot		CheckUser.aspx.vb	5 KB	Visual Basic Source file	06/27/2008 2:24			
C Scripts		Conn_closed.htm	2 KB	HTML Document	06/24/2008 11:28			
wwwroot		🛅 Default.aspx	6 KB	ASP.NET Server Page	08/04/2008 2:22			
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E C eG3OPAC		🟉 LatestLink.htm	6 KB	HTML Document	06/25/2008 11:3:			
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		🐚 Library.aspx.vb	6 KB	Visual Basic Source file	07/22/2008 11:0			
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Malout		🛅 logout.aspx	2 KB	ASP.NET Server Page	06/27/2008 1:54			
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revarani		ShowFeedBack.aspx	12 KB	ASP.NET Server Page	07/21/2008 4:11			
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avita		📑 web.config	5 KB	XML Configuration File	07/25/2008 1:54			
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**Step 3:** Change the database connectivity by replacing the SERVER NAME, DATABASE NAME, USER ID and PASSWORD from the "Web.Config" file (in bottom part of the file)

```
<add key="dbConnString" value="Data Source=GRANTH90;Initial Catalog=GRANTH3;UID=sa;pwd=granthxyz123"/>
```

NOTE: Need to replace green string only, Data Source means Database Server Name; Initial Catalog means Database Name and; UID means database/login User ID ; PWd meand Password. Do not delete punctuation marks like ",/>, etc



#### Step 4: Create the Application Name in the IIS :- as given below:-

 Go to START >> SETTINGS>>CONTROL PANNELS >>Administrative Tools>>Internet Information Services (double click it to open) and Select your folder (eG3OPAC) under "Default Web Site " - Expand it by clicking + sign



**Step 5:** Right Click the Folder "eG3OPAC" and click the PROPERTIES, a new windows will be opened as given below. Press the "**Create**" button to create an "Application Name"

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Internet Information Services     GRANTH17 (local compute     GRANTH17 (local compute     GRANTH17 (local compute     GranthService     GranthService     GranthService     GranthService     GranthService     Juit Join     Juit Join	Stating point:       Configure         Projectory       Documents         Directory       Documents         Other connecting to this resource, the content should come from:         Image: The designated directory         A share located on another computer         A redirection to a URL         Local Path:       veG3OPAC         Script source access       V Log visits         Vinte       Index this resource         Vinte       Directory browsing         Application       Creat         Starting point: <default application<="" td="">         Creating point:       Coefault Web Site&gt;         Execute Pemissions:       Scripts only         Application Protection:       Medium (Pooled)</default>	Press Create button to create name of the application
	OK Cancel Apply (	

**Step 6:** After creating the "application name", go to "**Directory Security**" tab following screen will appear

File Action View Help						
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U	<ul> <li>error.aspx</li> <li>error.aspx</li> <li>error.aspx</li> <li>Feedback.</li> <li>Global.asa</li> <li>header.as</li> <li>header.as</li> <li>header.htt</li> <li>LatestLink</li> <li>Library.asj</li> <li>Library.asj</li> <li>Login.aspx</li> <li>logout.asp</li> </ul>	Secure communications Require secure enable client ce resource is acce	communications and communications and tifficates when this sseed.	Edit Server Certificate View Certificate Edit		
	<ul> <li>logout.asp.</li> <li>md5.js</li> <li>ShowFeed</li> <li>ShowFeed</li> <li>ShowFeed</li> <li>web.config</li> <li>Welcome.ast</li> </ul>		OK Cancel	Apply	Help	
		(o			1	

**Step 7:** press first "EDIT" button from above screen – next screen will appear as given below - Put the check box in "Anonymous Access" and "Integrated Windows Authentication" – as seen in the below screen

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<)		Integrated Windows authentication OK Cancel Help elp out.aspx	×
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**Step 8:** Press OK to save the setting and then Click then ASP.NET tab to set the ASP.NET Version 2.0 as given in the below screen

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**NOTE: In Windows XP only 8 Steps are required. Below step is only for Windows Server 2003:** 

**Step 9:** Go to Web Server Extension and Check the Allow/disallow execution of the ASP.NET file. If not allowed to be run then right click the ASP.NET and Press 'Allow"

🐚 Internet Information Services (IIS) Manag	jer 🦷				
🐚 Eile Action View Window Help				-	. <b>8</b> ×
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Application Pools		A Web Service Extension	Status		
Web Sites		All Unknown CGI Extensions	Prohibited		
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😐 🥠 Reports	Prohibit	Active Server Pages	Allowed		
🗈 🎂 ReportServer	Properties	FrontPage Server Extensions 2002	Allowed		
Boop		Internet Data Connector	Prohibited		
H GOPAC	- ·	😼 Server Side Includes	Allowed		
🗄 🍜 EGWEBatSAN	Tasks	WebDAV	Provibited		
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III images	Add a new Web service extension				
WebOPAC1	Allow all Web service extensions for a				
• WebOPAC2	specific application				
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Step 10: Now Run the web OPAC Interface

