

Maintenance Manual

Company ERP System

Product Owner

Innovatus Technologies

Team

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Table of Contents

Chapter	Page No.
1. Steps to Install JDK.....	1
2. Steps to Install NETBEANS 8.2 IDE.....	5
3. Steps to Install MYSQL Backend Database server.....	10
4. Project Deployment.....	25
4.1 Project Folder	25
4.2 MySQL Administrator Login	25
4.3 MySQL Welcome page	26
4.4 Restore Backup Panel	26
4.5 Restore Database File Picker	27
4.6 Restore Backup File selection	27
4.7 Start Restore of Database	28
4.8 Successful Database Restore	28
4.9 Project copy	29
4.10 Project Paste	29
4.11 NetBeans Initialization	30
4.12 Opening Project in NetBeans	30
4.13 Project Selection	31

4.14 Jar file Copy.....	31
4.15 Jar file paste	32
4.16 Add Jar/Folder	32
4.17 Jar File picker	33
4.18 Project Execution.....	34
4.19 Project Login Page.....	34
5. Manager and its Operations	
5.1 Manager Login	35
5.2 Manager Dashboard.....	36
5.3 Manager Change Password	37
5.4 Add Company Details	38
5.5 Edit Company Details.....	39
5.6 Add Staff.....	40
5.7 View and Edit Staff	41
5.8 View Staff Report.....	42
5.9 View Sale Graph.....	43
5.10 View Purchase Graph	44
6. CEO and its Operations	
6.1 CEO Login.....	45
6.2 CEO Dashboard.....	46
6.3 CEO Change Password.....	47
6.4 View Sale Graph.....	48

6.5 View Purchase Graph	49
7. Staff and its Operations	
7.1 Staff Login	50
7.2 Staff Dashboard	51
7.3 Add Client.....	52
7.4 Search Party	53
7.5 Edit Client/Party	54
7.6 Add Item	55
7.7 HSN Code Selection.....	56
7.8 Search Item	57
7.9 Edit Item	58
7.10 Stock Register.....	59
7.11 New Purchase	60
7.12 Search Purchase	61
7.13 Purchase Payment.....	62
7.14 Advance Payment	63
7.15 New Sale.....	64
7.16 Search Sale	65

Table of Figures

Figure	Page No.
1. JDK File.....	1
2. Installer Initialization.....	1
3. Installer welcome page	2
4. Installer optional features selection	3
5. Installer status	3
6. Destination Folder Selection	4
7. Installing Java.....	4
8. Installation Complete	5
9. NetBeans Installation File	5
10. Configuring the Installer.....	6
11. Installation Welcome page	6
12. Terms and Conditions.....	7
13. Installation Destination Folder Selection	7
14. GlassFish Server Installation Destination folder selection.....	8
15. Installer Summary.....	8
16. Installing NetBeans IDE	9
17. NetBeans Installation Complete	9
18. MySQL Installation Files	10
19. MySQL Installation Setup Wizard	10
20. Installer type Selection	11

21. Installation Features Selection.....	11
22. Installer Review	12
23. Installing MySQL.....	12
24. Installer Wizard Completed.....	13
25. MySQL server instance configuration wizard.....	13
26. Configuration type selection.....	14
27. Sever Type Selection	14
28. Database Usage Selection.....	15
29. Table Space settings	15
30. Concurrent connection selection	16
31. Networking options selection	16
32. Default character set selection.....	17
33. Windows service option selection	17
34. Set security options.....	18
35. Successful configuration file creation	18
36. MySQL tools Setup wizard	19
37. Terms and conditions.....	19
38. Destination folder selection.....	20
39. Setup Type selection.....	20
40. Ready to Install	21
41. Setup Wizard Completed.....	21
42. MySQL administrator Login page.....	22
43. Creating new instance connection	22

44. MySQL administrator Login	23
45. MySQL Dashboard.....	23
46. Project Folder	24
47. MySQL login.....	24
48. MySQL Welcome page	25
49. Restore Backup panel	25
50. Restore Database File Picker.....	26
51. Restore Backup File selection	26
52. Start Restore of Database	27
53. Successful Database Restore	27
54. Project Folder	28
55. Project Destination Location	28
56. NetBeans Splash screen.....	29
57. NetBeans Open Project.....	29
58. Project Selection	30
59. MySQL Java connector selection	30
60. MySQL connector paste location	31
61. Adding Jar to the project	31
62. Jar File Picker	32
63. Project Execution.....	32
64. Start Restore of Database	33
65. Manager Login	35
66. Manager Dashboard.....	36

67. Manager Change Password	37
68. Add Company Details	38
69. Edit Company Details.....	39
70. Add Staff.....	40
71. View and Edit Staff	41
72. View Staff Report.....	42
73. View Sale Graph.....	43
74. View Purchase Graph	44
75. CEO Login.....	45
76. CEO Dashboard.....	46
77. CEO Change Password.....	47
78. View Sale Graph.....	48
79. View Purchase Graph	49
80. Staff Login	50
81. Staff Dashboard	51
82. Add Client.....	52
83. Search Party	53
84. Edit Client/Party	54
85. Add Item	55
86. HSN Code Selection.....	56
87. Search Item	57
88. Edit Item	58
89. Stock Register.....	59

90. New Purchase	60
91. Search Purchase	61
92. Purchase Payment.....	62
93. Advance Payment.....	63
94. New Sale.....	64
95. Search Sale	65

The ERP software is deployed and maintained using the instructions given below. For the deployment purposes, the Java Development Kit, NetBeans IDE and the MySQL database needs to be installed and configured according to the steps stated below.

1. Steps to Install JDK

1.1 Step 1

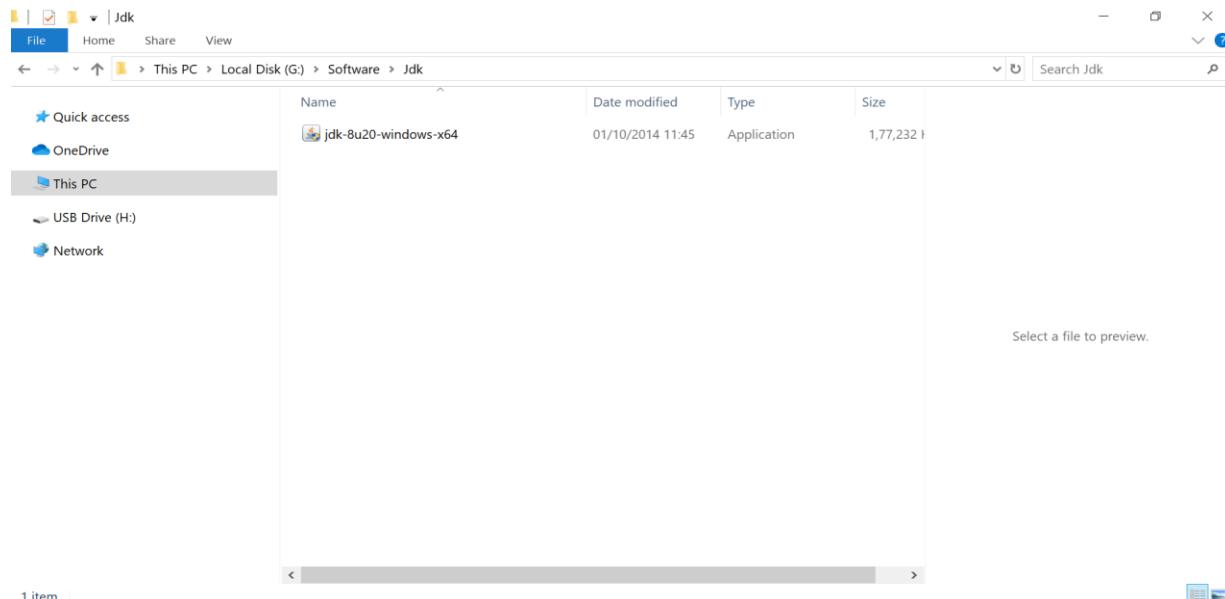


Figure 1: JDK File

1.2 Step 2



Figure 2: Installer Initialization

1.3 Step 3



Figure 3: Installer welcome page

1.4 Step 4

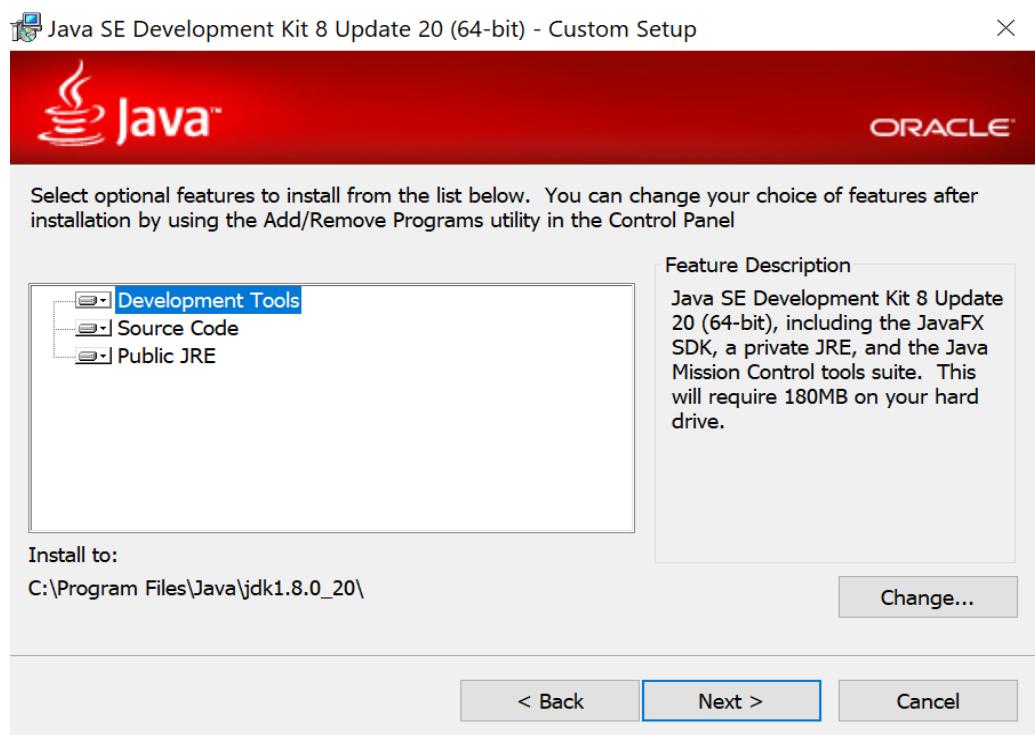


Figure 4: Installer optional features selection

1.5 Step 5

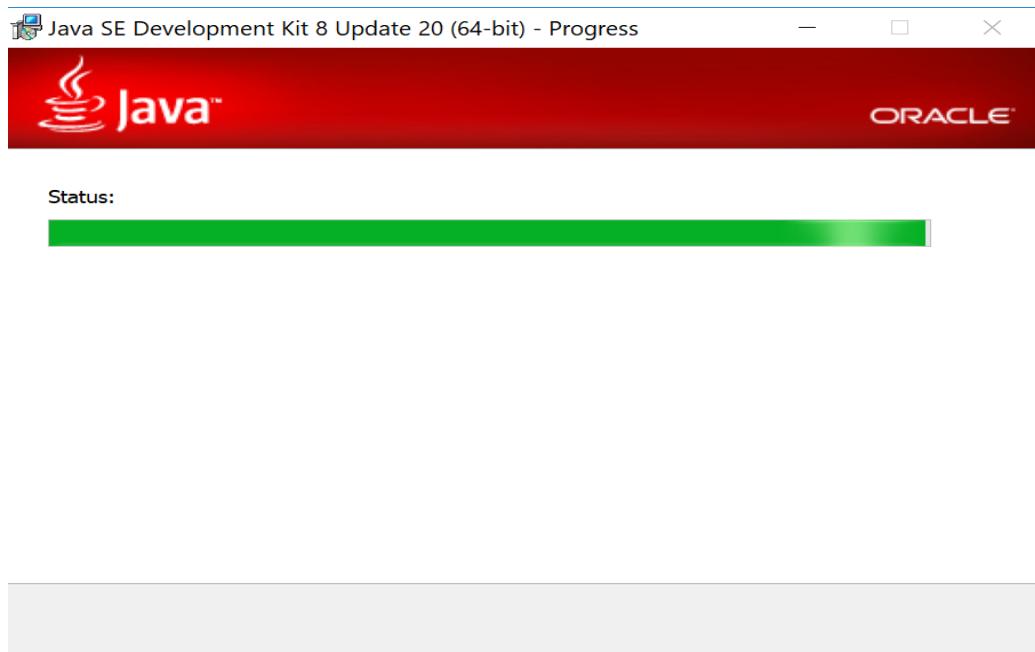


Figure 5: Installer status

1.6 Step 6

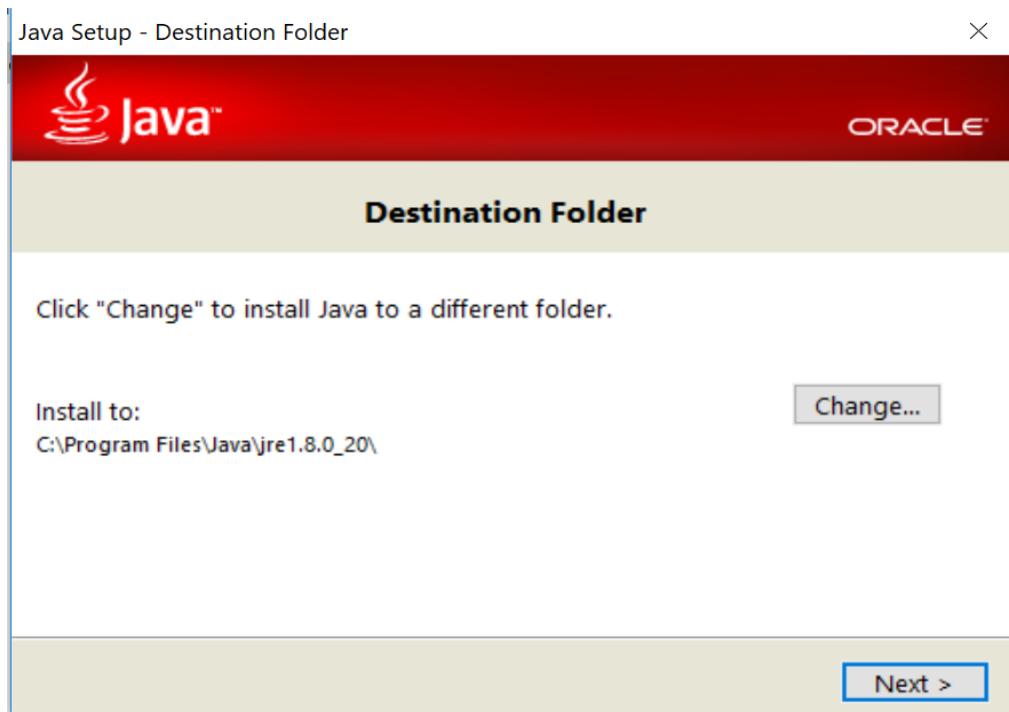


Figure 6: Destination Folder Selection

1.7 Step 7



Figure 7: Installing Java

1.8 Step 8

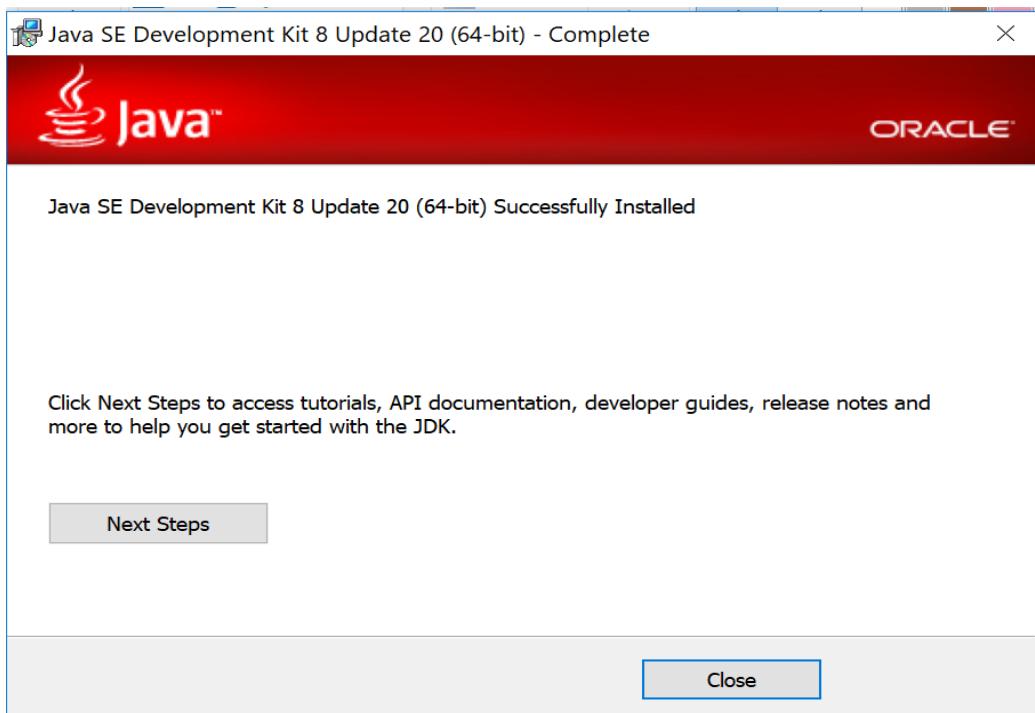


Figure 8: Installation Complete

2. Step to Install NETBEANS 8.2 IDE

2.1 Step 1

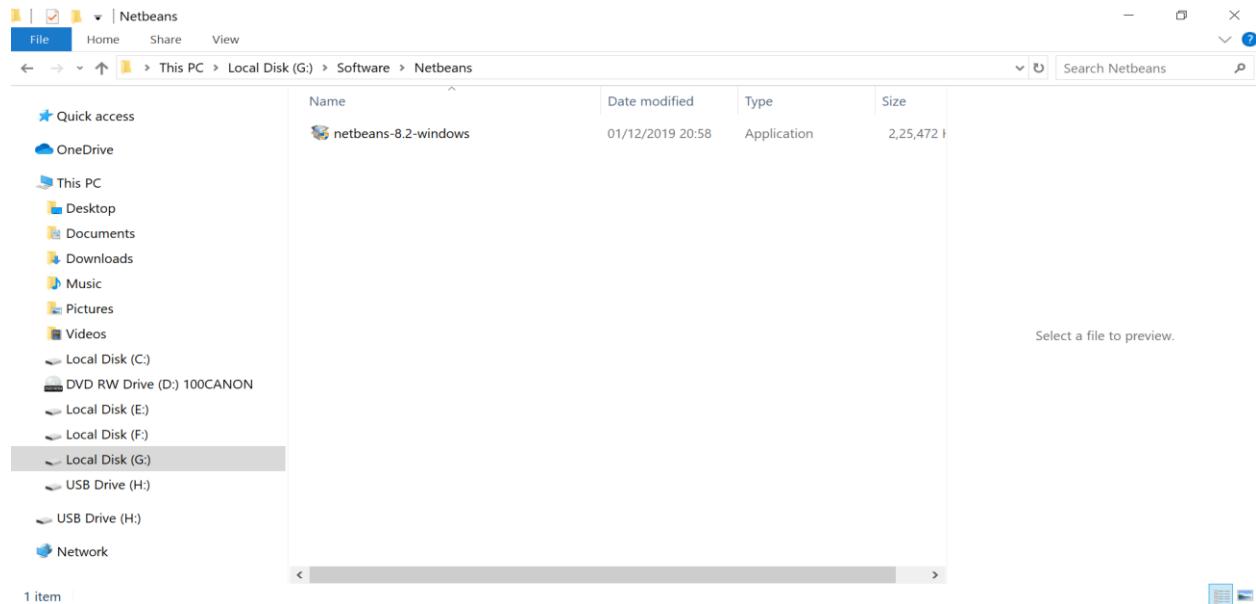


Figure 9: NetBeans Installation File

2.2 Step 2

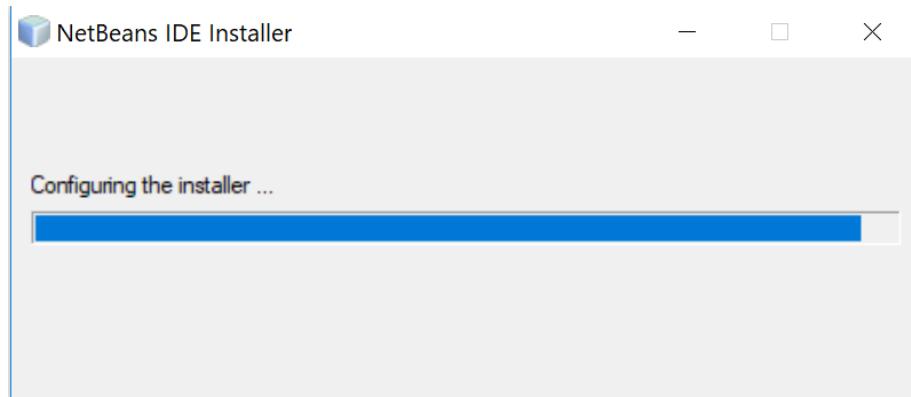


Figure 10: Configuring the Installer

2.3 Step 3

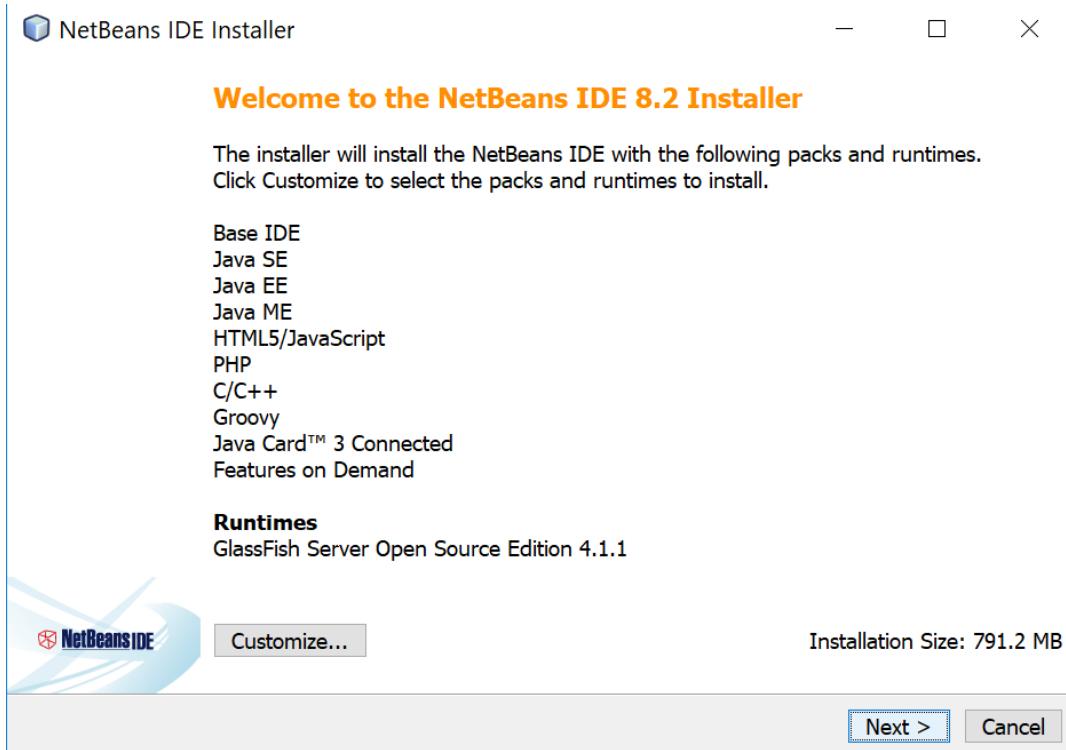


Figure 11: Installation Welcome page

2.4 Step 4

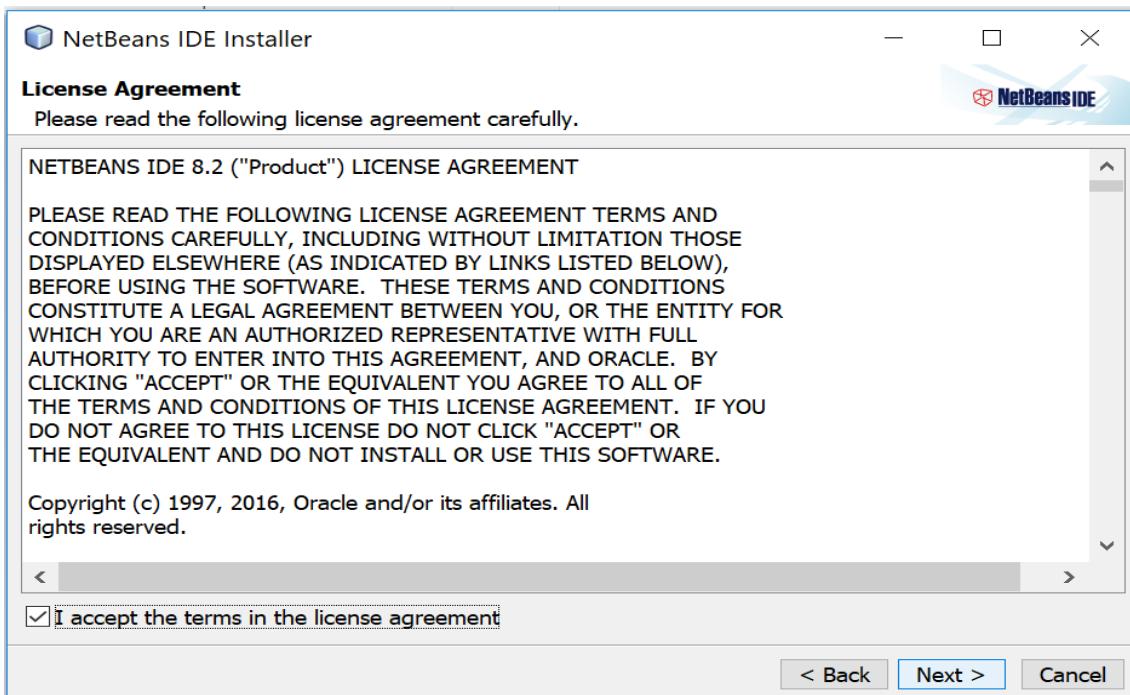


Figure 12: Terms and Conditions

2.5 Step 5

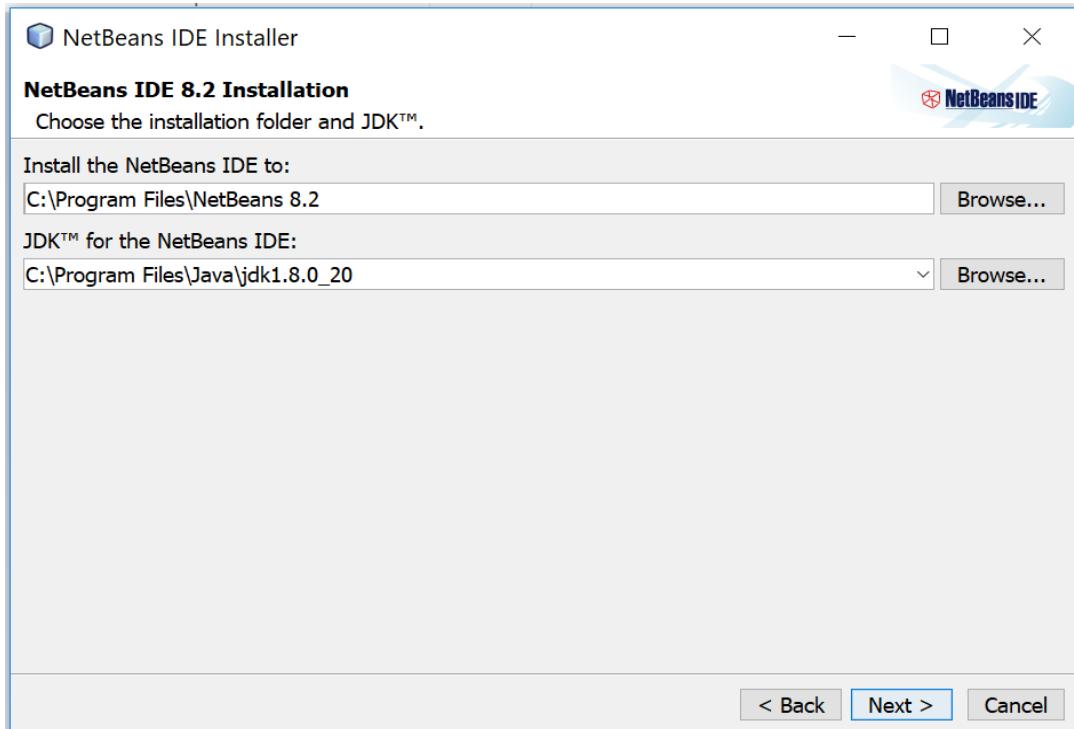


Figure 13: Installation Destination Folder Selection

2.6 Step 6

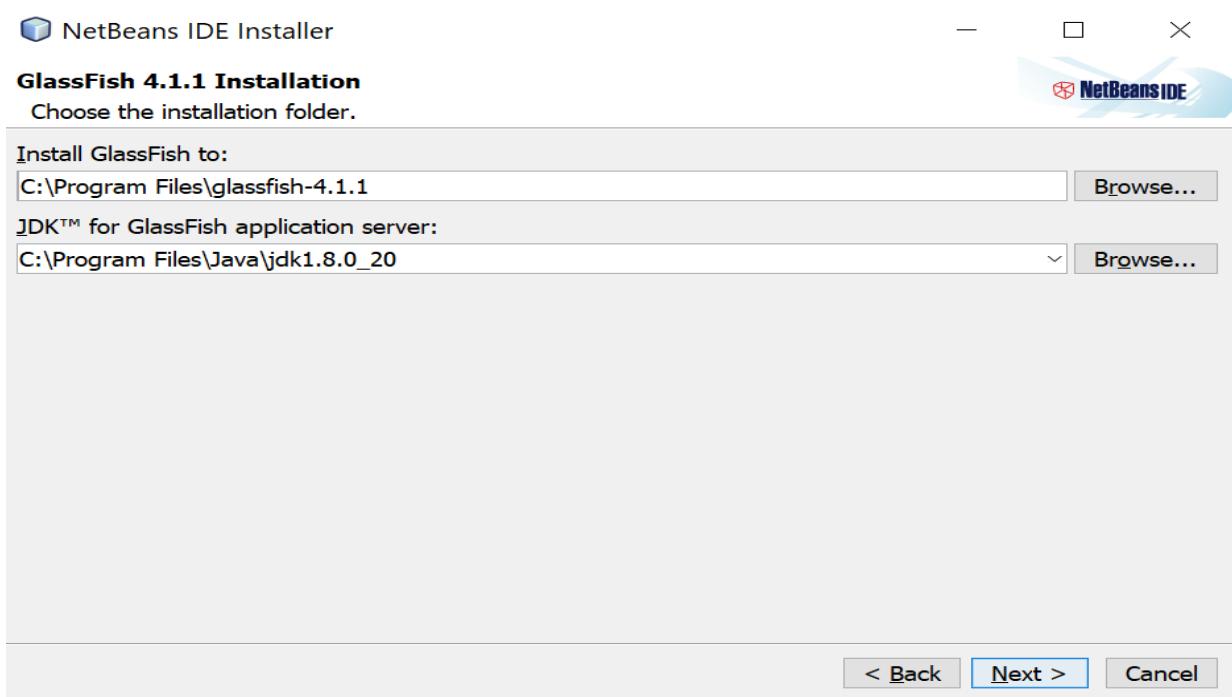


Figure 14: GlassFish Server Installation Destination folder selection

2.7 Step 7

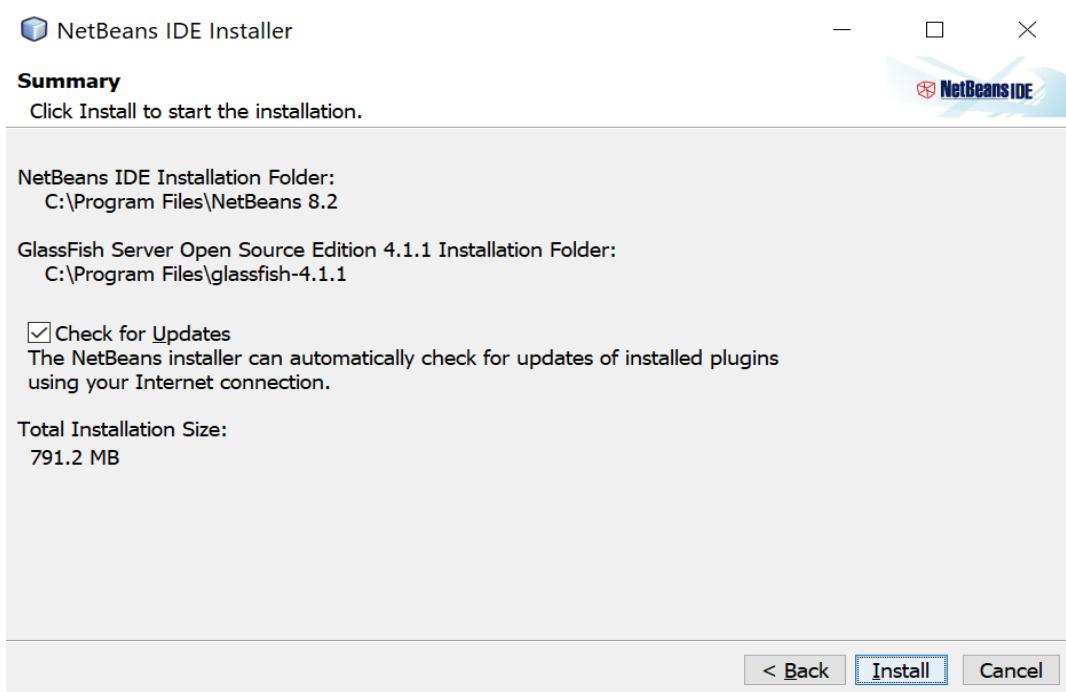


Figure 15: Installer Summary

2.8 Step 8

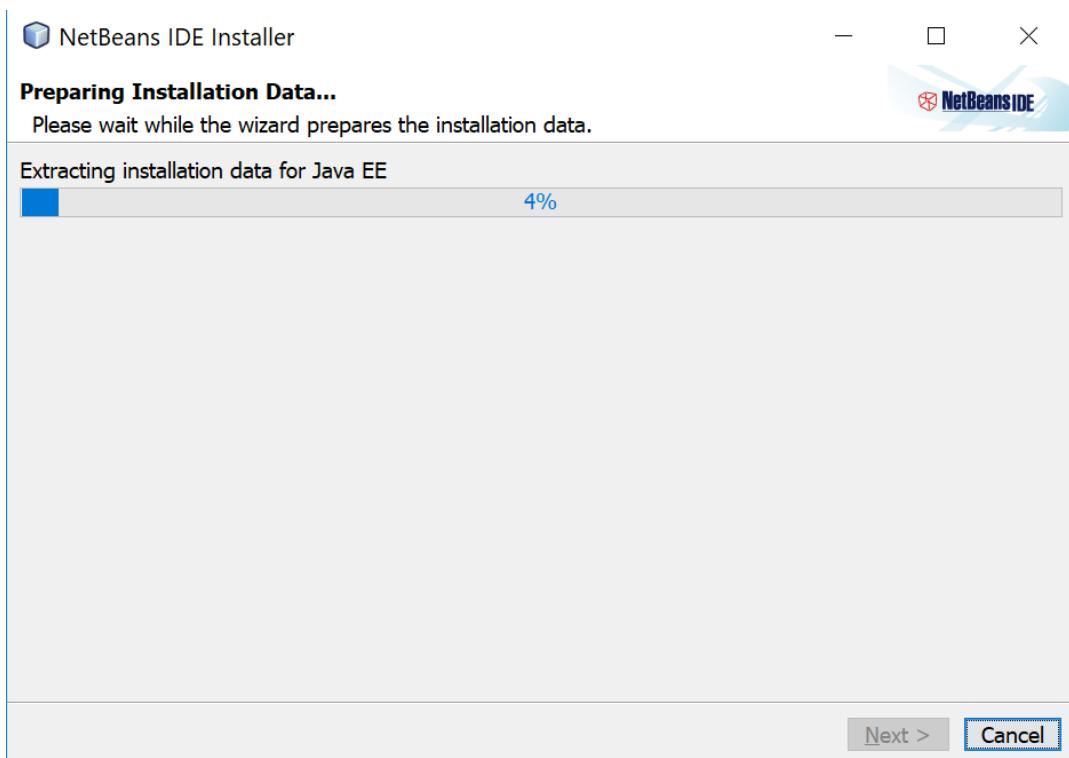


Figure 16: Installing NetBeans IDE

2.9 Step 9

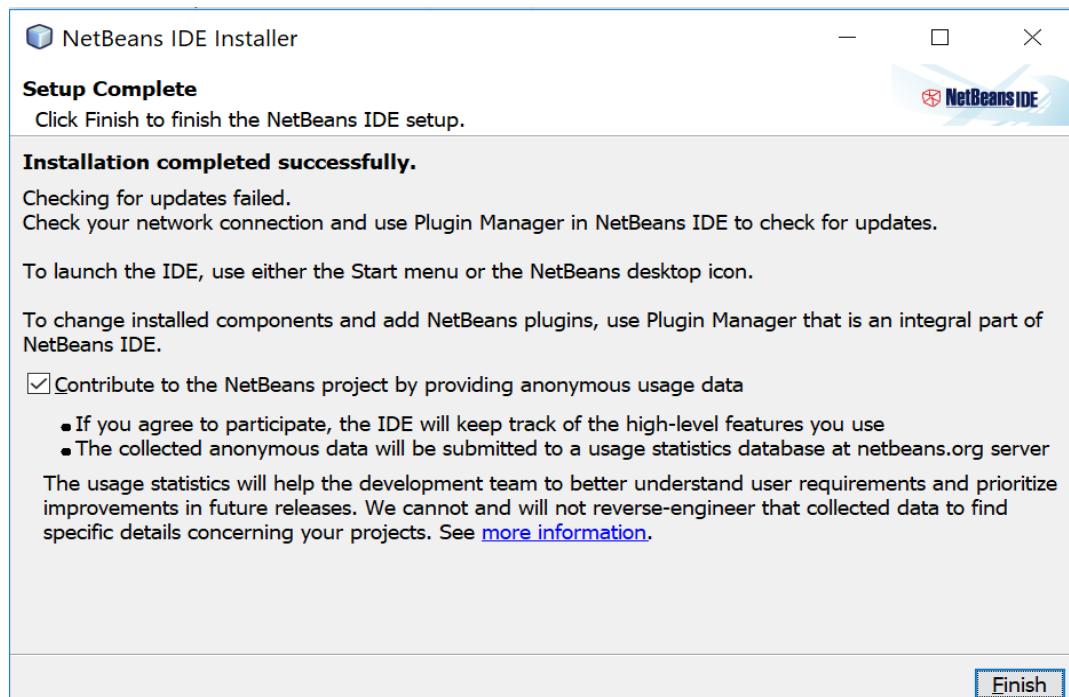


Figure 17: NetBeans Installation Complete

3. Steps to Install MYSQL Backend Database server

3.1 Step 1

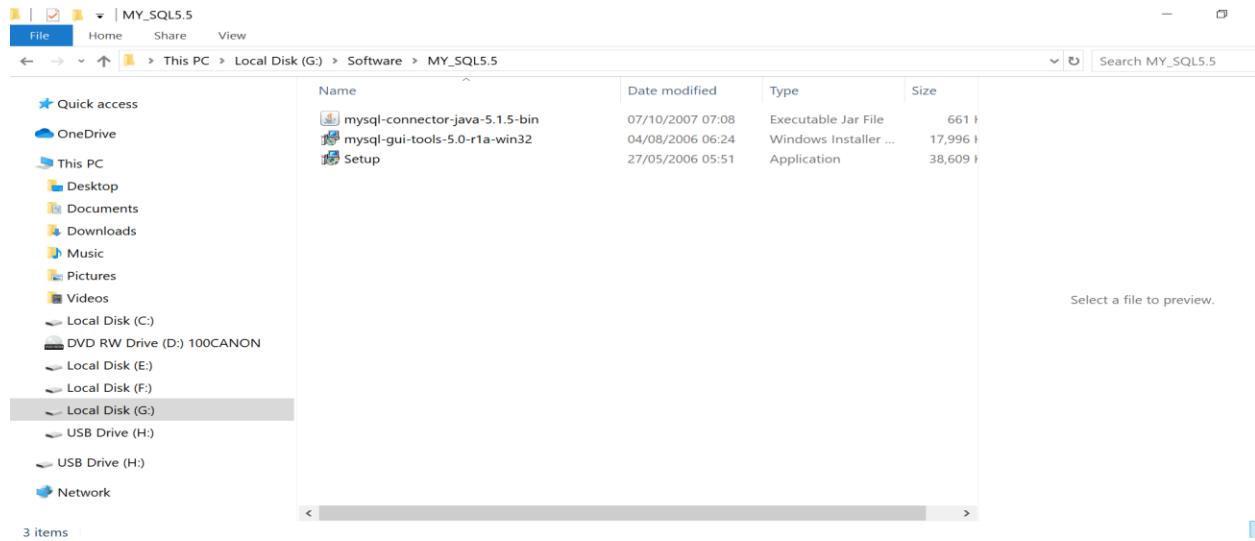