#### 8.3. How to Install Web OPAC in Windows Server 2008/Win 7

1. Install "Internet Information Server (IIS)" (if not already installed) from Control Panel >>Program and Features – on Double-Click the Icon following windows will appear

									x
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istall a program from the	Name	Publisher	Installed On	Size	Version				
/ [	ActivePerl 5.10.1 Build 1008 (64-bit)	ActiveState	01/11/2011	67.0 MB	5.10.1008				
	4 Adobe AIR	Adobe Systems Inc.	01/07/2011		2.5.1.17730				
	Adobe Flash Player ActiveX	Adobe Systems Incorporated	11/18/2010		9.0.124.0				
	Adobe Shockwave Player 11.5	Adobe Systems, Inc.	01/14/2011		11.5.9.615				
	Ask Toolbar	Ask.com	01/07/2011	1.72 MB	1.9.1.0				
	ATI Catalyst Install Manager	ATI Technologies, Inc.	11/18/2010	22.3 MB	3.0.778.0				
	🔁 Bing Bar	Microsoft Corporation	11/18/2010		6.0.2232.0				
	🤯 Corel DVD MovieFactory 7	Corel Corporation	11/18/2010	353 MB	7.0.0				
lick option	Crystal Reports for .NET Framework 2.0 (x64)	Business Objects	01/20/2011	66.0 MB	10.2.0				
	Crystal Reports for .NET Framework 2.0 (x86)	Business Objects	01/07/2011	35.3 MB	10.2.0				
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	Java 2 Runtime Environment, SE v1.4.2_12	Sun Microsystems, Inc.	01/10/2011	130 MB	1.4.2_12				
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	📧 Media Player & Replicator		11/18/2010						
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	Microsoft .NET Framework 4 Extended	Microsoft Corporation	01/14/2011	51.9 MB	4.0.30319				
	G Microsoft Office FrontPage 2003	Microsoft Corporation	01/12/2011	151 MB	11.0.5614.0				
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	Microsoft SQL Server 2005	Microsoft Corporation	01/17/2011						
	Microsoft SQL Server Management Studio Express	Microsoft Corporation	01/17/2011	90.0 MB	9.00.4035.00				
	Microsoft SQL Server Native Client	Microsoft Corporation	01/17/2011	5.81 MB	9.00.4035.00				
	Microsoft SQL Server Setup Support Files (English)	Microsoft Corporation	01/1//2011	20.0 MB	9.00.4035.00				
	Microsoft SQL Server VSS Writer	Microsoft Corporation	01/1//2011	1.10 MB	9.00.4035.00				
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	Currently installed programs Total size: 1.	31 GB							
	40 programs installed								
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2. Click the option from Left Side of the above screen – "Turn Windows Features on of off". A new Windows will appear from where u need to select and check the options under "Internet Information Services" >> "World Wide Web Services" >> "Application Development Feature" – select all except CGI as given below.



3. Press Ok after selecting all the features from above screen – it will start the installation of the components as shown below

Recycle Bin     kali's_recum     Free PDF Tablet       Image: Display the server the s		
Image: Doci image: Nero	Windows Features         Turn Windows features on or off         Microsoft Windows         Please wait while Windows makes changes to features. This might take several minutes.         Image: Cancel         Image: NET Extensibility         Image: Cancel         Image: Cancel	
McAre Security Sc		

- 4. After installation of the Internet Information Server, better to reboot the PC and then follow the steps given below
- 5. Now copy the "eG3OPAC" folder from e-Granthalaya CD in your PC where you want to run the OPAC. In fact, you can copy "eG3OPAC" folder in any drive of the PC (no need to copy in InetPUB folder) u must remember the path
- 6. Go to **Control Panel** and double Click the **Administrative Tools**, new window will appear from which you need to expand the node from left just by double click the your computer name >> to Sites >> Default Web Site as shown below



7. Right Click "Default Web Site" and select option "Add Application" –as given in following screen



8. On selecting "Add Application" following screen will appear where you will enter :- Alias : OPAC

Application Pool: Classic .NET AppPool (ckick SELET Button and pick from drop-down" Physical Path: Browse the folder eG3OPAC which you copied from eG3 CD into your PC (e.g. I have copied in "D:\eG3OPAC" drive)

Press OK button



9. After OK it will look like in the below screen

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10. Now run Internet Explorer and give the URL to run the opac in browser:

http://localhost/OPAC/ or http://<your Pc Name>>/OPAC e.g. http://library/opac

Or http://IP address/OPAC e.g. http://10.1.12.146/opac/



Fig. Web OPAC Interface of e-Granthalaya 3.0