Figure 18: MySQL Installation Files

3.2 Step 2



Figure 19: MySQL Installation Setup Wizard

3.3 Step 3

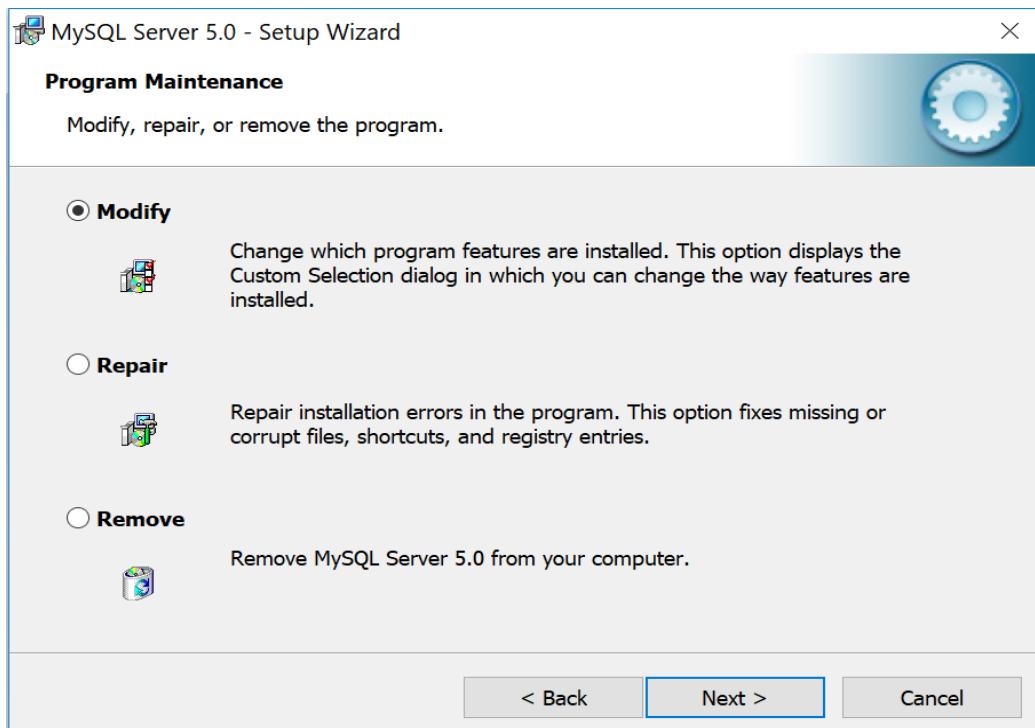


Figure 20: Installer type Selection

3.4 Step 4

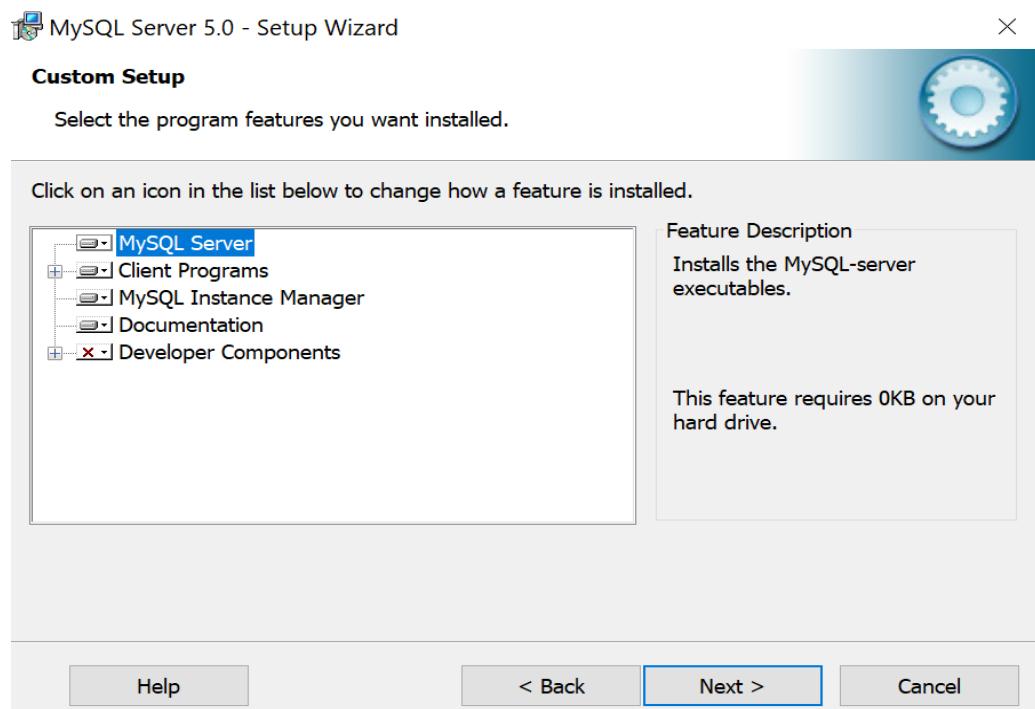


Figure 21: Installation Features Selection

3.5 Step 5

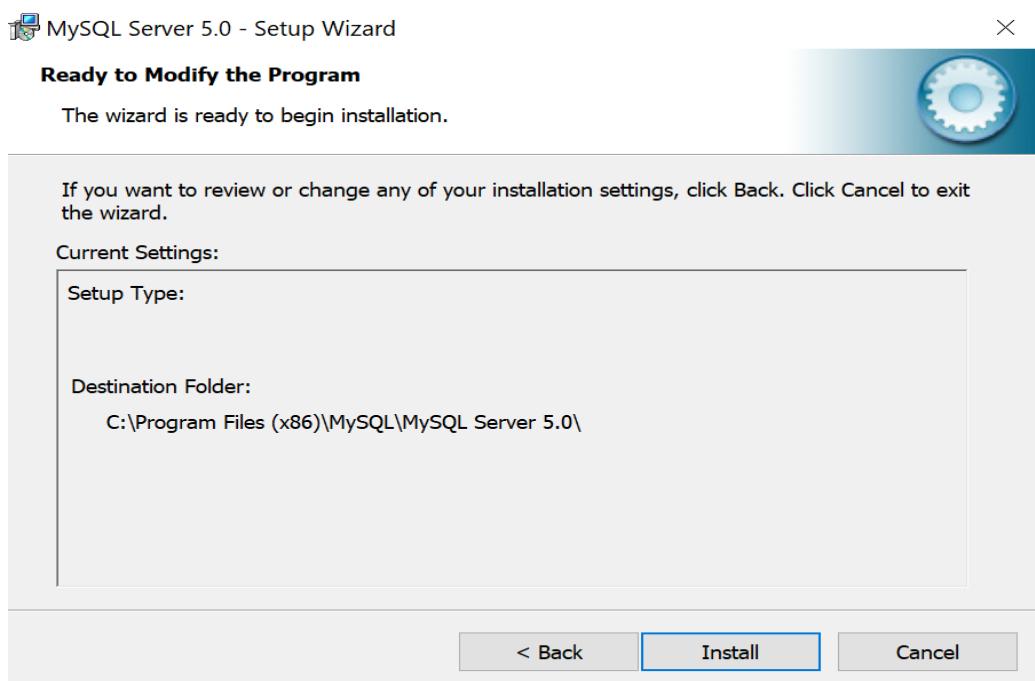


Figure 22: Installer Review

3.6 Step 6

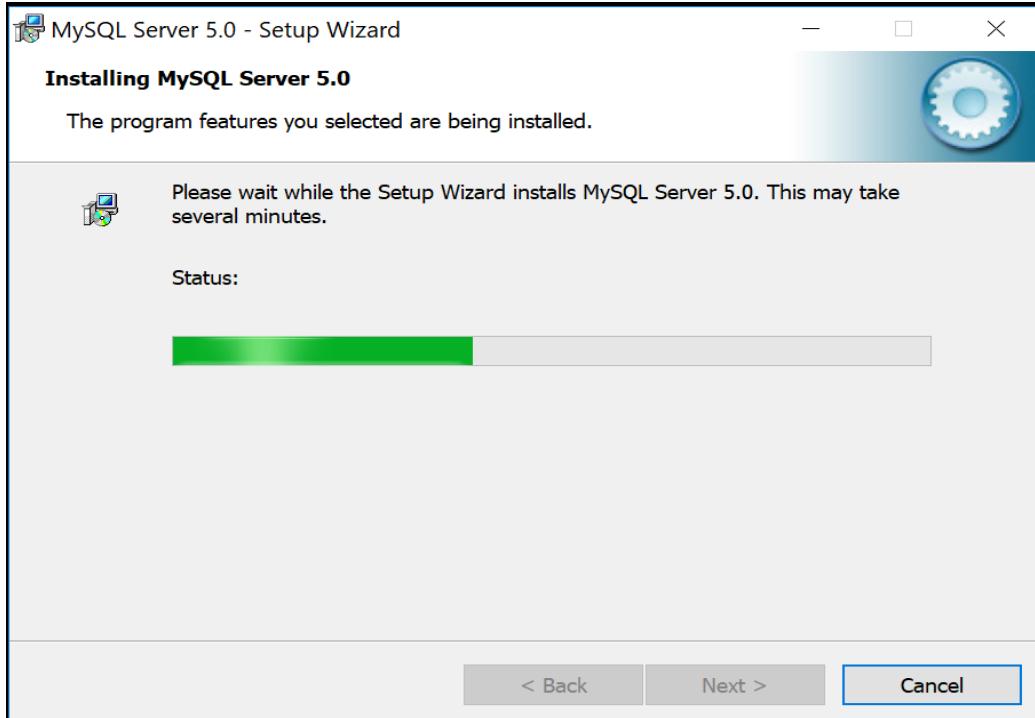


Figure 23: Installing MySQL

3.7 Step 7



Figure 24: Installer Wizard Completed

3.8 Step 8

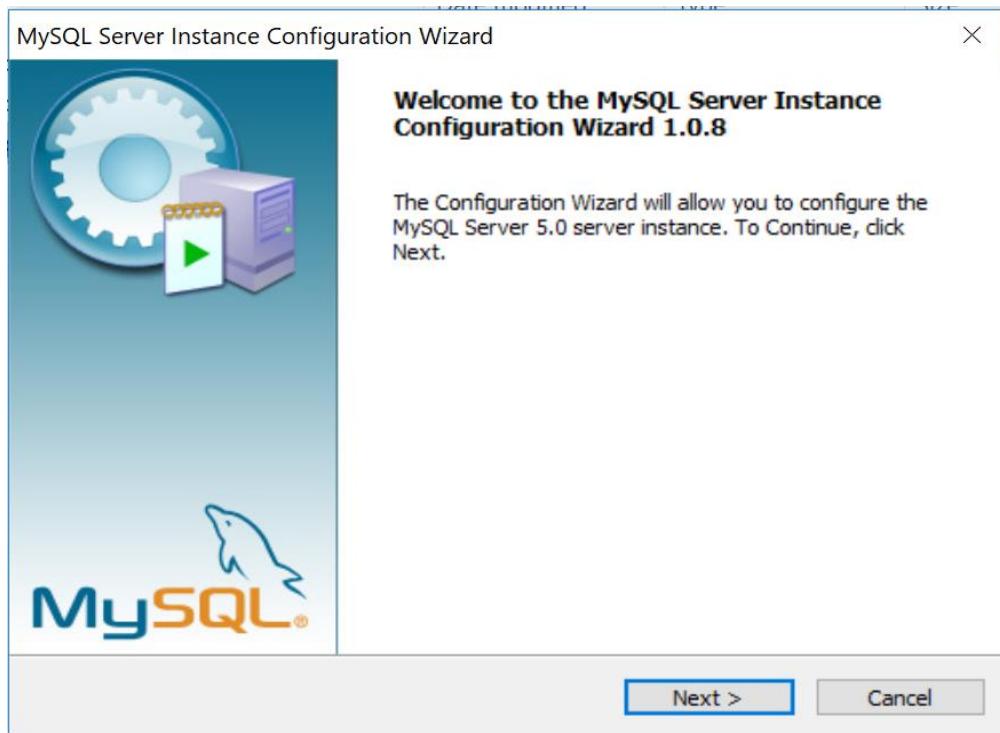


Figure 25: MySQL server instance configuration wizard

3.9 Step 9

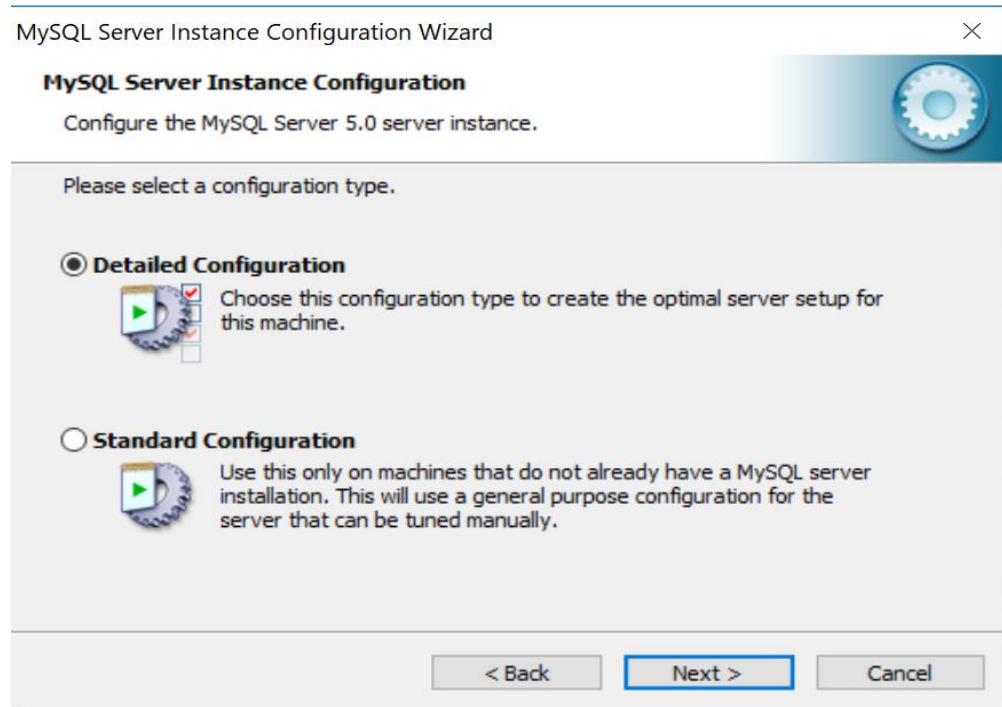


Figure 26: Configuration type selection

3.10 Step 10

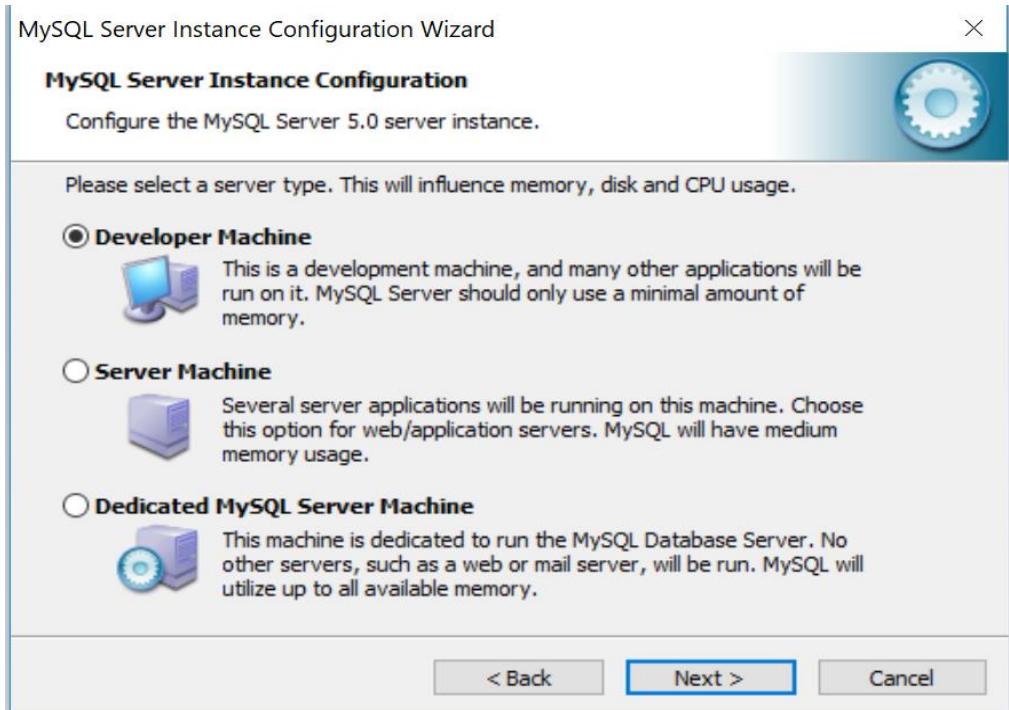


Figure 27: Sever Type Selection

3.11 Step 11

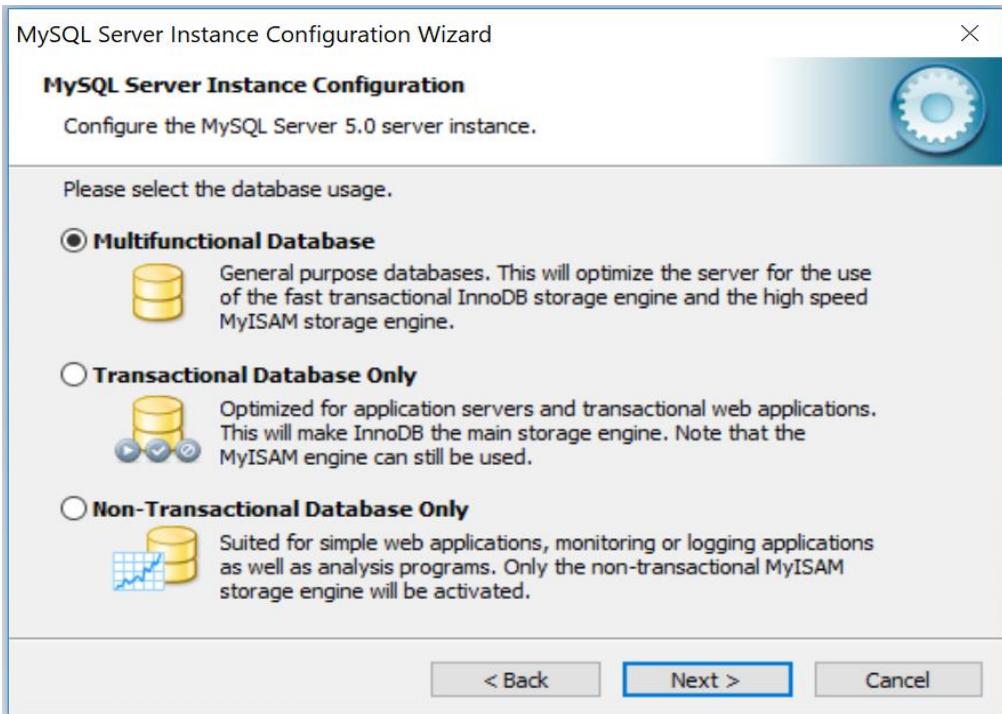


Figure 28: Database Usage Selection

3.12 Step 12

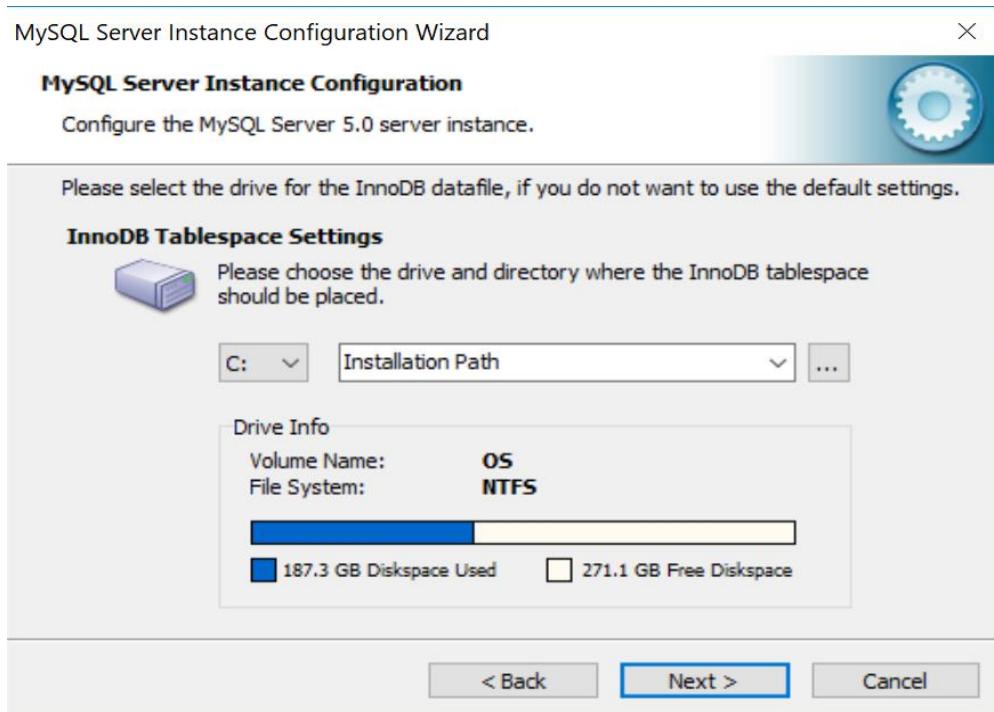


Figure 29: Table Space settings

3.13 Step 13

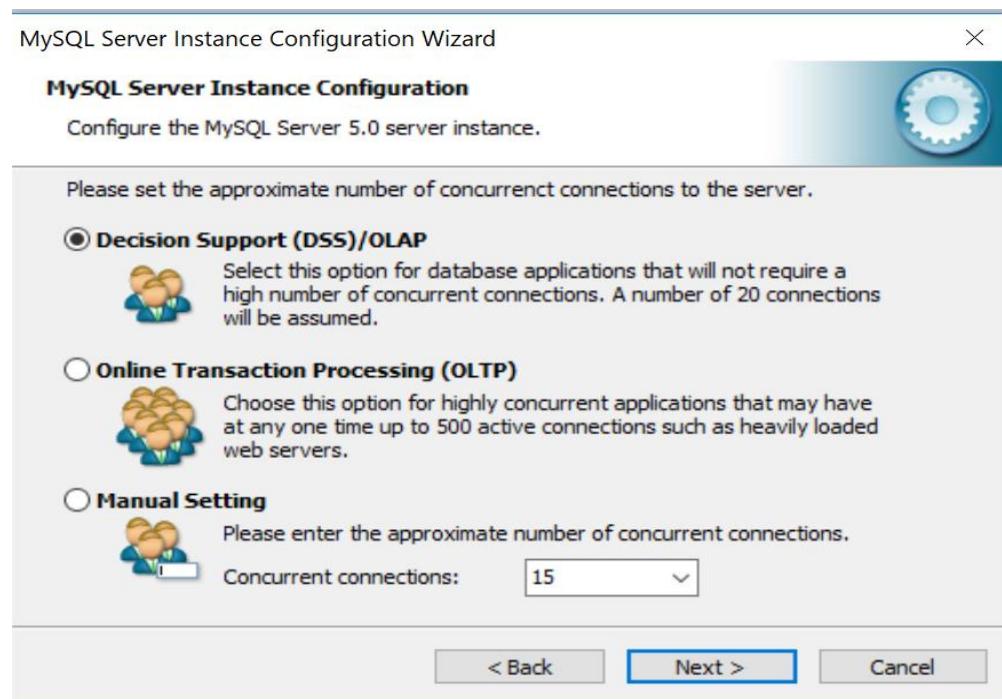


Figure 30: Concurrent connection selection

3.14 Step 14

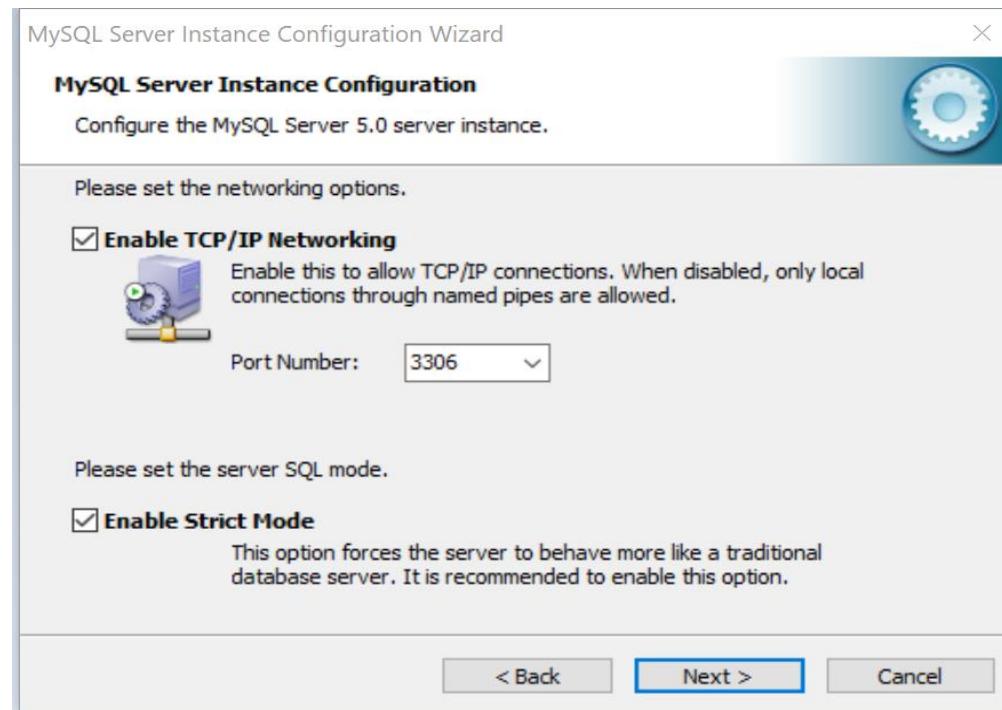


Figure 31: Networking options selection

3.15 Step 15

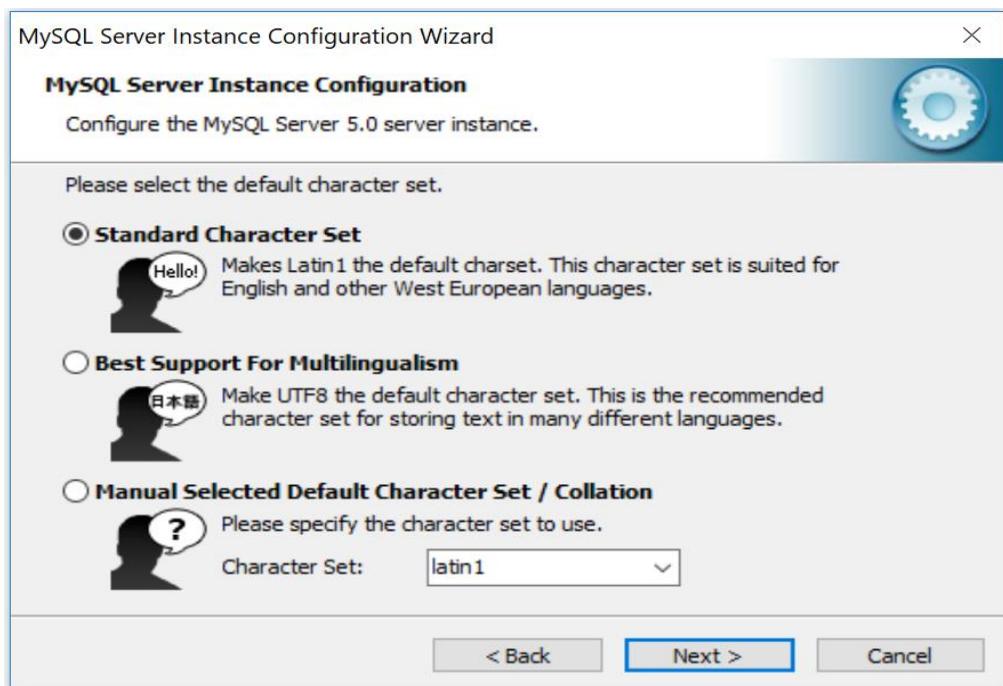


Figure 32: Default character set selection

3.16 Step 16

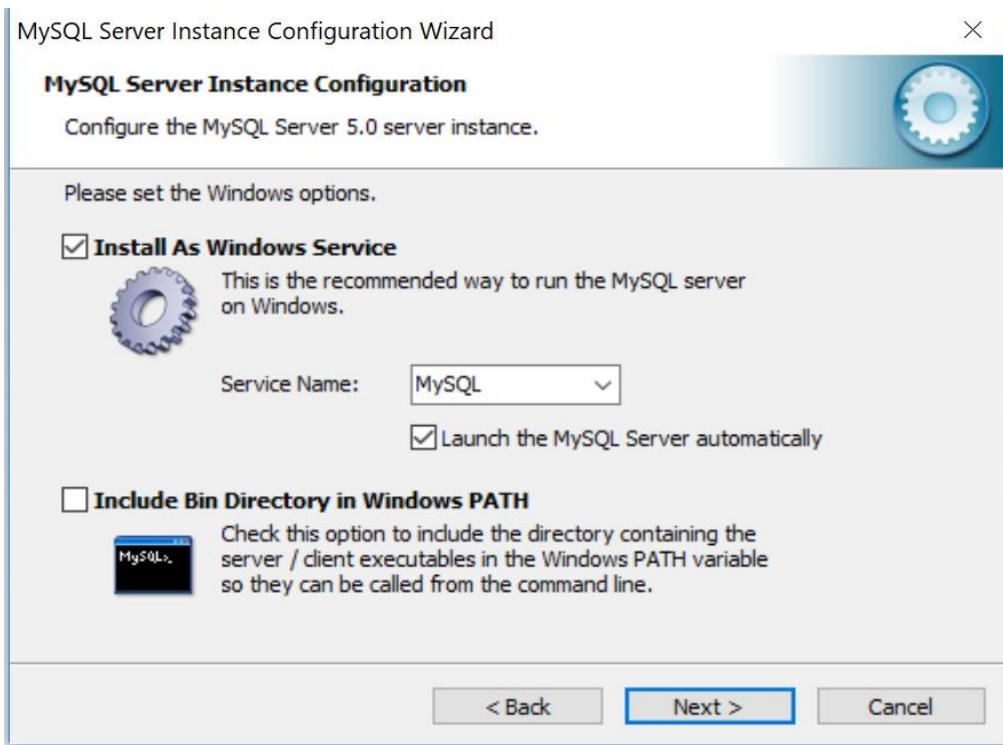


Figure 33: Windows service option selection

3.17 Step 17

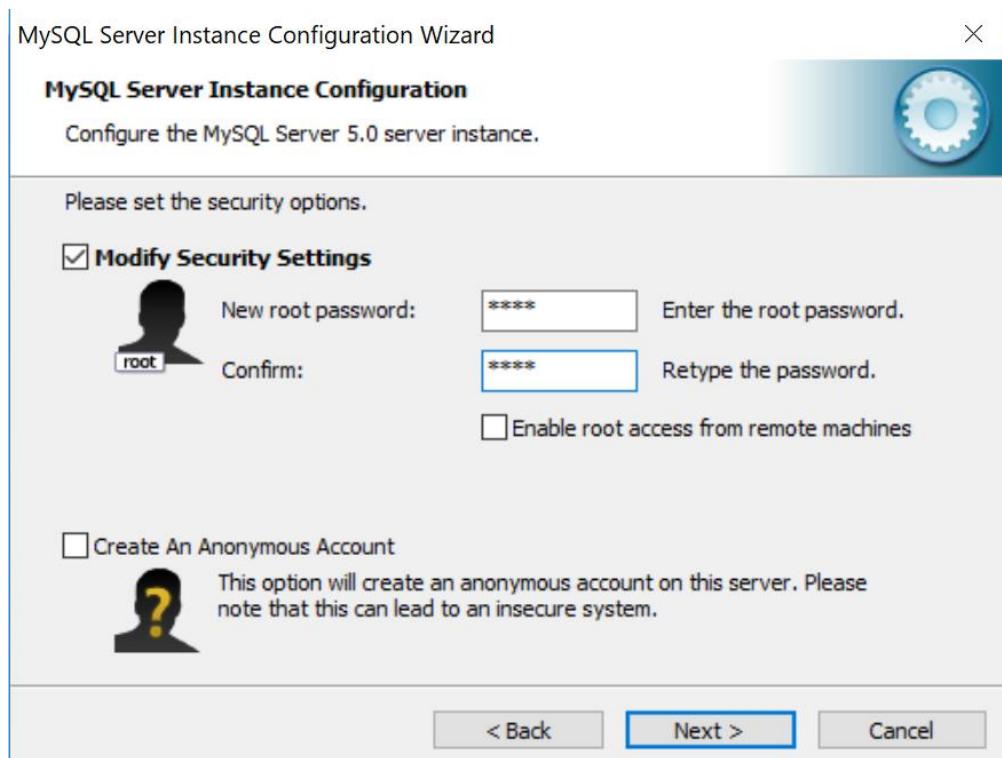


Figure 34: Set security options

3.18 Step 18

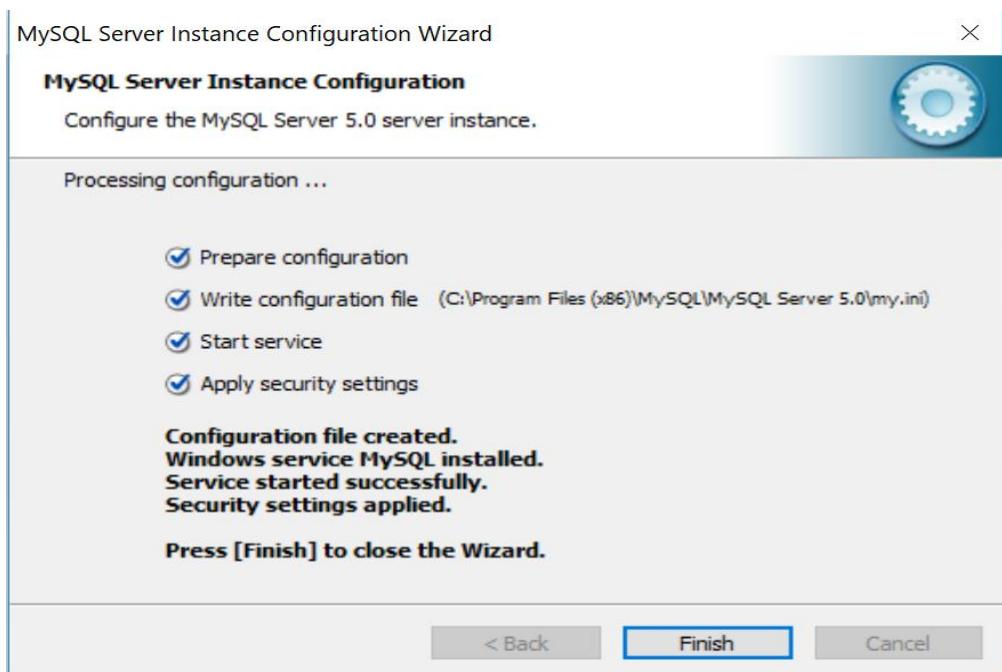


Figure 35: Successful configuration file creation.

3.19 Step 19



Figure 36: MySQL tools Setup wizard

3.20 Step 20

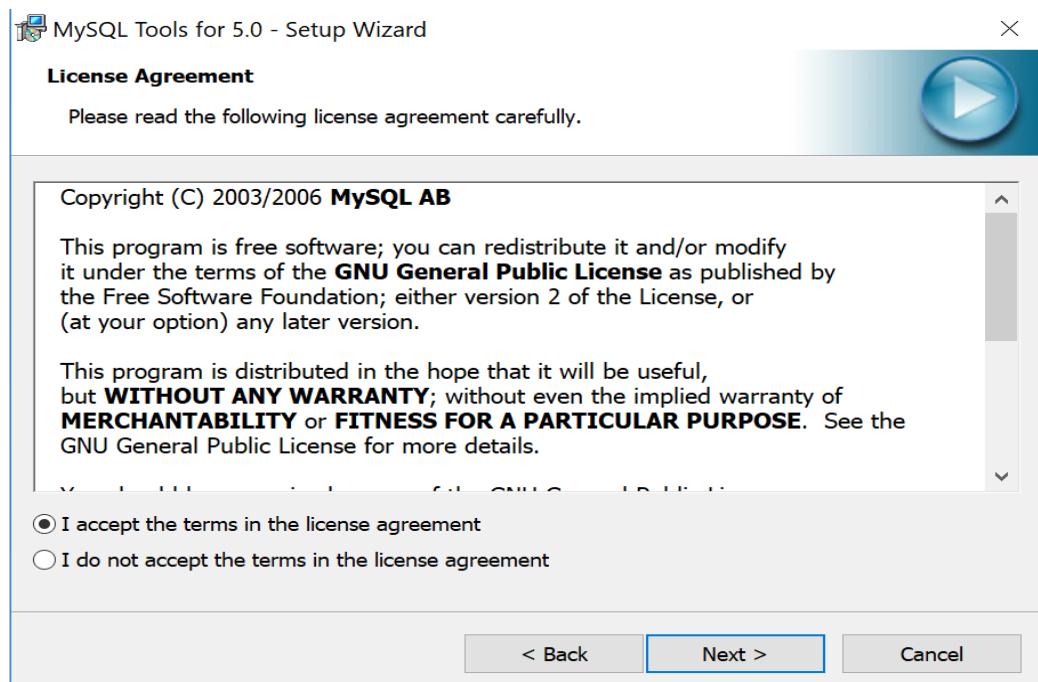


Figure 37: Terms and conditions

3.21 Step 21

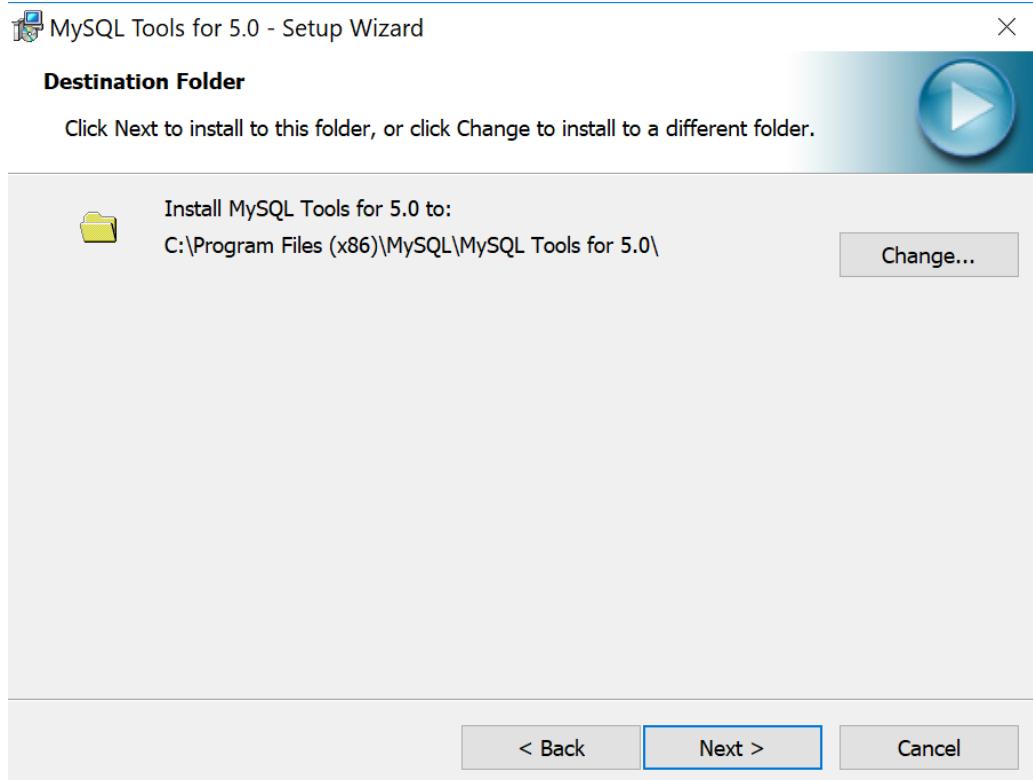


Figure 38: Destination folder selection

3.22 Step 22

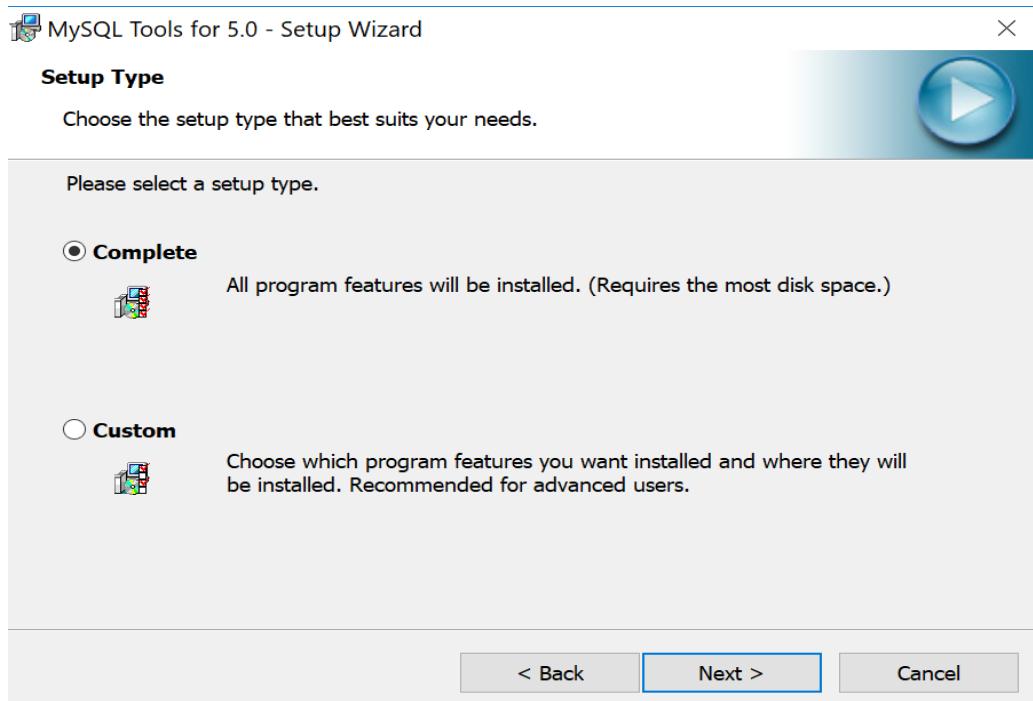


Figure 39: Setup Type selection

3.23 Step 23

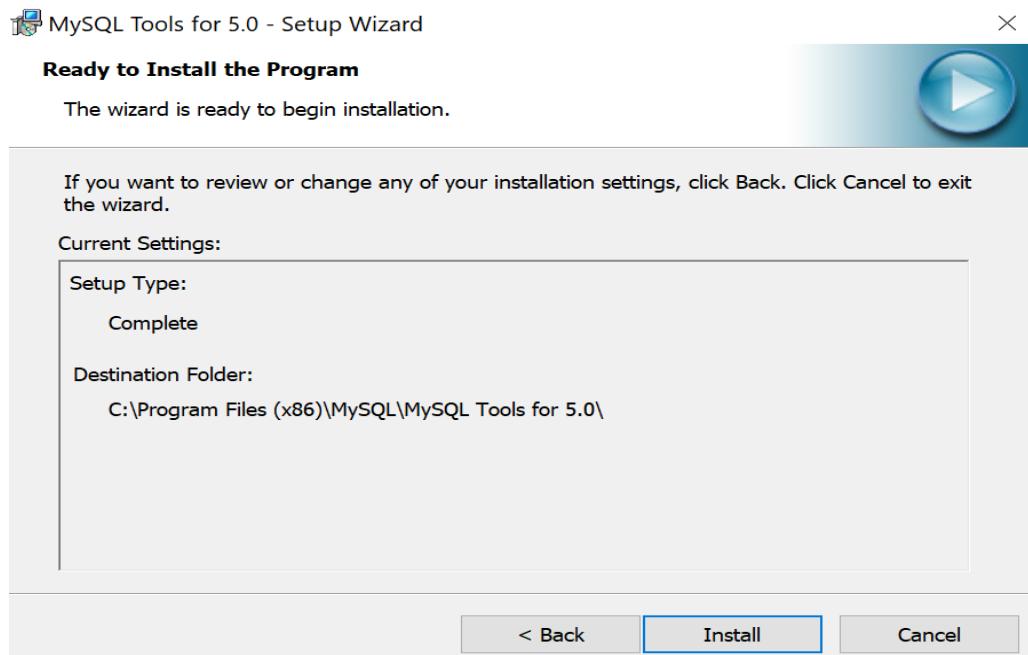


Figure 40: Ready to Install

3.24 Step 24

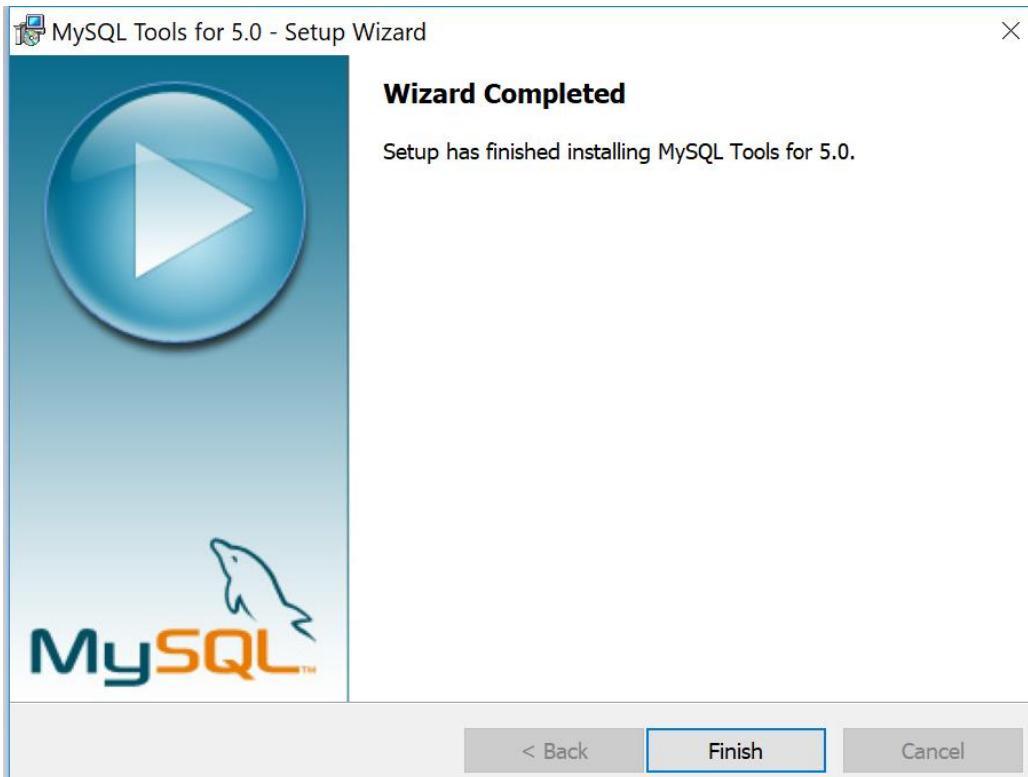


Figure 41: Setup Wizard Completed

3.25 Step 25

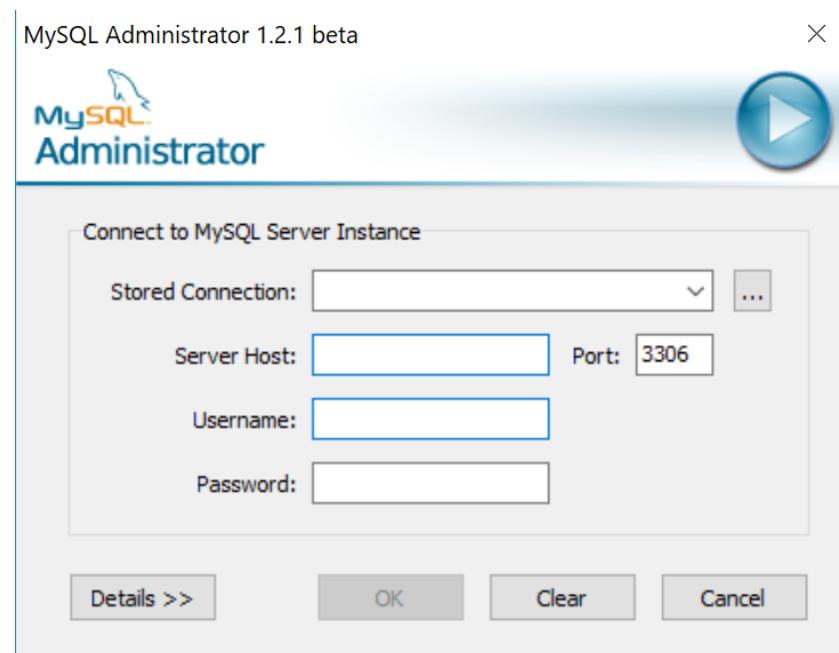


Figure 42: MySQL administrator Login page

3.26 Step 26 Creating new instance connection

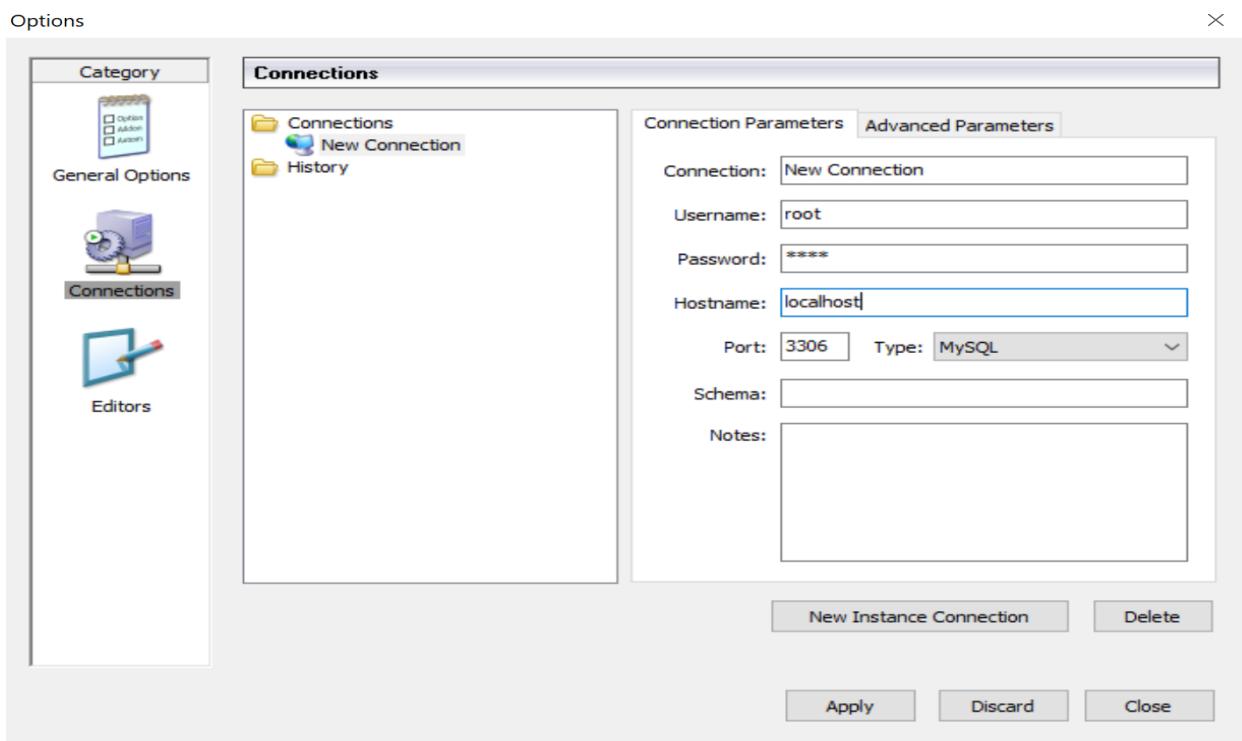


Figure 43: Creating new instance connection

3.27 Step 27

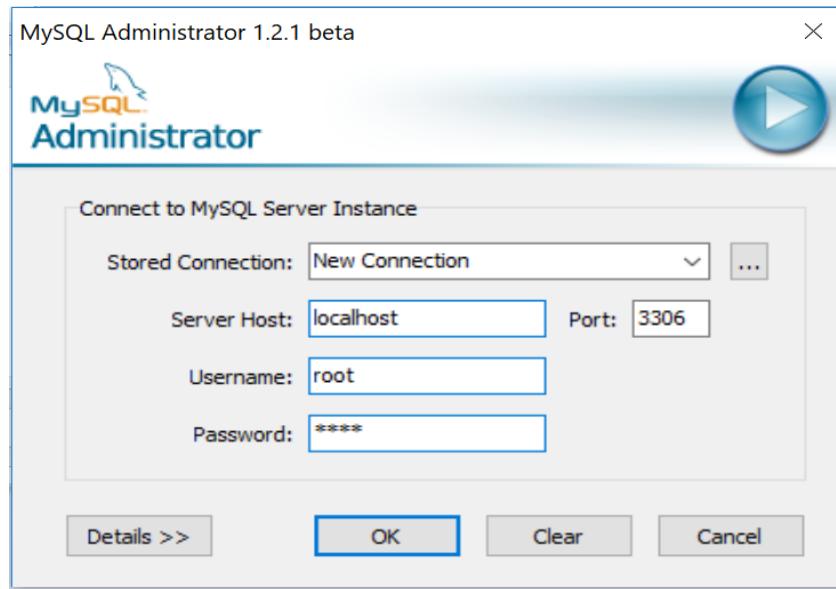


Figure 44: MySQL administrator Login

3.28 Step 28

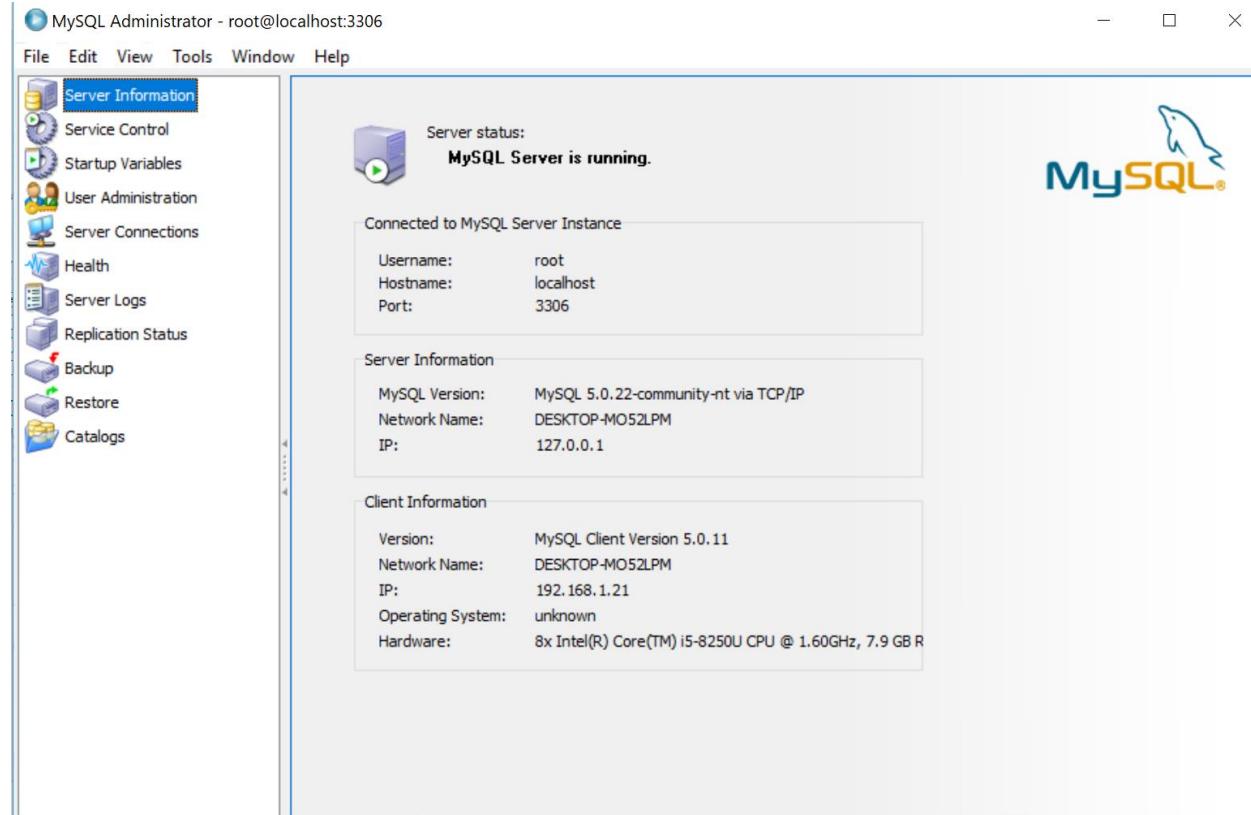


Figure 45: MySQL Dashboard

4. Project Deployment

4.1. Project Folder

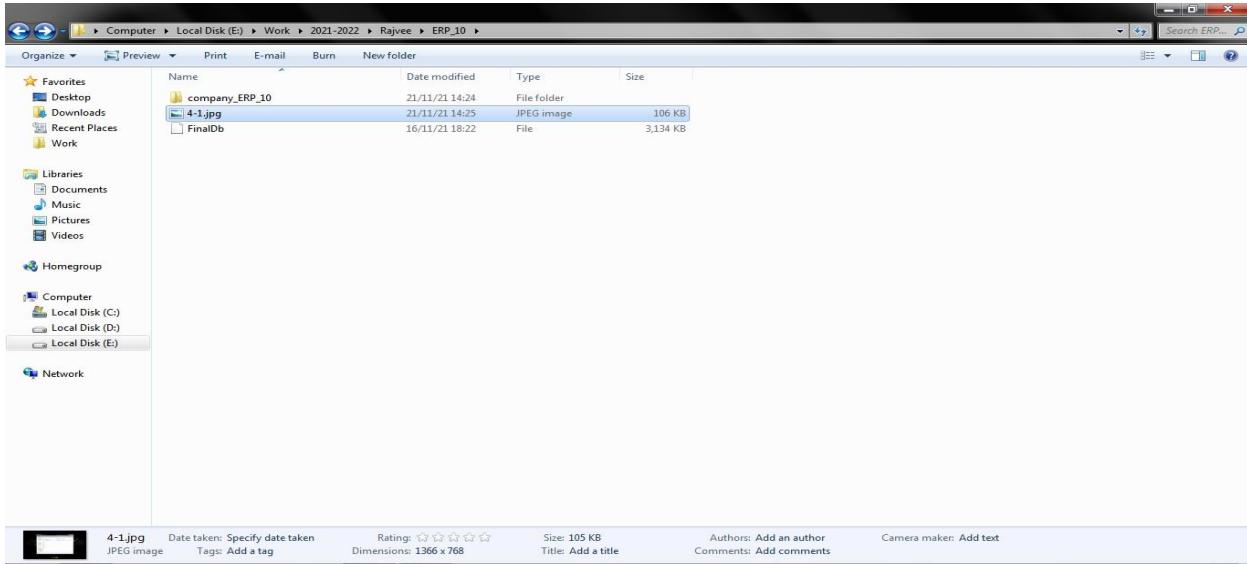


Figure 46: Project Folder

The project folder is shown here which contains the project folder named company_ERP_10 and the database file named Finaldb.

4.2. MySQL Administrator Login



Figure 47: MySQL login

The MySQL Administrator is initiated and the password root is used to get access to the database server.

4.3. MySQL Welcome page

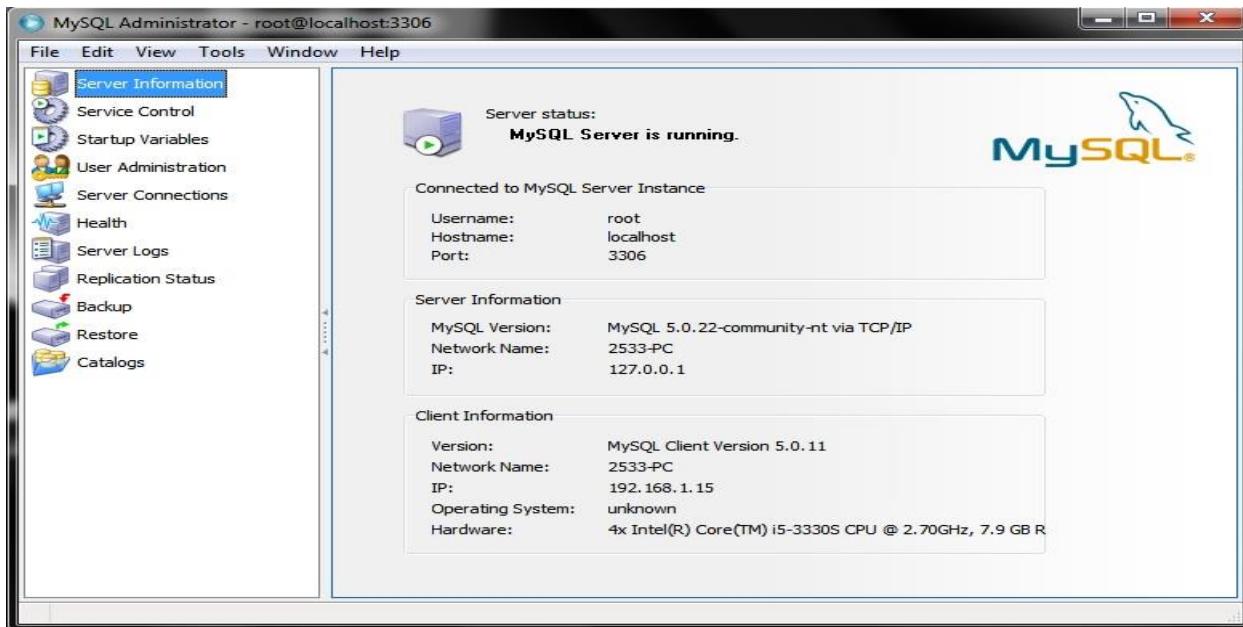


Figure 48: MySQL Welcome page

After logging into the Database server, the user is greeted with the welcome page, here, the user needs to navigate to the restore option in the left hand vertical menu.

4.4 Restore Backup Panel

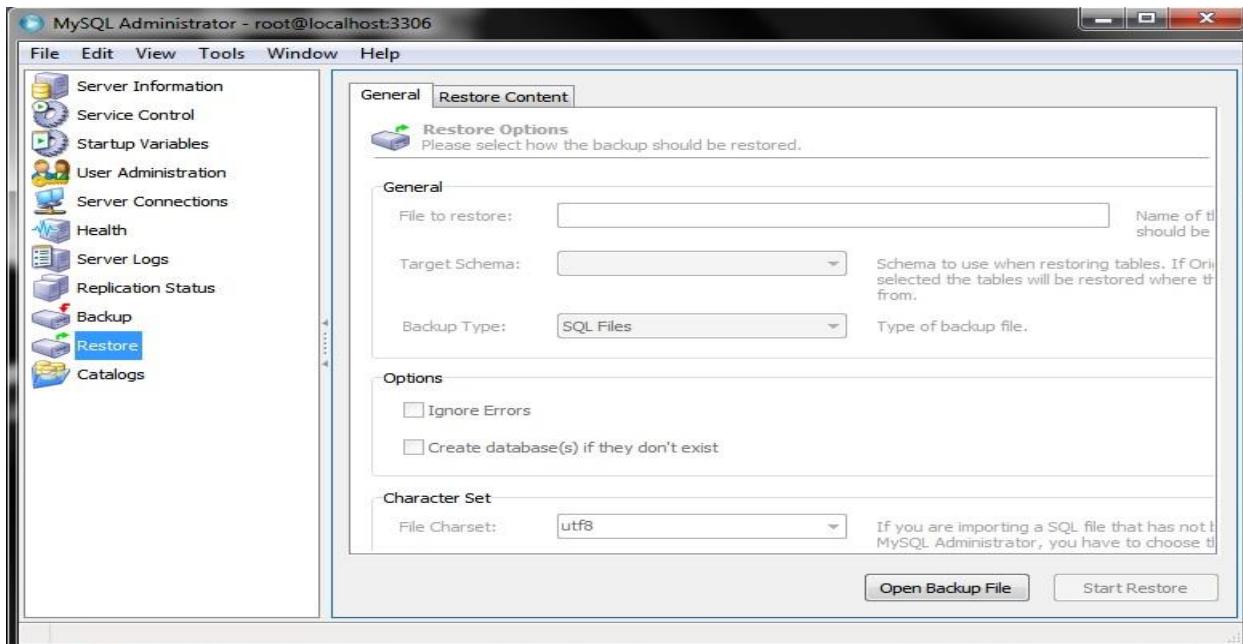


Figure 49: Restore Backup panel

This panel comes into view when the restore option on the left hand side list menu is selected.

4.5. Restore Database File Picker

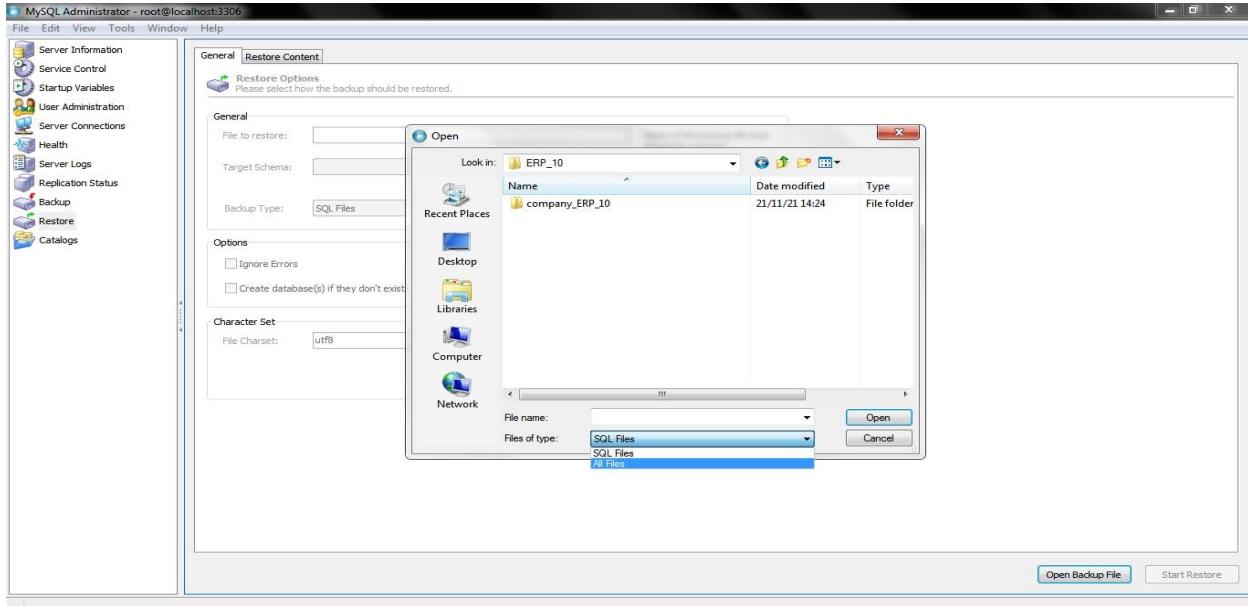


Figure 50: Restore Database File Picker

This window opens when the open backup file option is selected from the right bottom of the window.

4.6. Restore Backup File selection

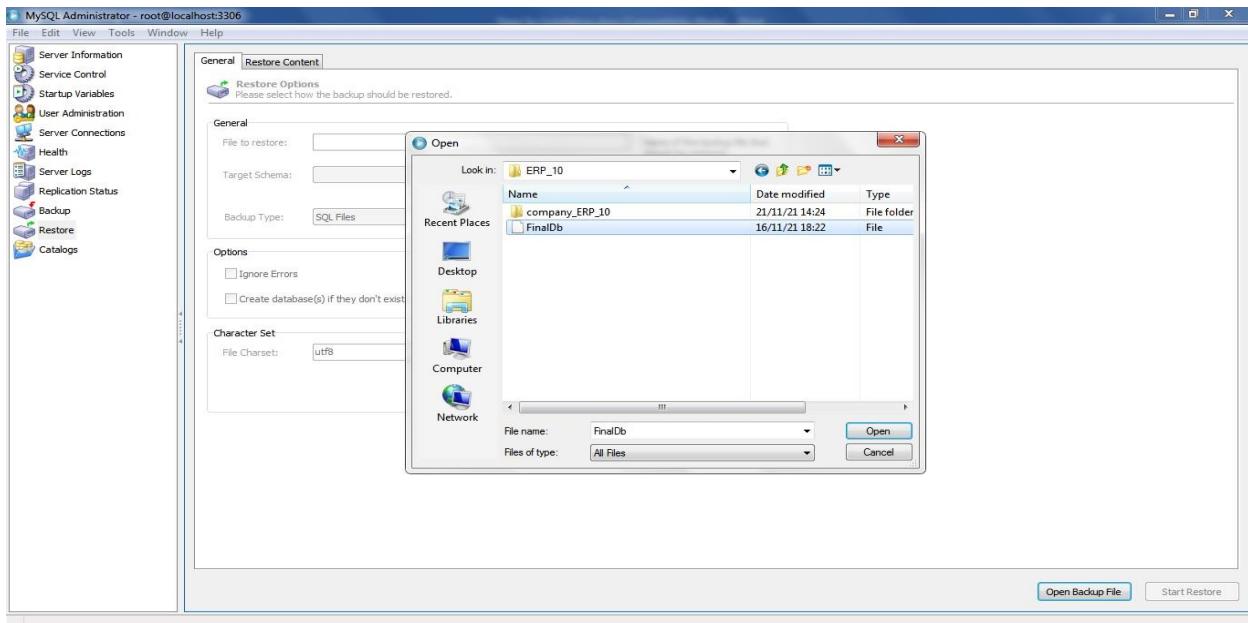


Figure 51: Restore Backup File selection

In this window the user needs to navigate to the location where the project folder is provided and select the Finaldb file and press open.

4.7. Start Restore of Database

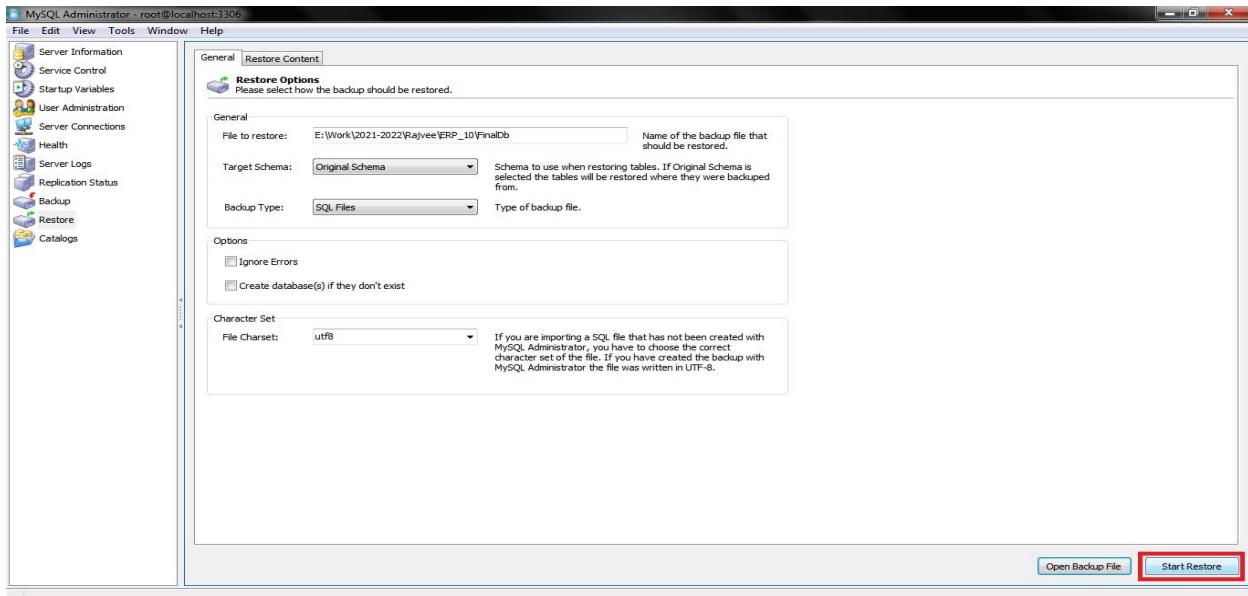


Figure 52: Start Restore of Database

After selection of the database file, the start restore option can now be selected to initiate the database restore.

4.8. Successful Database Restore

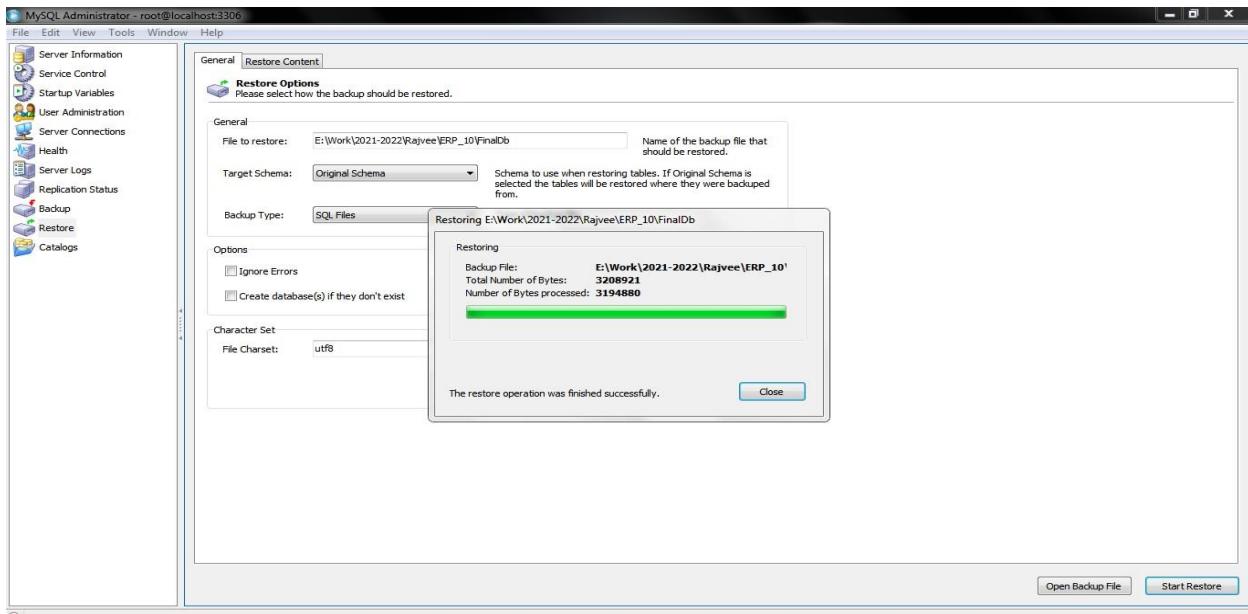


Figure 53: Successful Database Restore

Once the database is successfully restored the user is shown this window which is then closed using the close button.

4.9. Project copy

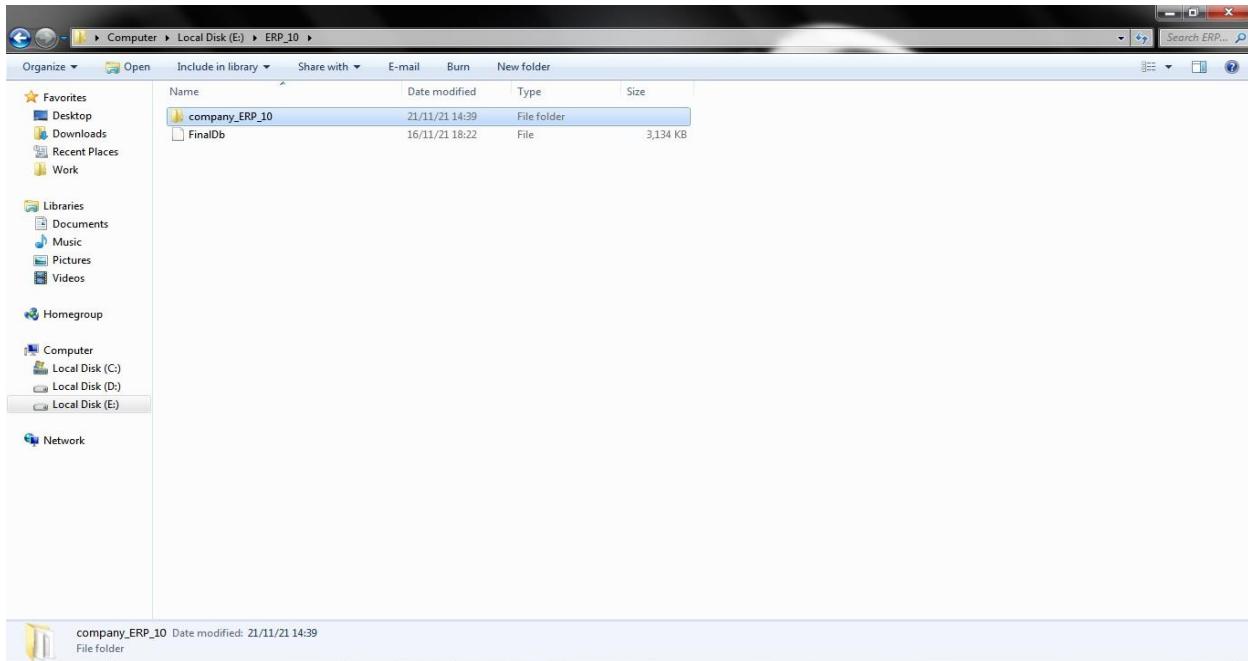


Figure 54: Project Folder

The folder in the project folder named company_ERP_10 is now shown and copied.

4.10. Project Paste

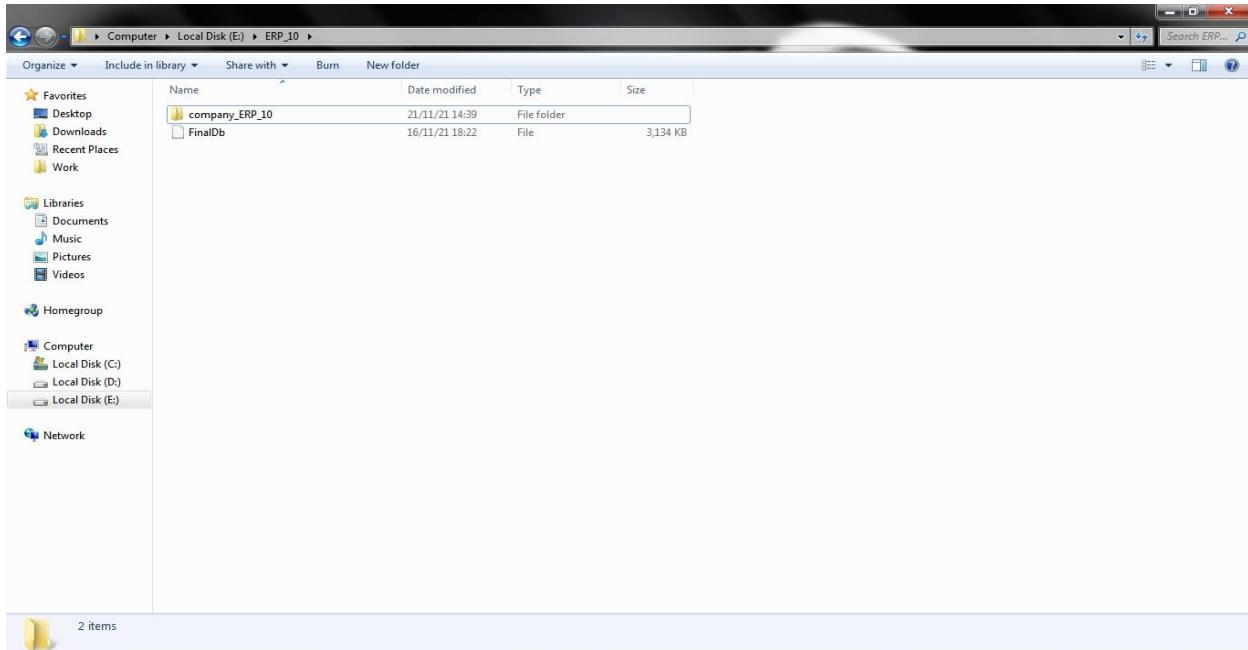


Figure 55: Project Destination Location

This copied file is then pasted in the NetBeans folder found in the documents folder.

4.11. NetBeans Initialization



Figure 56: NetBeans Splash screen

This is the NetBeans Splash screen that is seen when it is started.

4.12. Opening Project in NetBeans

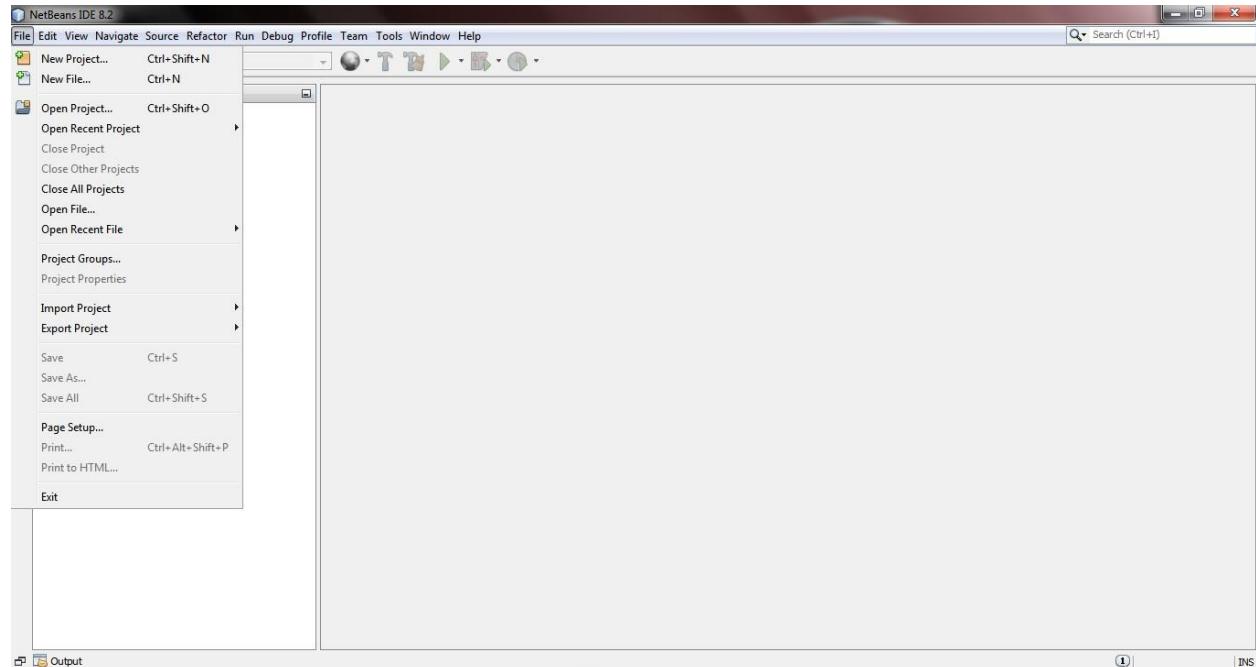


Figure 57: NetBeans Open Project

This option is seen when the open project option is selected from the file option on the left top of the NetBeans window.

4.13. Project Selection

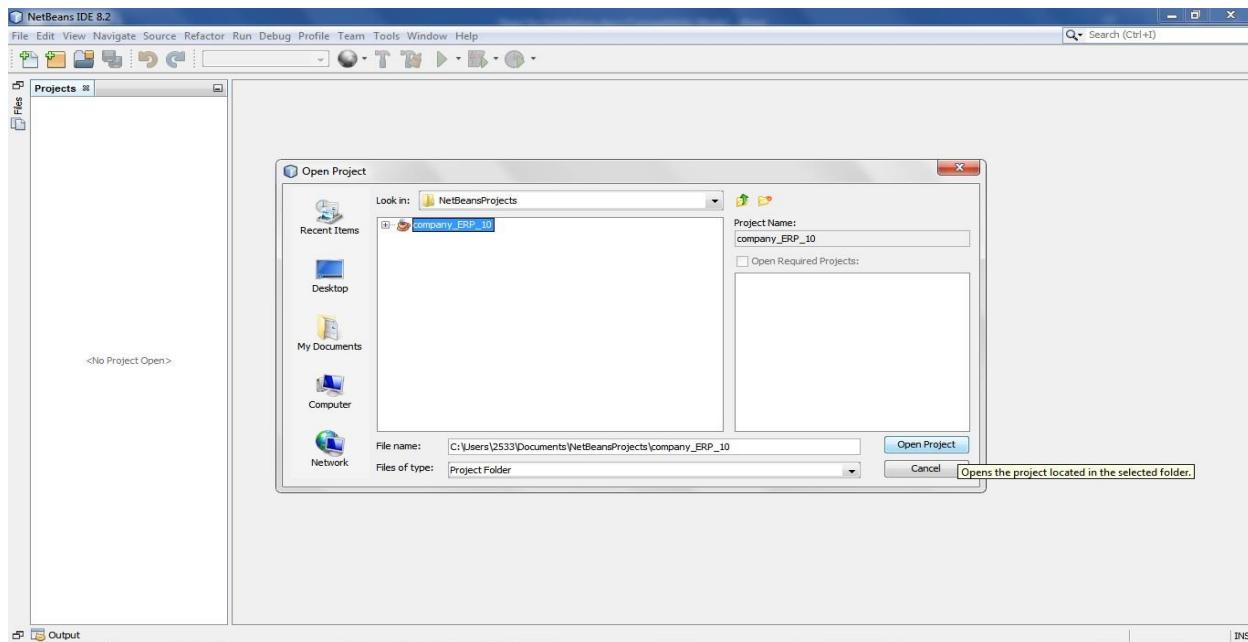


Figure 58: Project Selection

The project company_ERP_10 is then selected in the file picker and opened using the open project button on the right bottom below.

4.14. Jar file Copy

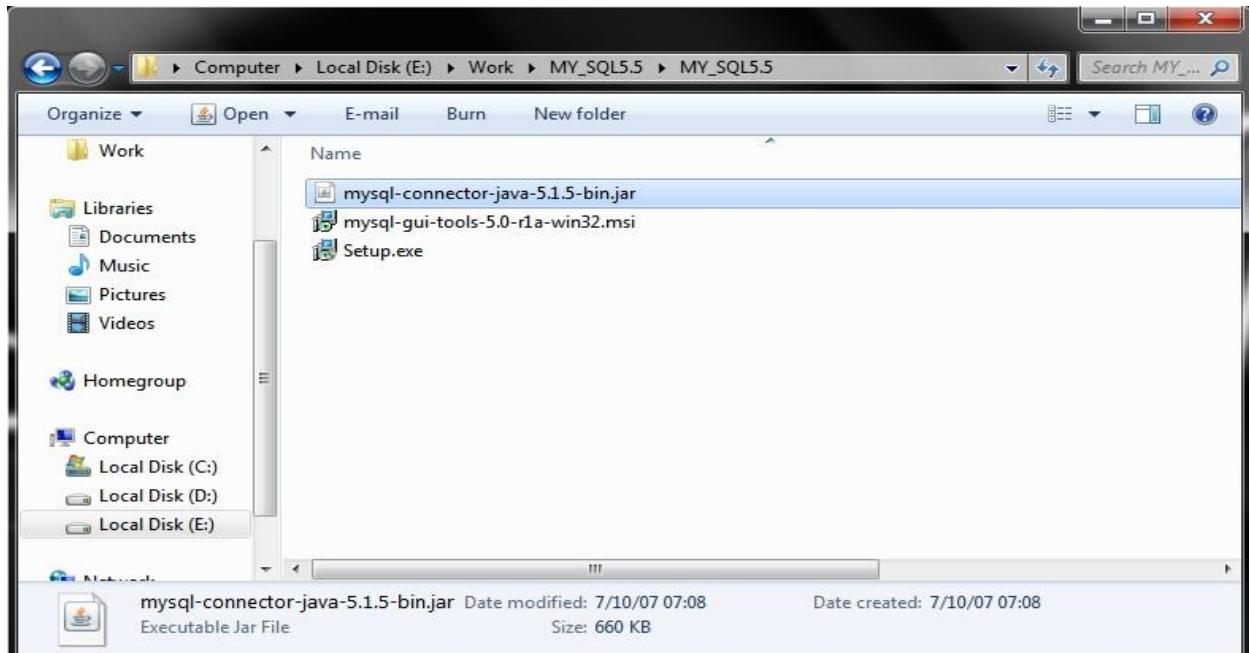


Figure 59: MySQL Java connector selection

The jar file for mysql connection is then browsed from the software folder and copied.

4.15. Jar file paste

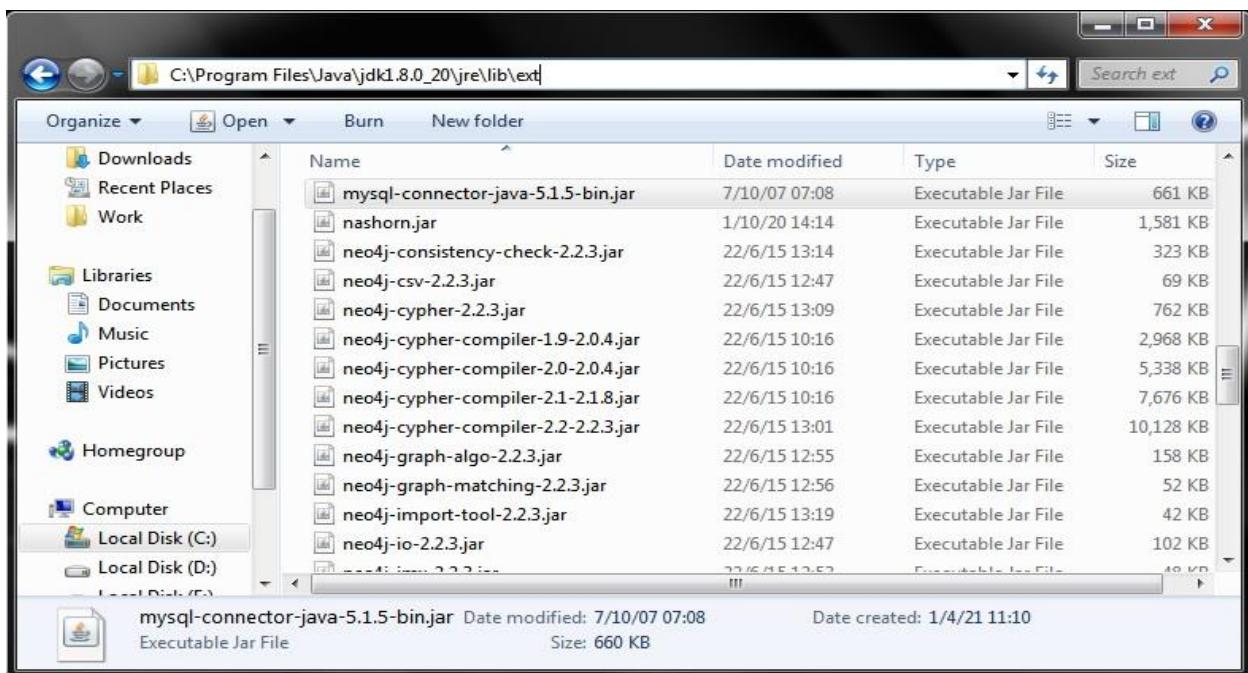


Figure 60: MySQL connector paste location

The copied jar file is then pasted in the location C:\Program Files\jdk1.8.0_20\jre\lib\ext

4.16. Add Jar/Folder

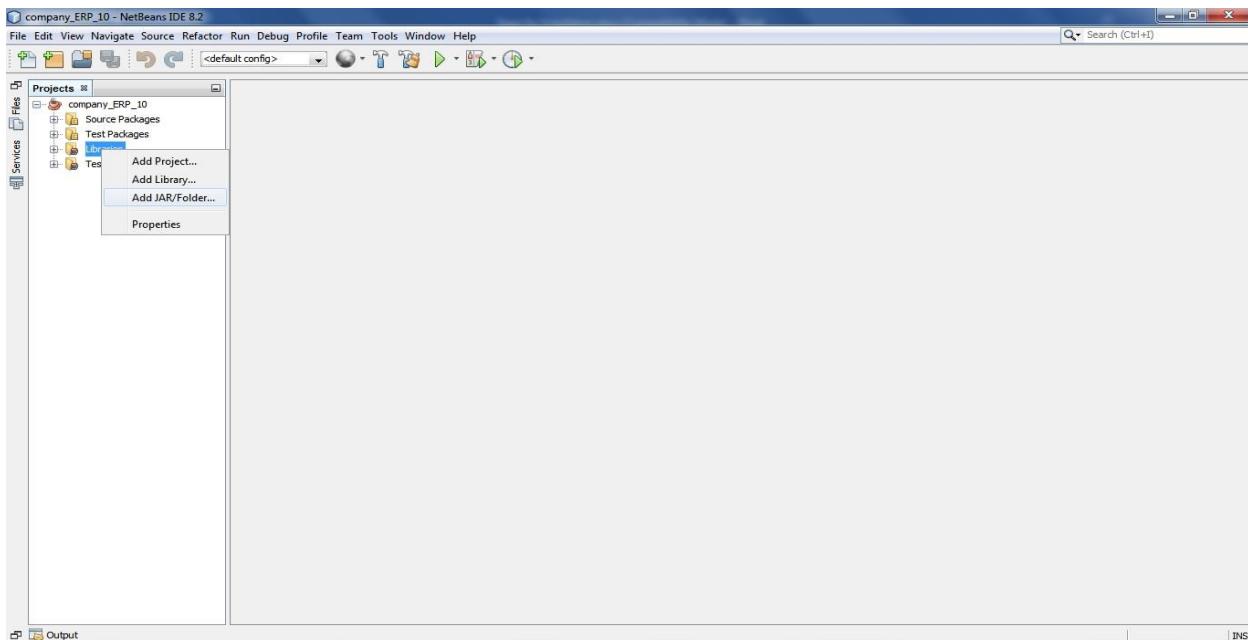


Figure 61: Adding Jar to the project

The jar file for the mysql connection connecting the java code and the database server is done by right clicking and selecting the add jar/folder option on libraries.

4.17. Jar File picker

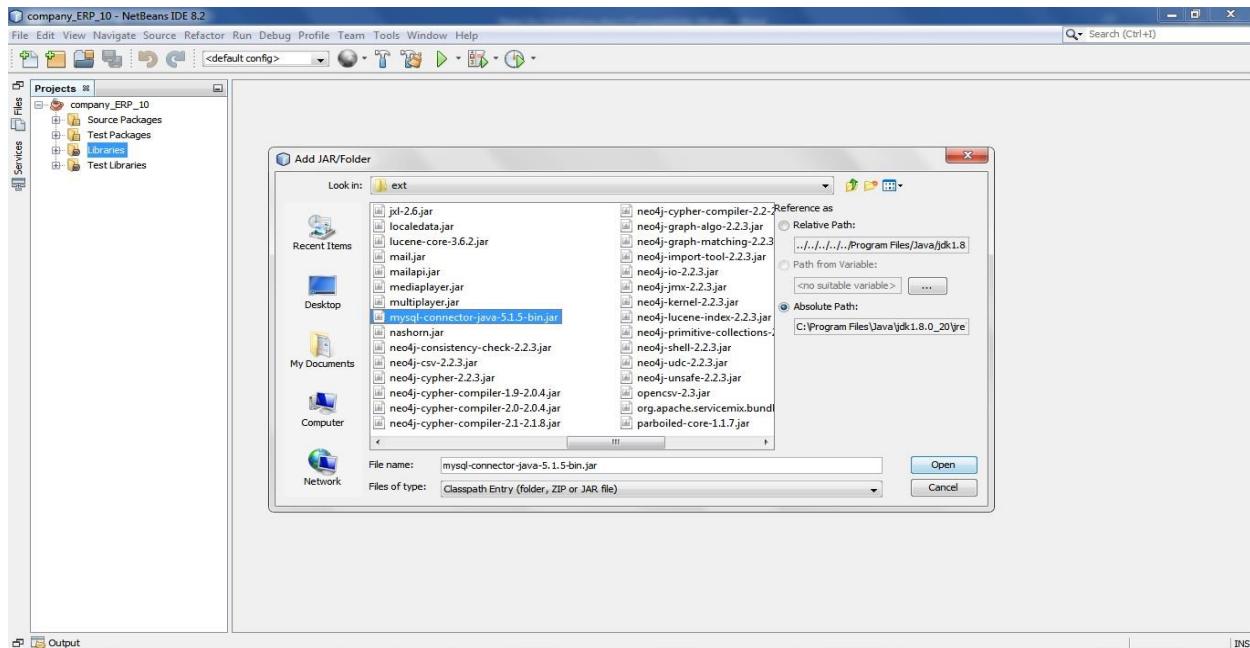


Figure 62: Jar File Picker

This file picker is then shown which is used to select the copied jar file and add it.

4.18. Project Execution

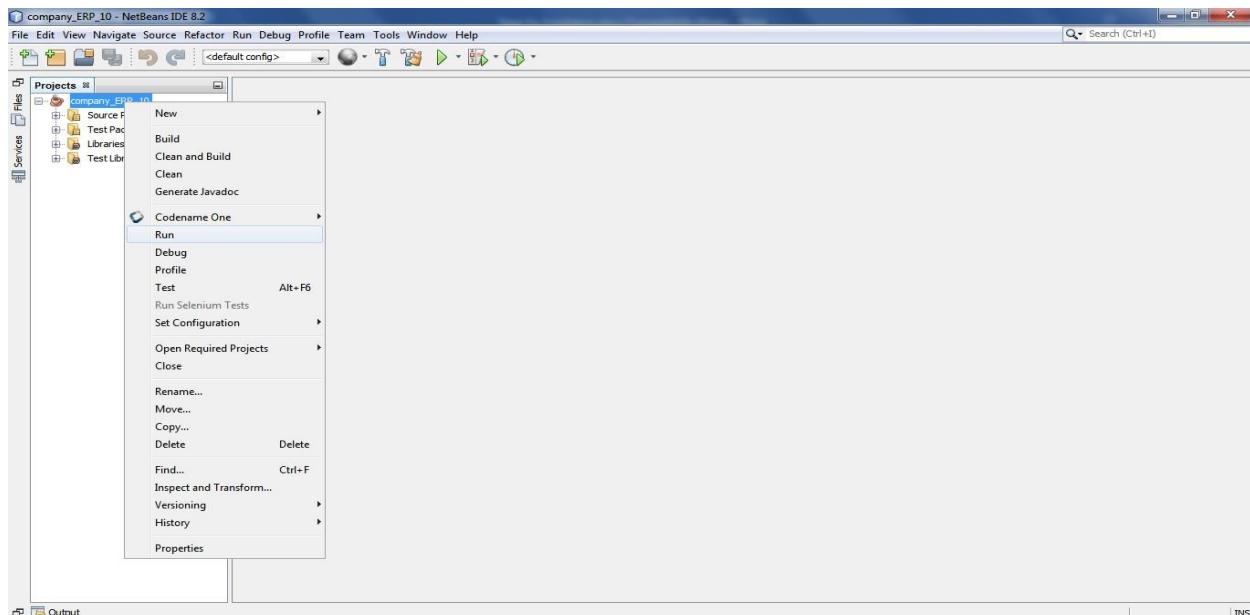


Figure 63: Project Execution

The project is now ready to be executed, for this, the project in the left hand tab is right clicked and the run option from the drop down menu is selected.

4.19. Project Login Page

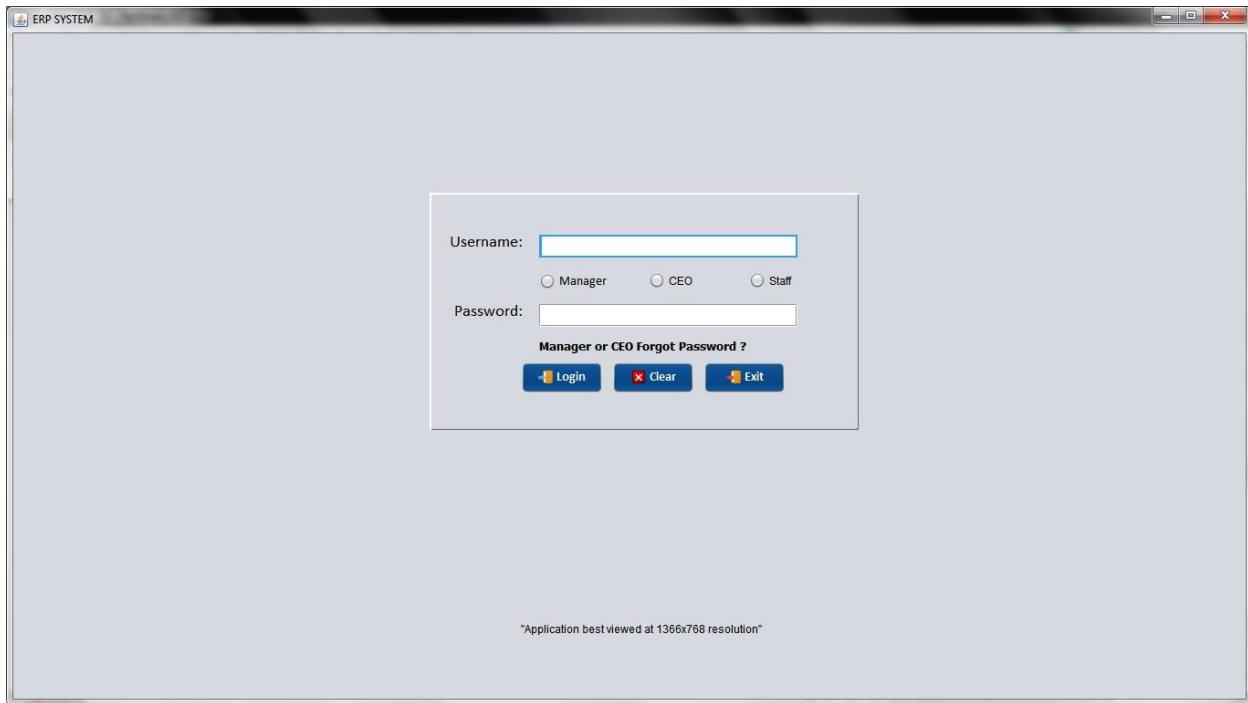


Figure 64: Start Restore of Database

The project is now initiated and a frame with a login option is shown to the user.

5. Manager and its Operations

5.1 Manager login

The Manager can log in for authorized access into the ERP system through the use of valid credentials such as the username and password and clicks the login button.

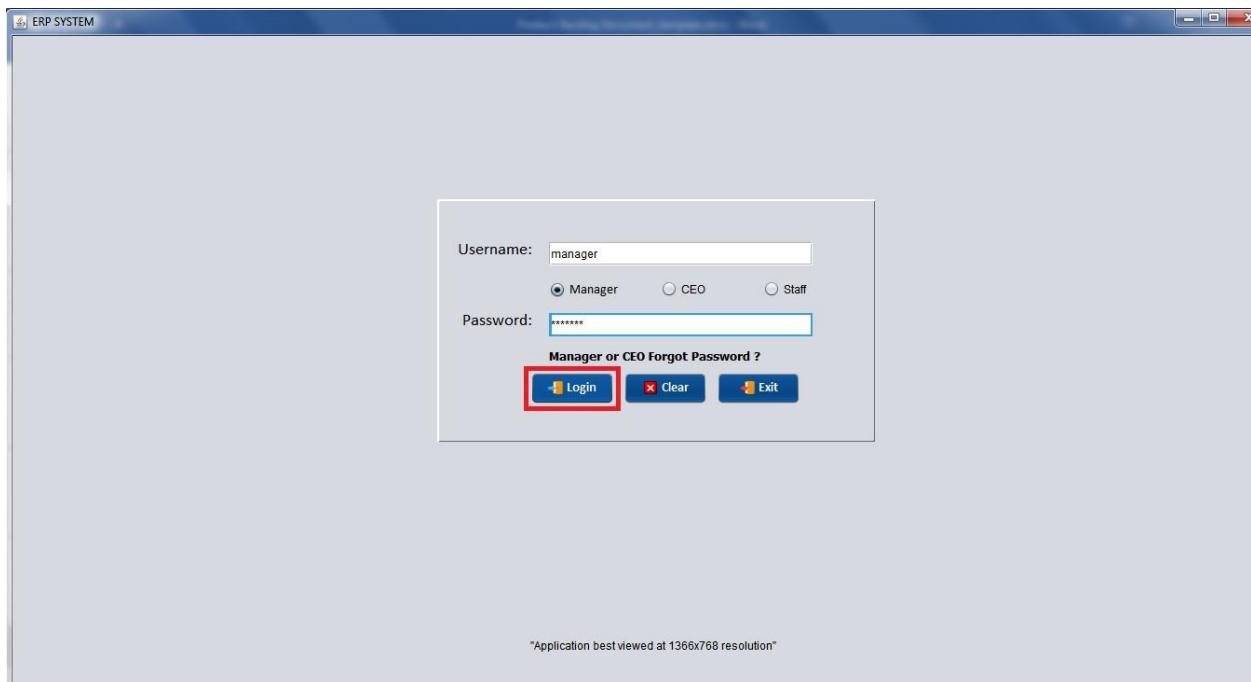


Figure 65: Manager Login

If any error occurs during login, please debug these classes and their respective functions, as mentioned below.

Class	LoginDBOperation
Function	checkManagerLogin()

5.2 Manager Dashboard

After successful authentication the Manager is greeted with the Dashboard as the operation frame which is a menu based interactive user interface where the manager can perform his various duties.

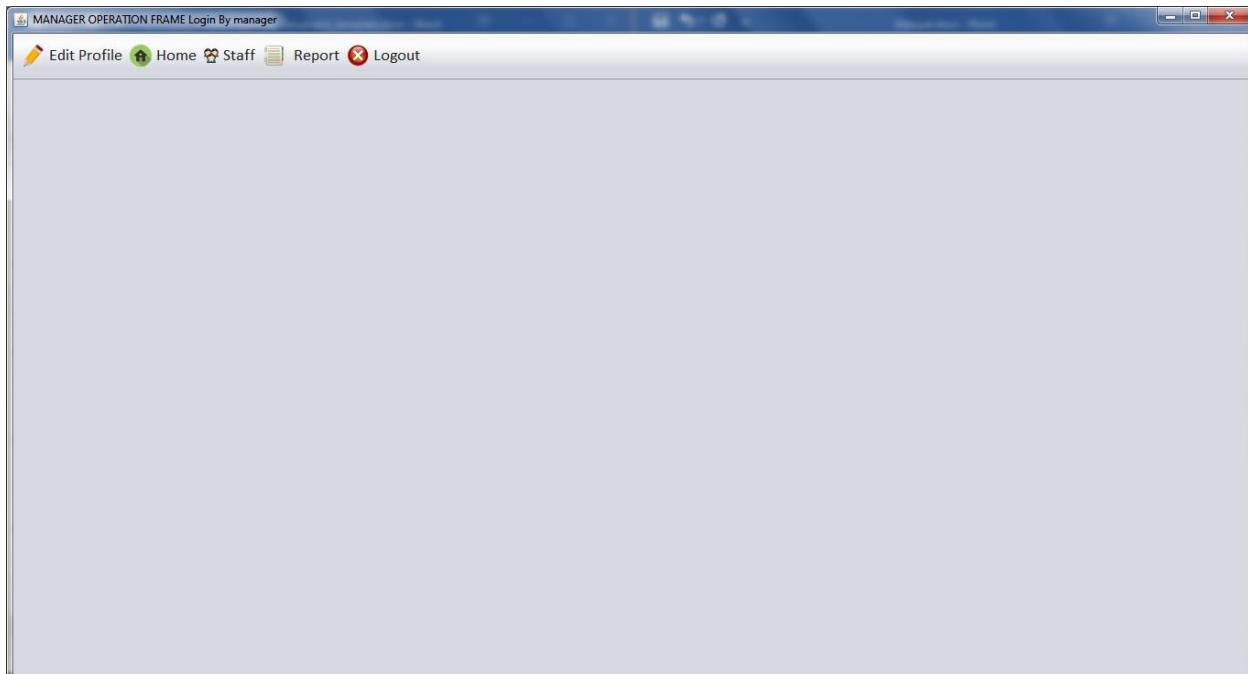


Figure 66: Manager Dashboard

5.3 Manager Change Password

The manager can utilize the edit profile button to change the password by providing the previous password, the new password twice for confirmation and clicking the save button.

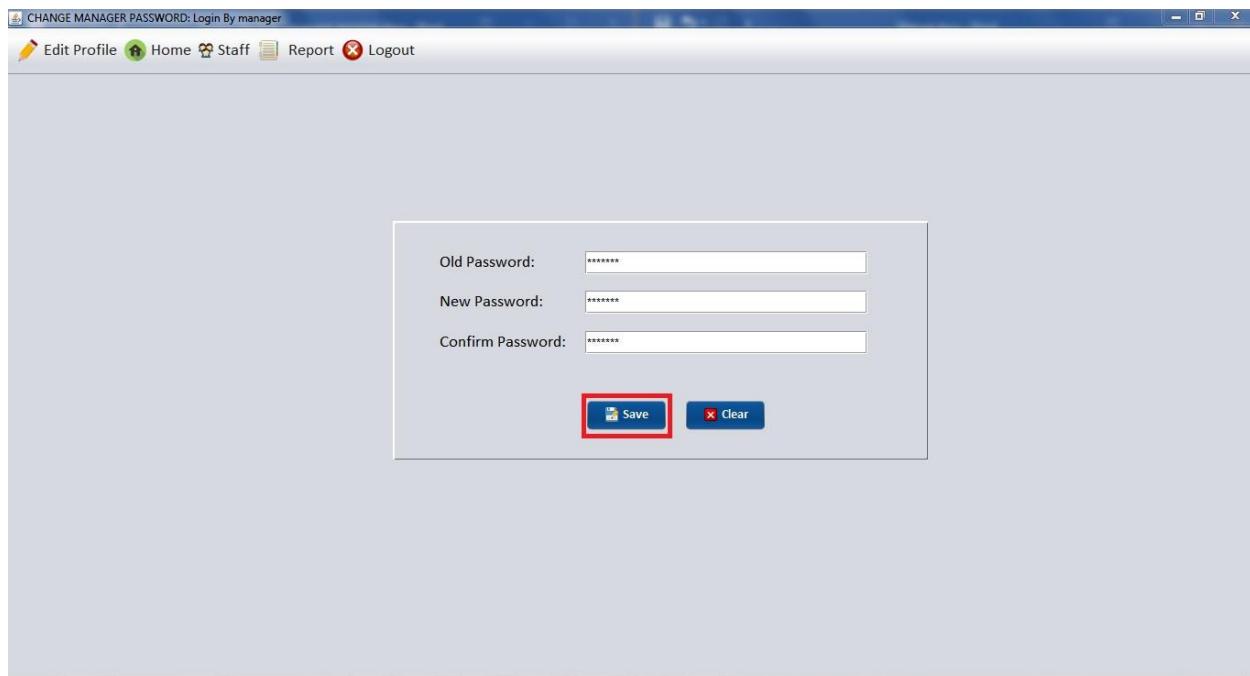


Figure 67: Manager Change password

If any error occurs during updating the password, please debug these classes and their respective functions, as mentioned below.

Class	ManageProfileDBOperation
Function	checkPassword()
Function	updatePassword()

5.4 Add Company Details

The Manager can access the Home Menu from the dashboard to add the home company and its detailed information into the ERP system. After that the manager will enter the details of the company such as company name, address, bank details etc. and click on save to save the details.

General Information:

- Name: West Films
- Address: Juhu
- City: Mumbai
- Pin: 123456
- State: Maharashtra
- Contact No.: 9657452349
- Email ID: No Emailid
- (Optional)
- Nature of Business: Movie Production
- Formation Details: Private

Bank Details:

- Bank Name: [Input Field]
- Account Number: [Input Field]
- IFSC Code: [Input Field]
- Account Name: [Input Field]
- Account Type: Select [Dropdown]

Bank Name	Account Number	IFSC Code	Account Name	Account Type
SBI	123456	SBIN1234567	West Films PVT Ltd	Saving

[Click on the account number which you want to set as default]

Default Bank Account No: 123456

Statutory Details:

- Party Type: Registered Business-Regular
- Registration Number: 12122121
- GSTIN: 27AABCT3518Q1ZW
- PAN Number: AABCT3518Q
- State Code: 27 Maharashtra

Logo: Signature:

Figure 68: Add Company Details

If any error occurs during adding company, please debug these classes and their respective functions, as mentioned below.

Class	PANValidator
Function	isValidPAN()
Function	validGST()
Class	Validator
Function	isValidPinint()
Function	isDigitMobileno()
Function	isValidAccNumber()
Class	HomeCompanyDB
Function	isHomeCompanyAdded()
Class	HomeCompanyDBOperation
Function	addHomeCompanyInfo()
Class	IFSCValidator
Function	isValidIFSC
Class	InsertDataToTable
Function	getDataInserted()

5.5 Edit Company Details

The Manager can also edit the Home company information by accessing the home button on the Dashboard and selecting the edit home company information button. After that the manager edit the previously entered details of the company such as company name, address, bank details etc. and click on save to save the details.

The screenshot shows the 'Edit Home Company Profile' page. It has two main sections: 'General Information' and 'Bank Details'. In the 'General Information' section, fields include Name (West Films), Address (Juhu), City (Mumbai), Pin (123456), State (Maharashtra), Contact No. (9657452349), Email ID (No Emailid), and Nature of Business (Movie Production). In the 'Bank Details' section, there is a table with one row (SBI, 123456, SBIN1234567, West Films PVT Ltd, Saving). Below the table are fields for adding new bank details: Bank Name, Account Number, IFSC Code, Account Name, Account Type (with a dropdown menu), and a 'Set As Default' checkbox. At the bottom left are 'Save' and 'Clear' buttons, with 'Save' being highlighted with a red box.

Figure 69: Edit company details.

If any error occurs during Editing Company details, please debug these classes and their respective functions, as mentioned below.

Class	PANValidator
Function	isValidPAN()
Function	validGST()
Class	Validator
Function	isValidPinint()
Function	isDigitMobileno()
Function	isValidAccNumber()
Class	IFSCValidator
Function	isValidIFSC()
Class	InsertDataToTable
Function	getDataInserted()

5.6 Add Staff

The manager has the staff button on the dashboard menu which can be used to create an entry for a new staff member. Once that is selected, the manager can enter the details of the staff such as name, Date of Birth, mobile number etc. and click on the save button.

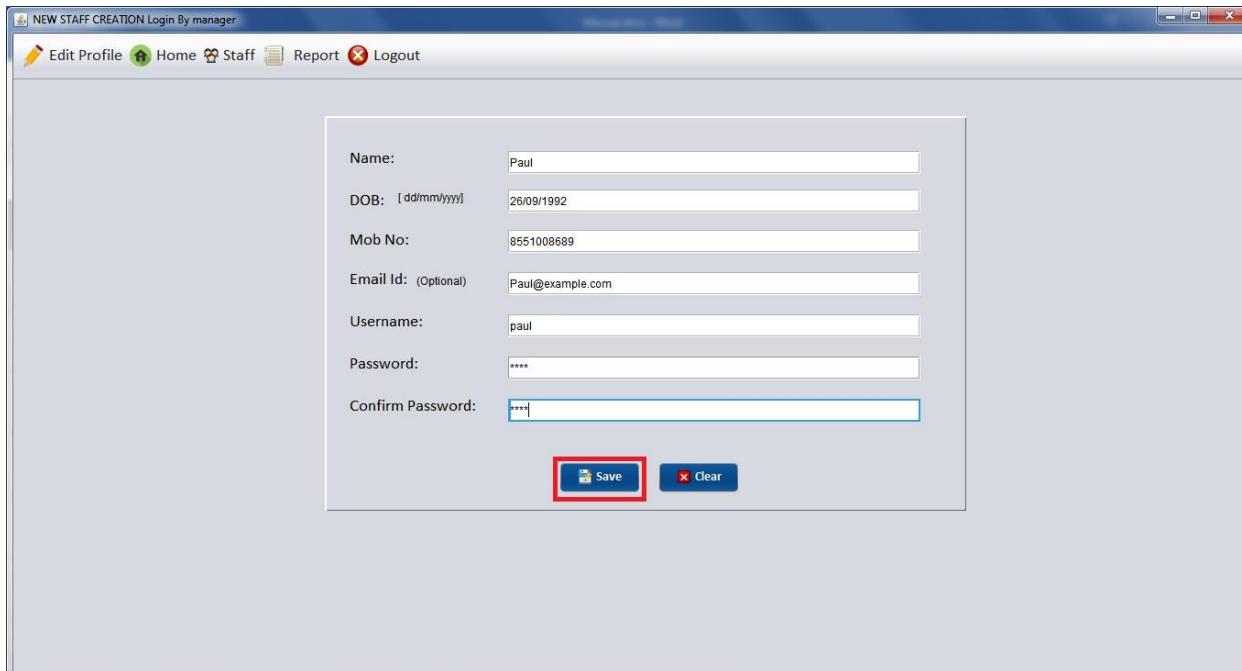


Figure 70: Add Staff

If any error occurs during adding staff, please debug these classes and their respective functions, as mentioned below.

Class	HomeCompanyDBOperation
Function	getHomeCompanyInfo
Class	PANValidator
Function	isValidPAN
Class	Validator
Function	isValidPinint
Function	isDigitMobileno
Function	validGST
Class	HomeCompanyDBOperation
Function	updateHomeCompanyinfo
Class	IFSCValidator
Function	isValidIFSC
Class	InsertDataToTable
Function	getDataInserted

5.7 View and Edit Staff

The existing staff can also be viewed by the manager through the use of the same staff menu on the dashboard. This also allows the editing of the details of the existing staff member by clicking the edit button.

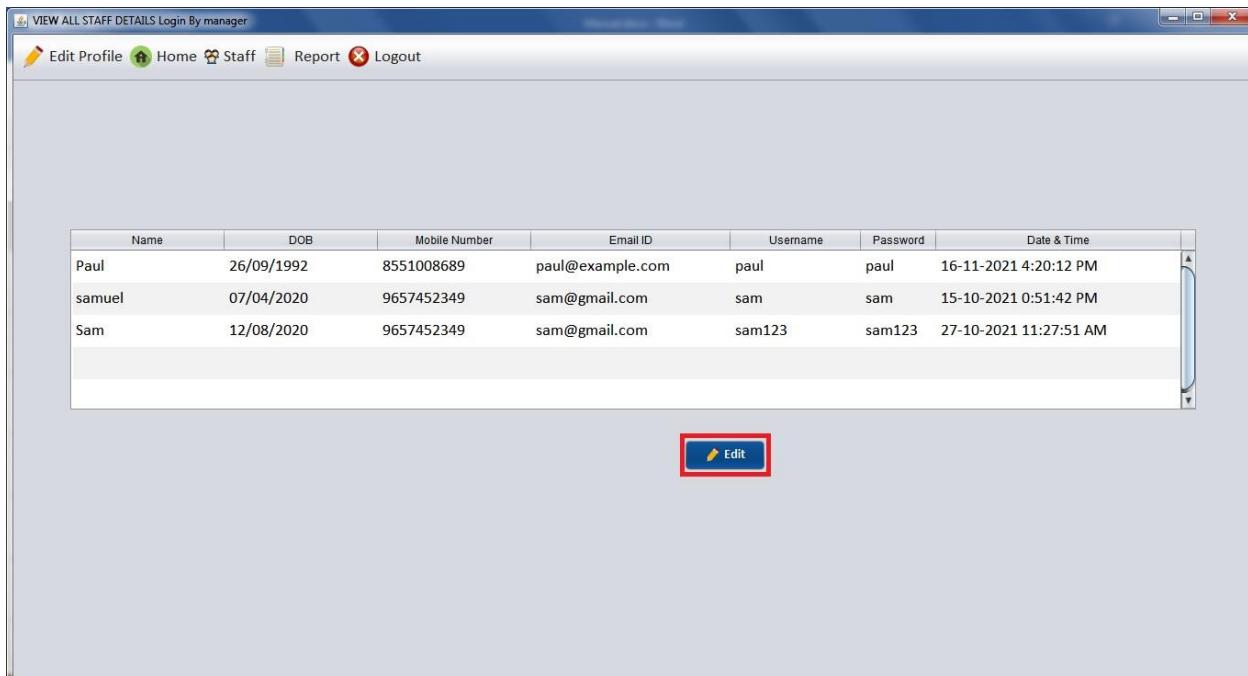


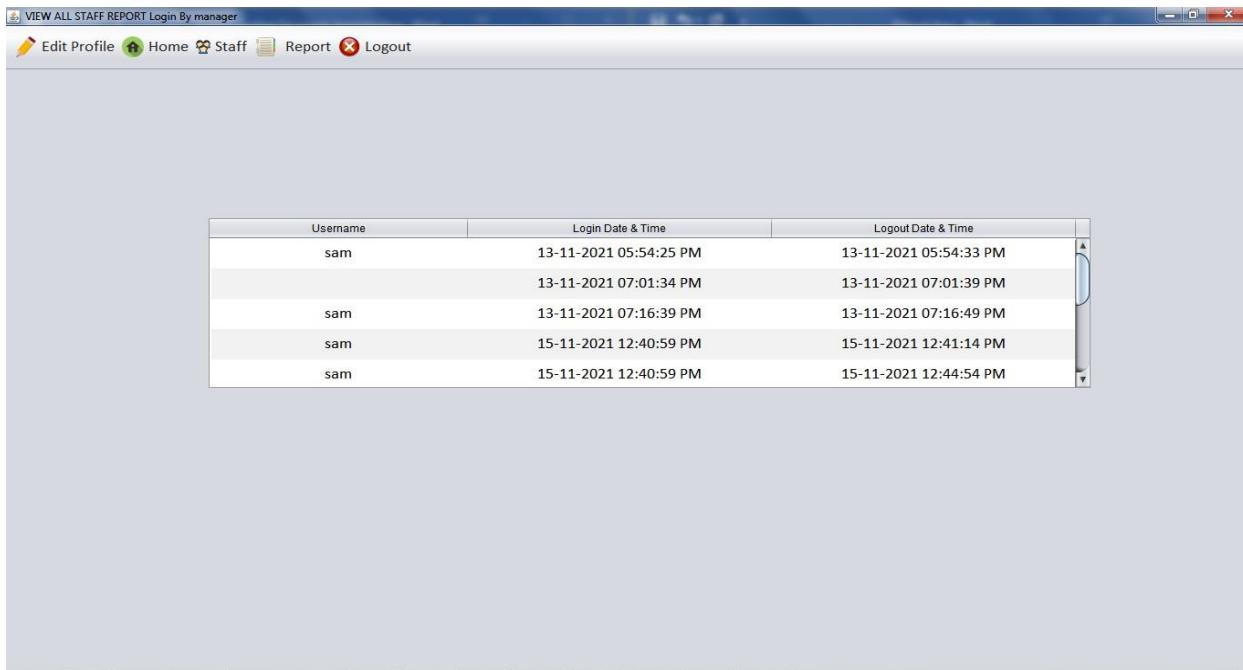
Figure 71: Edit Staff

If any error occurs during viewing and editing staff details, please debug these classes and their respective functions, as mentioned below.

Class	ManageProfileDBOperation
Function	getAllStaffInfo
Class	InsertDataToTable
Function	getDataInserted

5.8 View Staff Report

The staff report is also managed by the manager through the selection of staff report on the manager dashboard. The report consists of the login and log out details of all the employees which will be displayed to the manager.



Username	Login Date & Time	Logout Date & Time
sam	13-11-2021 05:54:25 PM	13-11-2021 05:54:33 PM
	13-11-2021 07:01:34 PM	13-11-2021 07:01:39 PM
sam	13-11-2021 07:16:39 PM	13-11-2021 07:16:49 PM
sam	15-11-2021 12:40:59 PM	15-11-2021 12:41:14 PM
sam	15-11-2021 12:40:59 PM	15-11-2021 12:44:54 PM

Figure 72: View Staff Report

5.9 View Sale Graph

The manager can utilize the report tab to access the sale graphs. The sale graphs displays the sale of the items with the amount in INR individually in the form of a bar graph. The graph opens in a different window that can be closed after viewing.



Figure 73: Sale Graph

If any error occurs during viewing Sale graphs, please debug these classes and their respective functions, as mentioned below.

Class	SaleDBOperation
Function	getAllSaleItemInfo
Class	SaleGraphChart
Function	initiateSimulation

5.10 View Purchase Graph

The manager can utilize the report tab to access the purchase graphs. The purchase graphs displays the purchase of the items with the amount in INR individually in the form of a bar graph. The graph opens in a different window that can be closed after viewing.



Figure 74: Purchase Graph

If any error occurs during viewing purchase graphs, please debug these classes and their respective functions, as mentioned below.

Class	PurchaseDBOperation
Function	getAllPurchaseItemInfo
Class	PurchaseGraphChart
Function	initiateSimulation

6. CEO and its operations

6.1 CEO Login

The CEO can log in for authorized access into the ERP system through the use of valid credentials such as the username and password and clicks the login button.

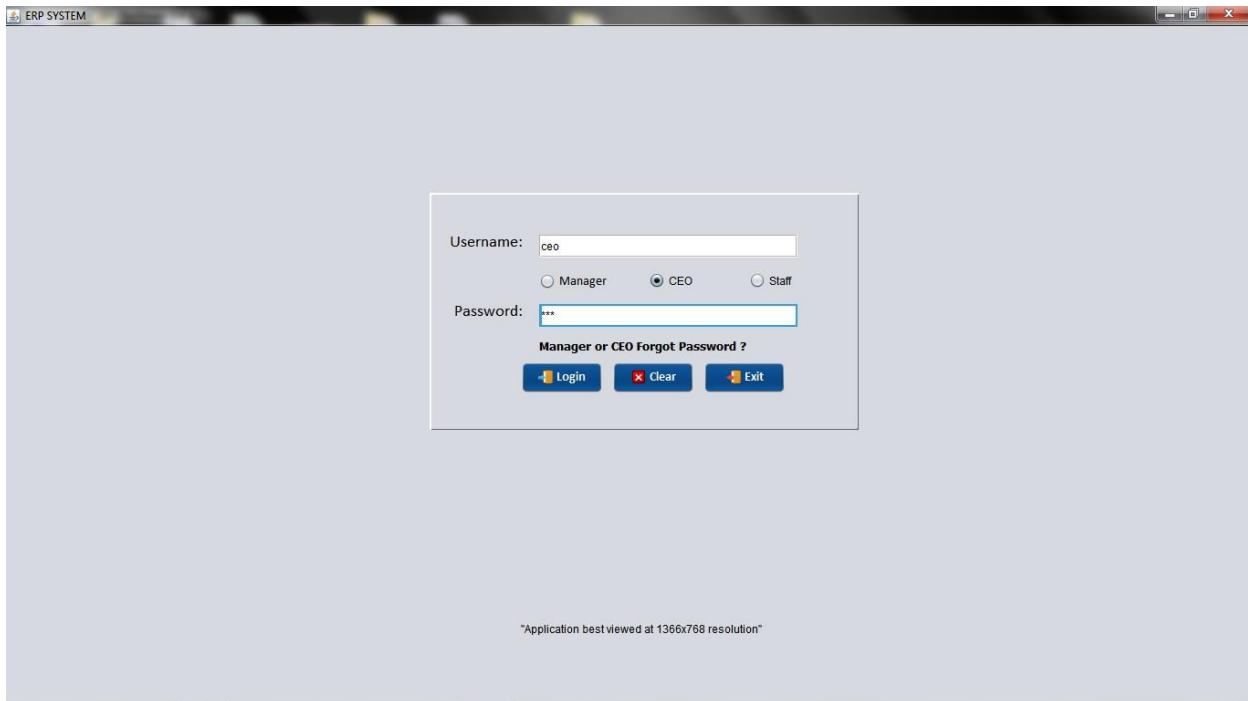


Figure 75: CEO Login

If any error occurs during CEO Login, please debug these classes and their respective functions, as mentioned below.

Class	LoginDBOperation
Function	checkCEOLogin

6.2 CEO Dashboard

After successful authentication the CEO is greeted with the Dashboard as the operation frame which is a menu based interactive user interface where the CEO can perform his various duties.

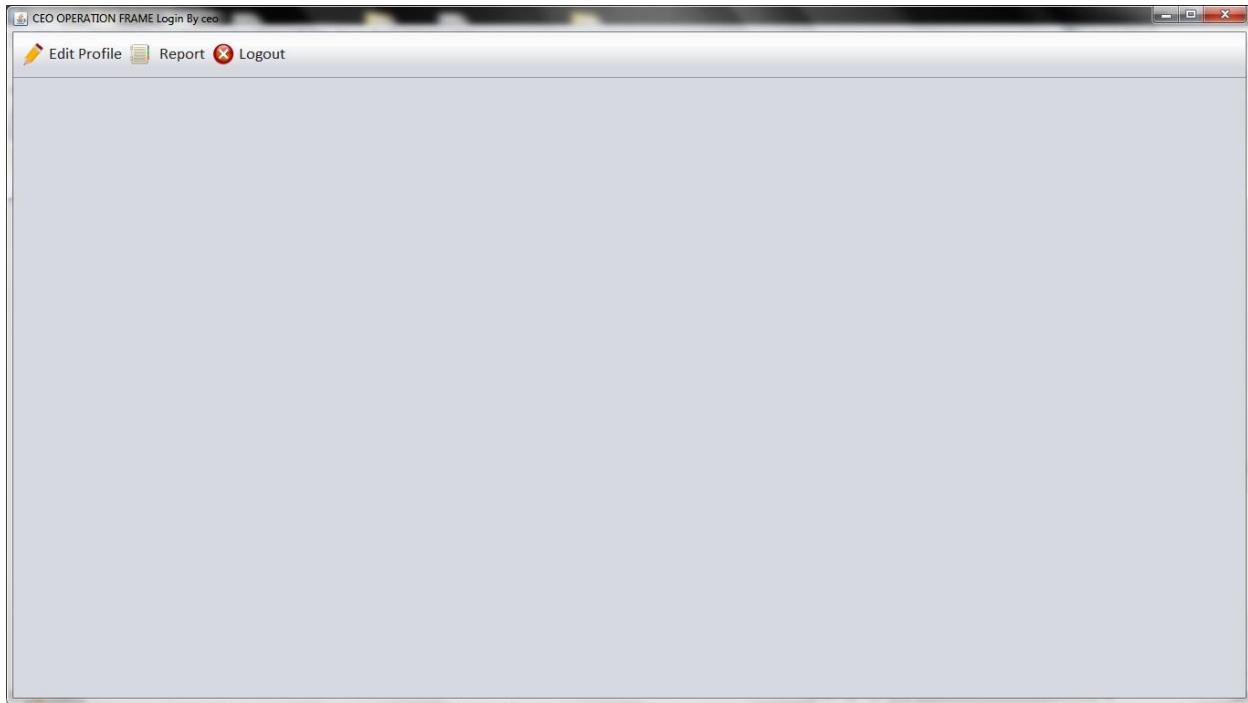


Figure 76: CEO Dashboard

6.3 CEO Change password

The CEO can utilize the edit profile button to change the password by providing the previous password, the new password twice for confirmation and clicking the save button.

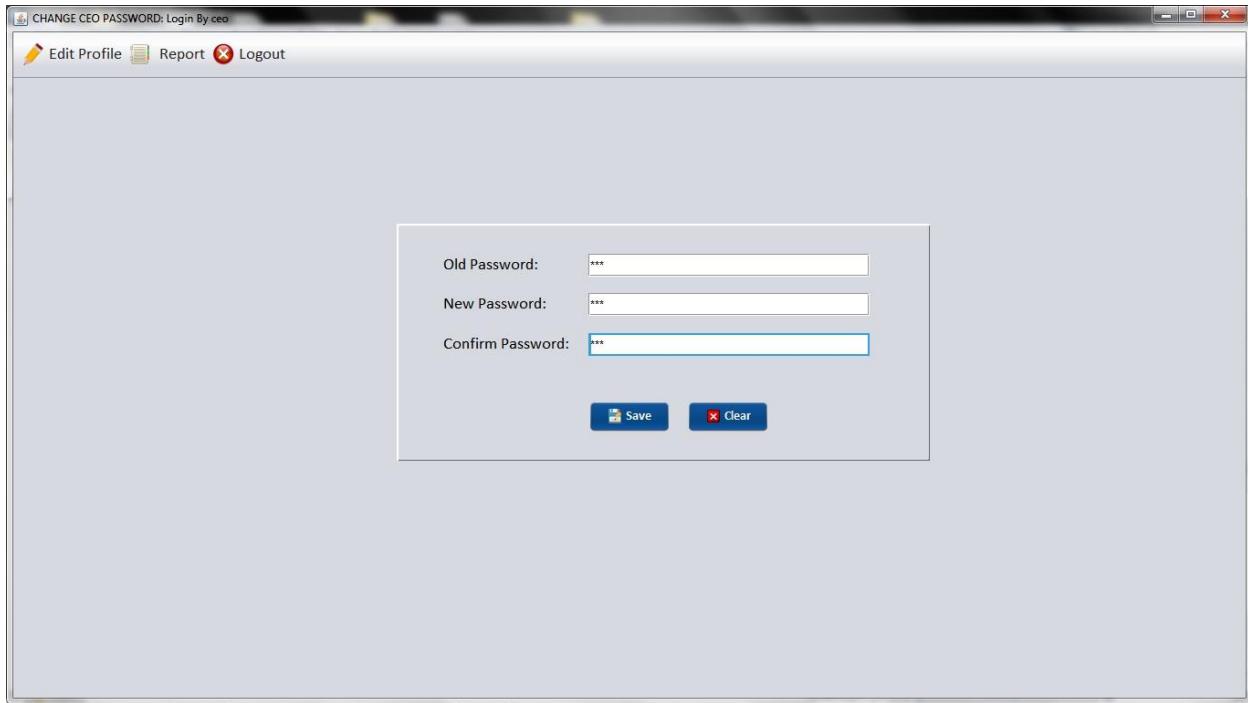


Figure 77: CEO change password

If any error occurs during CEO edit profile, please debug these classes and their respective functions, as mentioned below.

Class	CEOProfileDBOperation
Function	checkPassword
Function	updatePassword
Class	ManageProfileDBOperation
Function	updatePassword

6.4 View Sale Graph

The CEO can utilize the report tab to access the sale graphs. The sale graphs displays the sale of the items individually with the amount in INR in the form of a bar graph. The graph opens in a different window that can be closed after viewing.

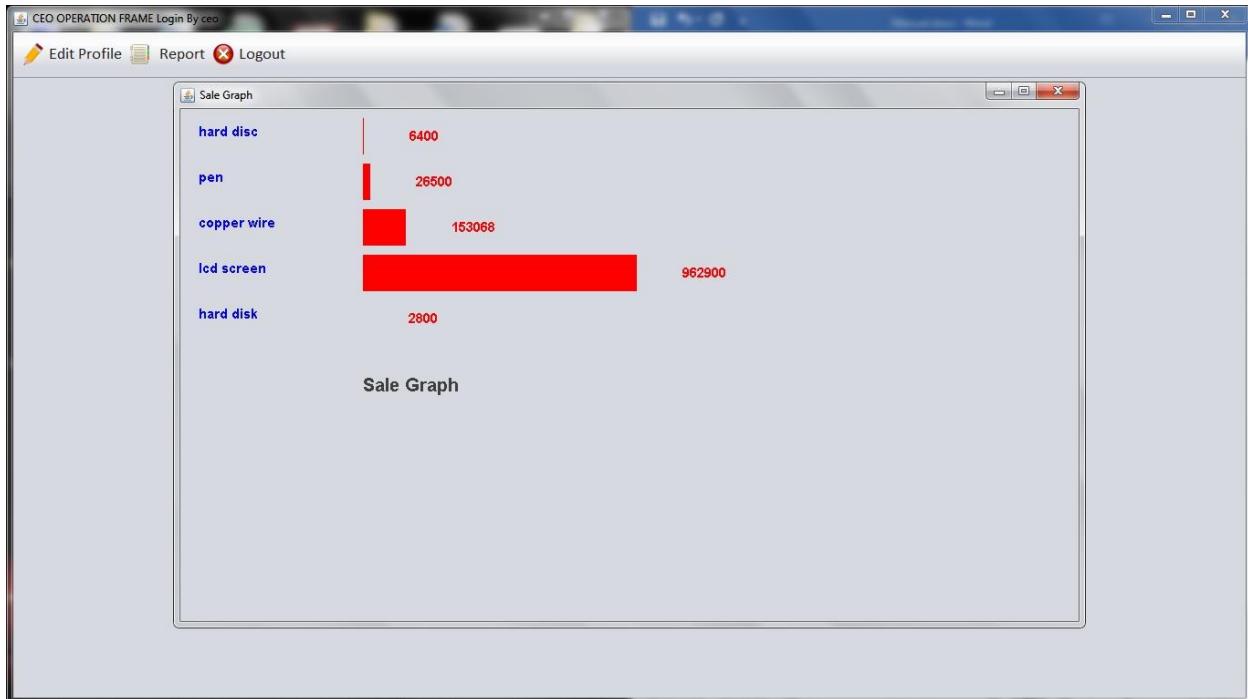


Figure 78: View Sale Graph

If any error occurs during View sale graph, please debug these classes and their respective functions, as mentioned below.

Class	SaleDBOperation
Function	getAllSaleItemInfo
Class	SaleGraphChart
Function	initiateSimulation

6.5 View Purchase Graph

The CEO can utilize the report tab to access the sale graphs. The sale graphs displays the sale of the items individually with the amount in INR in the form of a bar graph. The graph opens in a different window that can be closed after viewing.

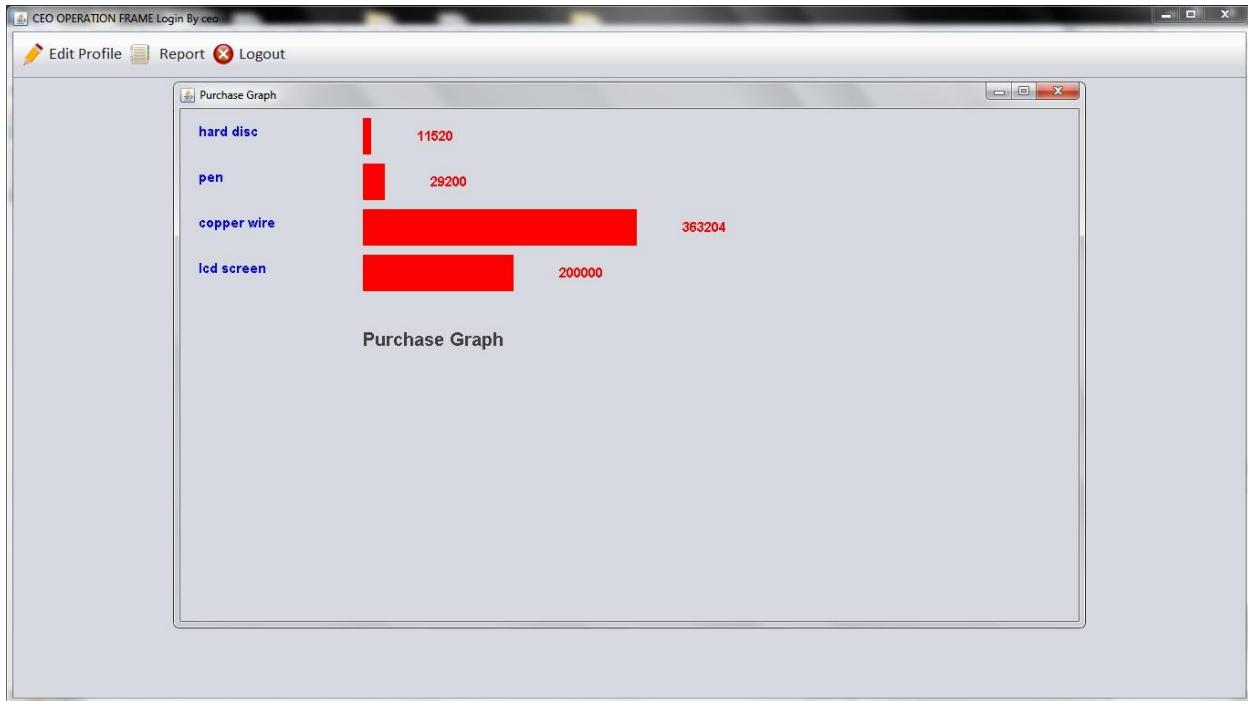


Figure 79: View Purchase Graph

If any error occurs during view purchase graph, please debug these classes and their respective functions, as mentioned below.

Class	PurchaseDBOperation
Function	getAllPurchaseItemInfo
Class	PurchaseGraphChart
Function	initiateSimulation

7. Staff and its Operations

7.1 Staff Login

The staff can log in for authorized access into the ERP system through the use of valid credentials such as the username and password provided by the manager and clicks the login button.

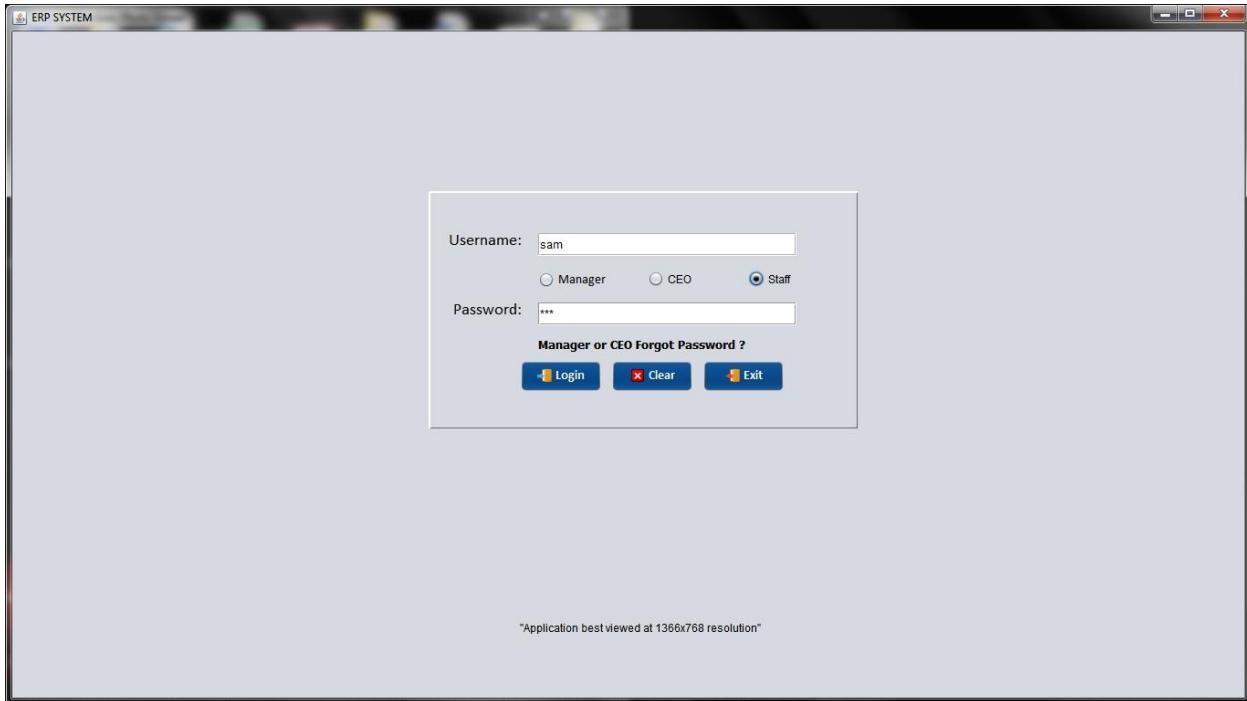


Figure 80: Staff Login

If any error occurs during staff login, please debug these classes and their respective functions, as mentioned below.

Class	LoginDBOperation
Function	checkStaffLogin

7.2 Staff Dashboard

After successful authentication the staff is greeted with the Dashboard as the operation frame which is a menu based interactive user interface where the staff can perform his various duties.

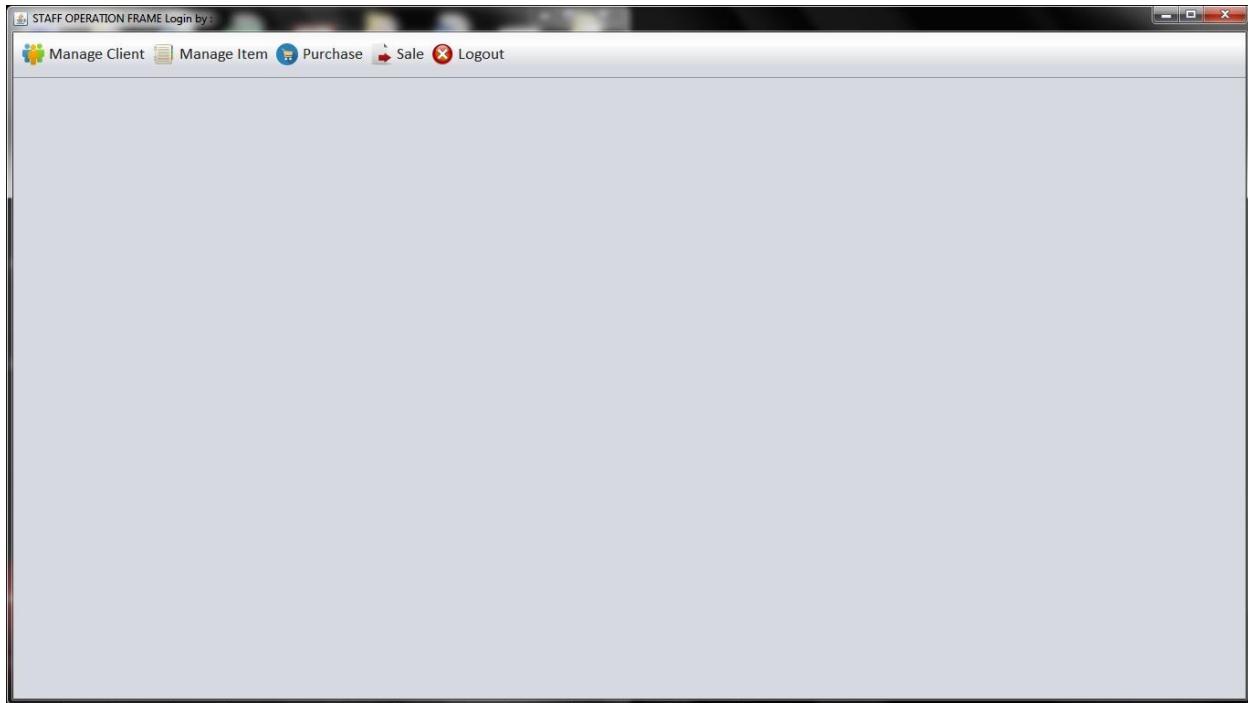


Figure 81: Staff Dashboard

7.3 Add Client

The staff has the ability to add the client for enabling purchase and sale of goods. The manage client tab is accessed and the add client option is clicked by the user to get the add client page. On this page the staff enters all the relevant details of the client, such as general information, statutory details. Bank Details and contact details then clicks the save button.

General Information:

- Name: Compu Kids
- Address: Janak puri
- City: Delhi Pin: 110010
- State: Delhi
- Contact No.: 9657452348
- Email ID: (Optional) No Email Id

Bank Details: (Optional)

- Bank Name: [Input field]
- Account Number: [Input field]
- IFSC Code: [Input field]
- Account Name: [Input field]
- Account Type: Select [Dropdown] Add Bank [Button]

Bank Name	Account Number	IFSC Code	Account Name	Account Type
SBI	12345	SBIN1234567	Compu Kids Priva...	Saving

[Click on the account number which you want to set as default] Delete Row Set As Default

Statutory Details:

- Party Type: Unregistered
- GSTIN: [Input field] PAN Number: BHRPS12308
- State Code: Select State GST Code [Dropdown]

Contact Person Details:

- Contact Details: Same as Above
- Name: Compu Kids
- Contact No.: 9657452348 Email ID: No Email Id

Buttons:

- Save (highlighted with a red box)
- Clear

Figure 82: Add Client

If any error occurs during adding client, please debug these classes and their respective functions, as mentioned below.

Class	PANValidator
Function	isValidPAN
Class	Validator
Function	isDigitMobileno
Function	isValidPinint
Class	PartyDB
Function	isGSTINExisted
Function	insertParty
Class	InsertDataToTable
Function	getDataInserted
Class	IFSCValidator
Function	isValidIFSC
Class	InsertDataToTable
Function	getDataInserted
Class	GSTStateCode
Function	getStateCode

7.4 Search Party

The staff also has the ability to search the details of the entered clients which can be accessed through the search client detail option. The search query can be passed to search the added clients, there are also options to add new party and edit the existing clients in this page.

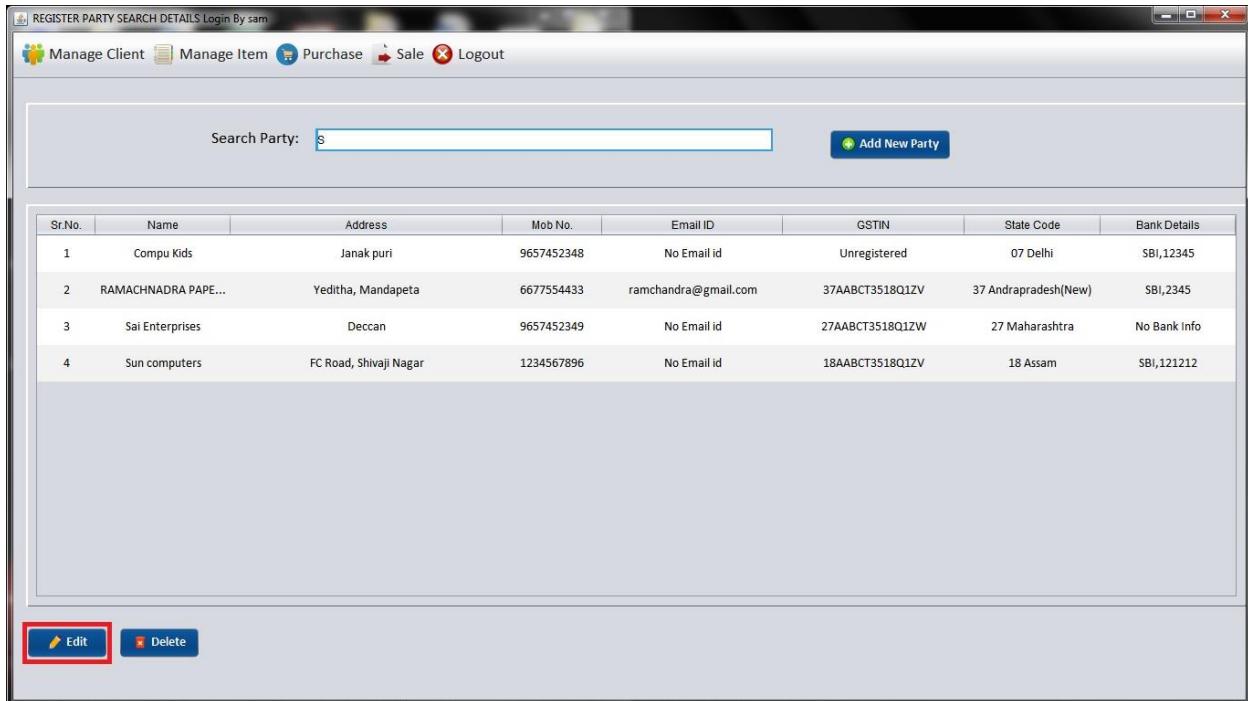


Figure 83: Search Party

If any error occurs during search party, please debug these classes and their respective functions, as mentioned below.

Class	PANValidator
Function	isValidPAN
Class	Validator
Function	isDigitMobileno
	isValidPinint
Class	PartyDB
Function	isGSTINExisted
	insertParty
Class	InsertDataToTable
Function	getDataInserted
Class	IFSCValidator
Function	isValidIFSC
Class	ManageClientDBOperation
Function	updatePartyinfo

7.5 Edit Client/Party

The staff can edit the previously added clients or parties through this option. The edit client option allows the staff to edit all the relevant parameters of the client, such as general information, statutory details. Bank Details and contact details then click the save button to save the details.

The screenshot shows a Windows application window titled 'EDIT PARTY DETAILS Login By sam'. The window has a menu bar with 'Manage Client', 'Manage Item', 'Purchase', 'Sale', and 'Logout'. The main area is divided into several sections:

- General Information:** Fields for Name (Compu Kids), Address (Janak puri), City (Delhi), Pin (110010), State (Delhi), Contact No. (9657452348), and Email ID (No Email id).
- Bank Details:** A table showing one bank account: SBI (Account Number 12345, IFSC SBIN1234567, Account Name Compu Kids Privat..., Account Type Current). Buttons include 'Delete Row', 'Add Bank', and 'Set As Default'.
- Statutory Details:** Fields for Party Type (Unregistered), GSTIN (Unregistered), PAN Number (BHRPS12308), and State Code (07 Delhi).
- Contact Person Details:** Fields for Contact Details (checkbox 'Same as Above'), Name (Compu Kids), Contact No. (9657452348), and Email ID (No Email id).

At the bottom left are 'Save' and 'Delete' buttons, with 'Save' being highlighted with a red border.

Figure 84: Edit Party/Client

If any error occurs during editing client/party, please debug these classes and their respective functions, as mentioned below.

Class	PANValidator
Function	isValidPAN
Class	Validator
Function	isDigitMobileno
	isValidPinint
Class	PartyDB
Function	isGSTINExisted
	insertParty
Class	InsertDataToTable
Function	getDataInserted
Class	IFSCValidator
Function	isValidIFSC
Class	ManageClientDBOperation
Function	updatePartyinfo

7.6 Add Item

The staff can add items that can be used for the purpose of purchase and sale. This is achieved by the add item option from the manage item tab. The Add item option allows the staff to enter the relevant details about the items such as type, item name, product description, quantity, GST Rate and HSN code after which the save button is clicked to save the details.

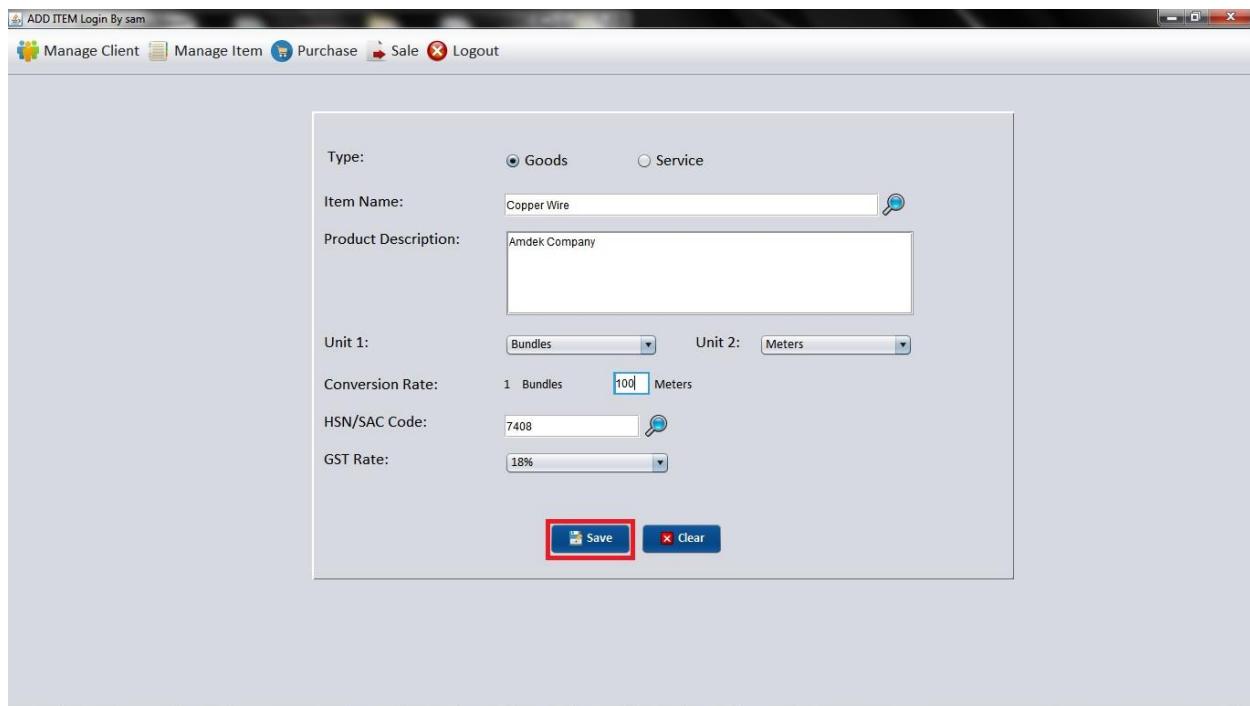


Figure 85: Add Item

If any error occurs during adding items, please debug these classes and their respective functions, as mentioned below.

Class	ManageItemDBOperation
Function	addItemInfo
Class	StockDBOperation
Function	insertStockInfo
Class	ManageItemDBOperation
Function	addItemInfo

7.7 HSN Code Selection

The HSN code stands for Harmonized System of Nomenclature which is being used since a long time for the classification of goods. This system allows for an effective classification of goods that is recognized across the world. The system has inbuilt repository that can be used for the purpose of achieving a much effective search for the HSN item code that can be selected by clicking the select button.

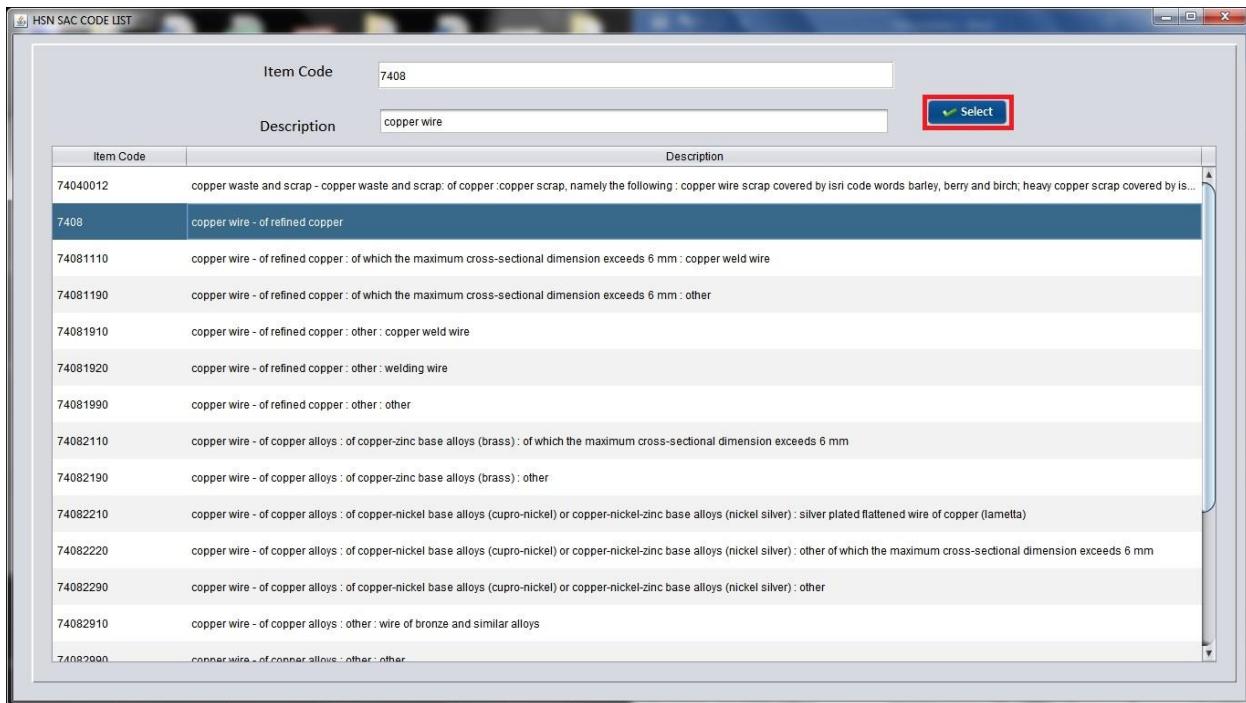


Figure 86: HSN Code Selection

7.8 Search Item

The staff also has the ability to search for the already added items through the search item option. The staff can either add a new item by clicking the add item button, or the user can also edit the selected entry by clicking the edit button.

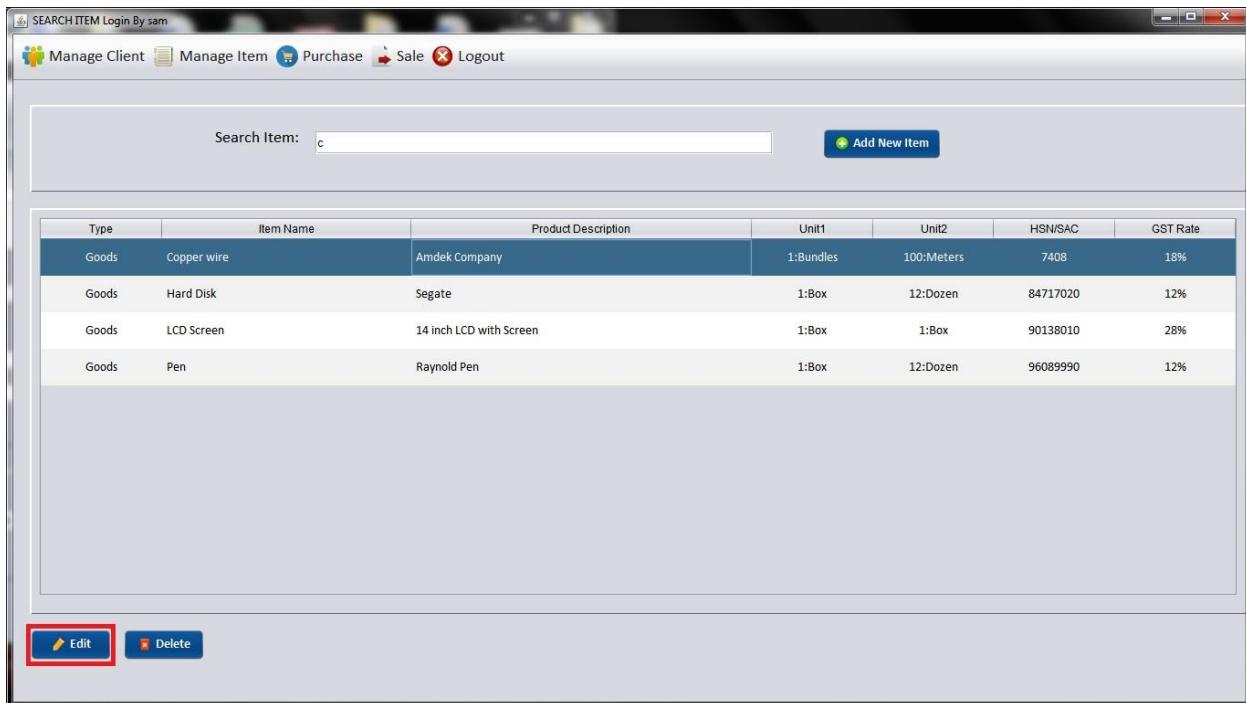


Figure 87: Search Item

7.9 Edit Item

The edit item page allows the staff to edit the item attributes that have been entered previously, such as type, item name, product description, quantity, GST Rate and HSN code after which the save button is clicked to save the details.

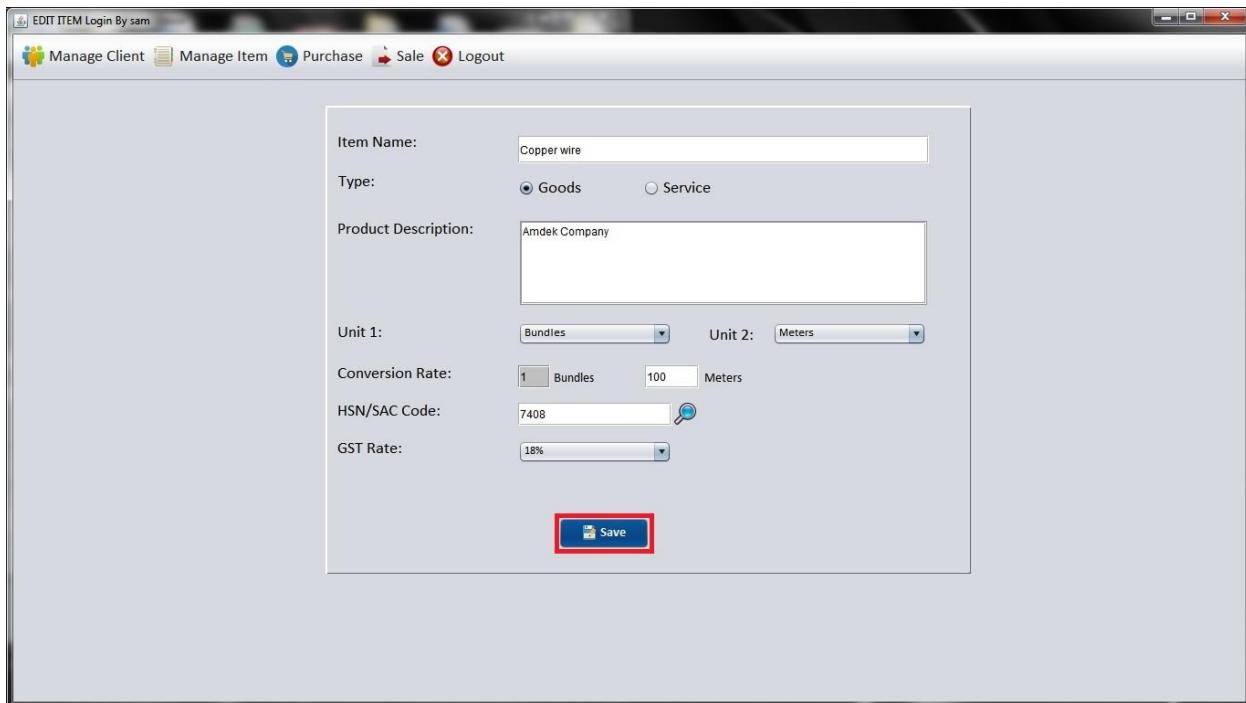


Figure 88: Edit item

If any error occurs during editing items, please debug these classes and their respective functions, as mentioned below.

Class	ManageItemDBOperation
Function	updateIteminfo

7.10 Stock Register

The staff has the access to the stock register that allows the staff to see different items and the stock that is available currently. The stock can be downloaded by clicking the download button which results in a excel sheet that can be stored on the selected location.

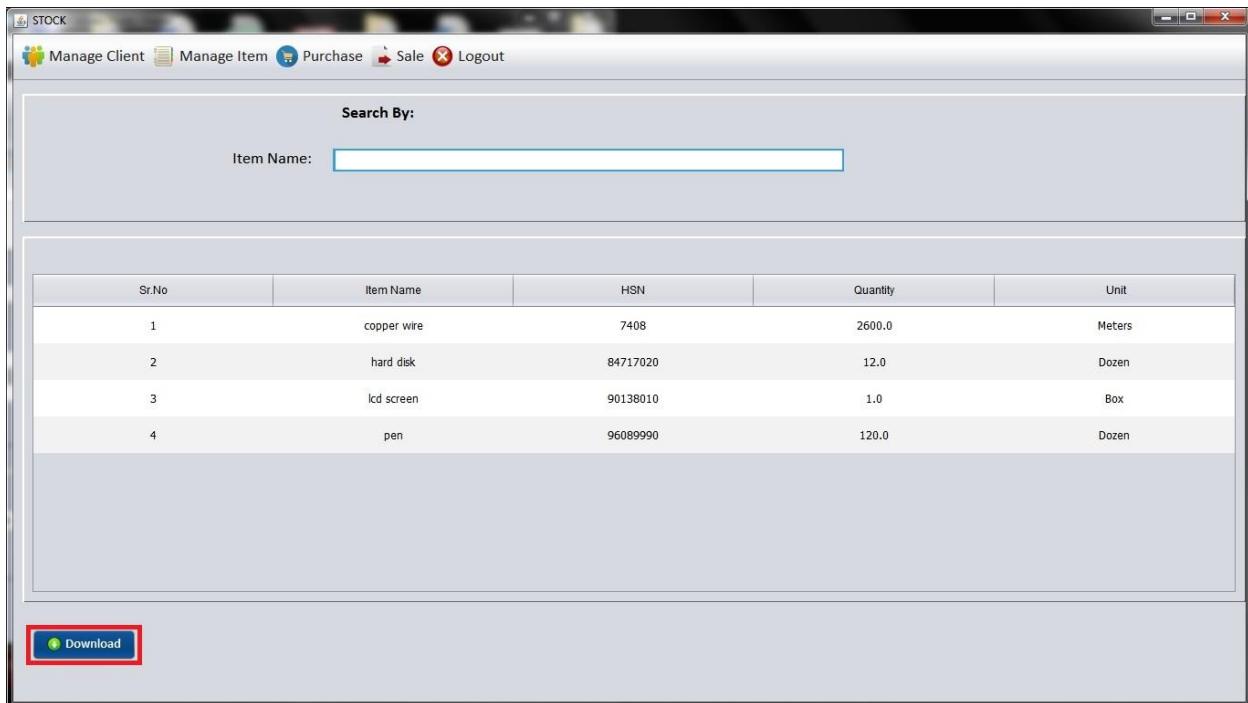


Figure 89: Stock Register

If any error occurs during stock registration, please debug these classes and their respective functions, as mentioned below.

Class	CreateExcelFile
Function	getExcelFile
Class	ValidateInvoice
Function	isValidInvoiceNO
Function	isValidYear
Function	evaluateTotal

7.11 New Purchase

The staff is tasked with recording any new purchases through the new purchase option in the purchase tab. The staff then enters the relevant details of the purchase, such as the search party, purchase type, cost center, sale ref, invoice number, invoice date, purchase order number. Payment term in days, item name, quantity, price, discount, transport charges, packaging charges and then click the button to save the purchase.

Item Name	Description	HSN/SAC	GST Rate	Unit	Quantity	Rate	Amount	Discount(%)	Taxable Amo...	CGST	SGST	IGST	Total
Copper wire	Amdek Com...	7408	18%	Bundles	10	100	1000.0	5	950.0	0.0	0.0	0.0	950.0

Figure 90: New Purchase

If any error occurs during new purchase, please debug these classes and their respective functions, as mentioned below.

Class	ValidateInvoice
Function	isValidInvoiceNO
Class	PurchaseDB
Function	isInvoiceExisted
Class	PurchaseDBOperation
Function	addPurchaseInfo
Function	addSearchPurchaseInfo
Function	addPurchasePaymentInfo
Function	getHighestGSTRateForTransportation
Class	ValidateInvoice
Function	isValidInvoiceNO
Function	isValidYear
Function	evaluateTotal
Function	getPosition
Function	addIntoGSTPercentageTable
Function	getHighestGSTRate
Function	validGST
Function	getHighestGSTRateForTransportation
Class	SimpleDateFormat
Function	taxEvalauation

7.12 Search Purchase

The staff can also search the previously made purchases through the search purchase section. The staff needs to enter the relevant search query or the date range to filter the search results. The searched entries then can be downloaded in a workbook format by clicking the download button below. The entries can also be deleted in this page using the delete button.

The screenshot shows a Windows application window titled 'SEARCH PURCHASE RFR Login By sam'. At the top, there is a menu bar with 'Manage Client', 'Manage Item', 'Purchase', 'Sale', and 'Logout'. Below the menu is a search bar labeled 'Search By:' with a text input field containing 'sai', a 'From Date' field set to '09/02/2021', a 'To Date' field set to '11/11/2021', a 'Search' button, and a 'Clear Search' button. The main area contains a table with purchase records:

Sr. No.	Party Name	GSTIN	Invoice No.	Invoice Date	Invoice Value	Taxable Amount	CGST	SGST	IGST	Payment Status	Select
1	SAI ENTERPRISES	27AABCT3518Q1...	007	11/11/2021	354000.0	54000.0	27000.0	27000.0	0.0	payable	<input type="checkbox"/>
6	SAI ENTERPRISES	27AABCT3518Q1...	345	10/10/2021	7680.0	1680.0	840.0	840.0	0.0	Cash	<input type="checkbox"/>
8	SAI ENTERPRISES	27AABCT3518Q1...	567	23/07/2021	4602.0	702.0	351.0	351.0	0.0	payable	<input type="checkbox"/>
9	SAI ENTERPRISES	27AABCT3518Q1...	678	09/02/2021	4602.0	702.0	351.0	351.0	0.0	payable	<input type="checkbox"/>

At the bottom of the window, there are three buttons: 'Download' (highlighted with a red box), 'Delete', and 'Clear'.

Figure 91: Search Purchase

If any error occurs during search purchase, please debug these classes and their respective functions, as mentioned below.

Class Function	PurchaseDBOperation getAllSearchPurchaseInfo
Class Function	InsertDataToTable getSearchPurchaseFrameDataInserted
Class Function	InsertCheckBoxToJtable getCheckBoxInserted
Class Function	InsertDataToTable getSearchPurchaseFrameDataInserted
Class Function	PurchaseDBOperation getAllPurchasePaymentInfo
Class Function	InsertDataToTable getDataInserted
Class Function	InsertComboBoxToJtable getComboBoxInserted
Class Function	PurchaseDBOperation getAllPartyAdvanceInfo updatePurchasePaymentinfo updateSearchPaymentStatusinfo updateAdvanceInfo
Class Function	ManageProfileDBOperation insertStaffLoginDetails

7.13 Purchase Payment

The staff can also search for the payment status for purchases that have been performed previously. The staff can filter this list by providing the name of the client and the payment status such as payable, payment done and partial payment. The staff can also filter the results using a date range. The results can be downloaded by clicking the download button and the staff can save the changes using the save button.

The screenshot shows a Windows application window titled "PURCHASE PAYMENT Login By sam". The menu bar includes "Manage Client", "Manage Item", "Purchase", "Sale", and "Logout". The main area has a header "Search By:" with fields for "Search:" (containing "007"), "Date:" (with "From: 09/02/2021" and "To: 11/11/2021"), and buttons for "Search" and "Clear Search". Below this is a table listing purchase invoices:

Party Name	Invoice No.	Invoice Date	Invoice Amount	Paid	Paying	Payment Mode	Status	Remaining Balance	Description	Select
SAI ENTERPRISES	007	11/11/2021	354000.0	0.0	0.0	unknown	payable	0.0	yet to be made	<input type="checkbox"/>
COMPU KIDS	008	15/11/2021	25000.0	0.0	0.0	unknown	payable	0.0	yet to be made	<input type="checkbox"/>
COMPU KIDS	01234	17/11/2021	950.0	0.0	0.0	unknown	payable	0.0	yet to be made	<input type="checkbox"/>
RAMACHNADRA PAPER ...	123	04/05/2021	4200.0	1500.0	0.0	Cash	Partial Payment	2700.0	yet to be made	<input type="checkbox"/>
RAMACHNADRA PAPER ...	234	12/05/2021	3840.0	0.0	0.0	unknown	payable	0.0	yet to be made	<input type="checkbox"/>
SAI ENTERPRISES	345	10/10/2021	7680.0	6400.0	0.0	Cash	Partial Payment	1280.0	yet to be made	<input type="checkbox"/>
COMPU KIDS	456	11/08/2021	200000.0	170000.0	0.0	Cash	Partial Payment	30000.0	yet to be made	<input type="checkbox"/>
SAI ENTERPRISES	567	23/07/2021	4602.0	0.0	0.0	unknown	payable	0.0	yet to be made	<input type="checkbox"/>
SAI ENTERPRISES	678	09/02/2021	4602.0	0.0	0.0	unknown	payable	0.0	yet to be made	<input type="checkbox"/>

At the bottom are buttons for "Save" (highlighted with a red box), "Download", and "Check Advance Payment".

Figure 92: Purchase Payment

7.14 Advance Payment

The staff can also access the facility for advance payment for the purchases for the future. This is done by accessing the advance payment option and providing the input in the form of the name of the client/party, the amount paid, date of payment, mode of payment and the description. These details then can be saved by clicking the save button.

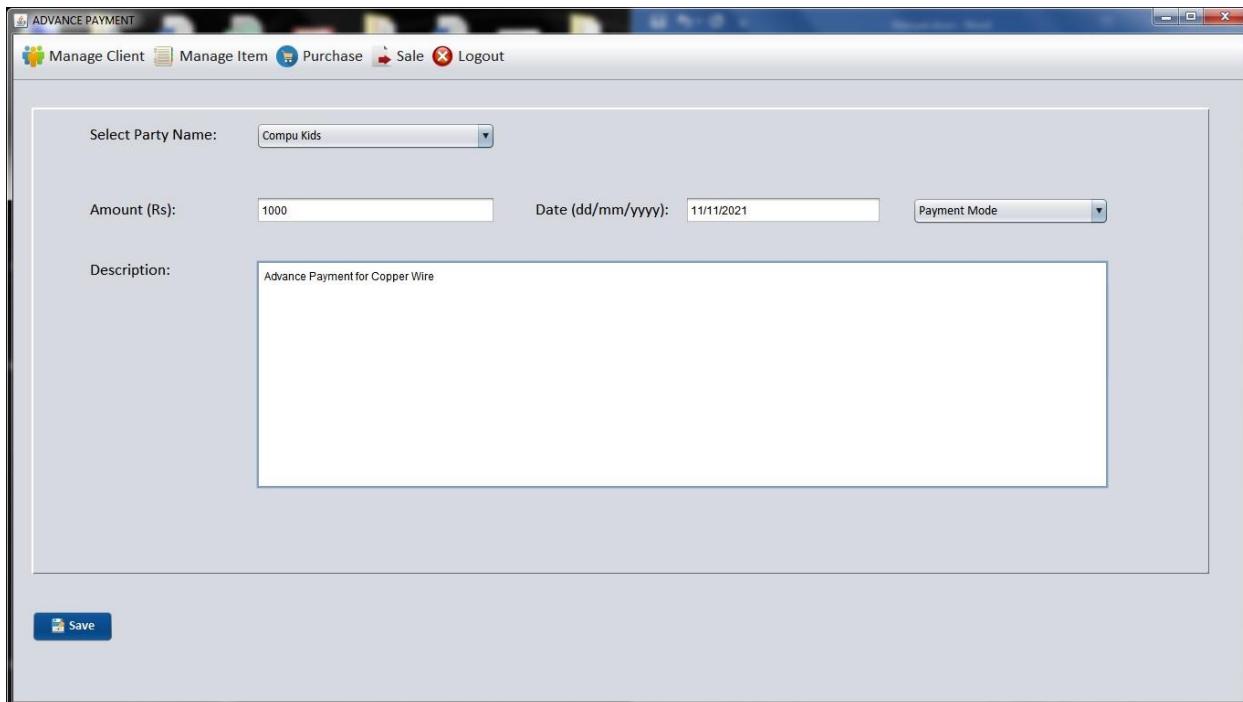


Figure 93: Advance Payment

If any error occurs during advance payment, please debug these classes and their respective functions, as mentioned below.

Class	PurchaseDBOperation
Function	getPartyNames
Function	getAdvancePaymentInfo
Function	addAdvancePaymentInfo
Function	updateAdvancePaymentInfo

7.15 New Sale

The staff is tasked with recording any new sale through the new sale option in the sale tab. The staff then enters the relevant details of the sale, such as the search party, purchase type, cost center, sale ref, invoice number, invoice date, purchase order number. Payment term in days, item name, quantity, price, discount, transport charges, packaging charges and then click the button to save the sale.

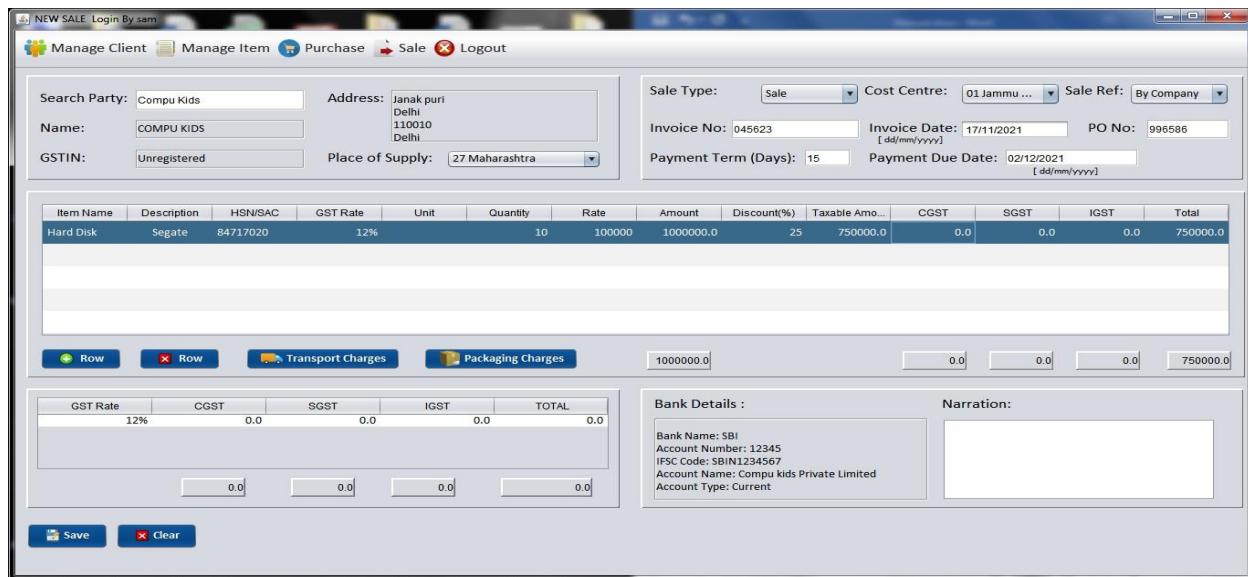


Figure 94: New Sale

If any error occurs during new sale, please debug these classes and their respective functions, as mentioned below.

Class	SaleDBOperation
Function	getHomeCompanyGST
Function	getHighestGSTRateForTransportation
Class	ValidateInvoice
Function	isValidInvoiceNO
Class	SaleDB
Function	isInvoiceExisted
Class	SaleDBOperation
Function	addSaleInfo
Function	addSearchSaleInfo
Function	openItemSelectionFrame
Class	EmptyRowIdentifier
Function	getEmptyRows
Function	isValidDate
Function	isValidMonth
Function	isValidYear
Function	evaluateTotal
Function	getPosition
Function	addIntoGSTPercentageTable
Function	getHighestGSTRate
Function	validGST
Function	getHighestGSTRateForTransportation

7.16 Search Sale

The staff can also search the previously made sales through the search sales section. The staff needs to enter the relevant search query or the date range to filter the search results. The searched entries then can be downloaded in a workbook format by clicking the download button below. The entries can also be deleted in this page using the delete button.

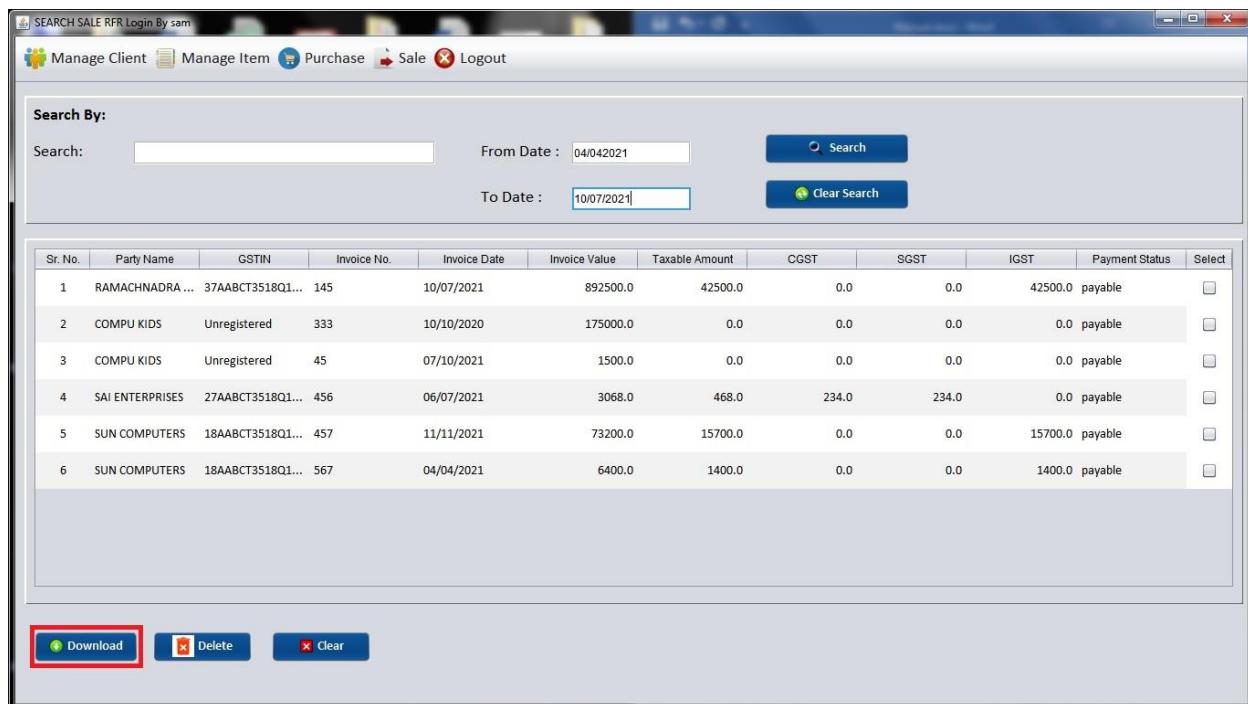


Figure 95: Search Sale

If any error occurs during searching sale, please debug these classes and their respective functions, as mentioned below.

Class	SaleDBOperation
Function	getAllSearchSaleInfo
Class	InsertDataToTable
Function	getSearchPurchaseFrameDataInserted
Class	CreateExcelFile
Function	getExcelFile