



USER GUIDE

IAM APPLICATION

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INTRODUCTION

Scope and Purpose:

The Identity Access Management System is fashioned to handle identities and its attributes. The objective of this application is to render a platform to the user to perform operations like **Create, Read, Update and Delete** operations on the database by an ADMIN.

- Privacy support feature for online transaction using IDM solution focusing on privacy.
- Defined permissions enabled for Admin and other users.
- Centralization of ADMIN.

This application was built using:

- **Platform:** Platform Independent
- **IDE:** Eclipse Latest version: Oxygen 4.7.1a
- **JDK:** JDK 1.8
- **DataBase:** Derby DBM

PROCESS OVERVIEW

The identity management application is a console-based application; the ADMIN has to select one of options available.

1. Login Authentication
2. Identity Create
3. Identity List/Read
4. Identity Update
5. Identity Delete
6. Identity Read All
7. Identity Delete All
8. Exit

First, we need to start the Derby server, which is located in `\db-derby-10.14.2.0-bin\bin\startNetworkServer.bat`

Login Authentication

- When the application starts, ADMIN can enter his ID and PASSWORD to authorize and enter into the IAM Application.
- ADMIN ID and PASSWORD are stored in the Configuration properties.

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- Admin Id : **root**
- Admin Password: **root**
- When the ADMIN authenticates the applications shows as:

```

Console
Launcher (1) [Java Application] C:\Program Files\Java\jre1.8.0_161\bin\javaw.exe (Jul 7, 2018, 7:44:42 PM)
-----
Welcome to the IAM Core Software
-----
Enter your Admin ID:
root
Enter your Admin Password:
root
Admin Authenticated !
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
|

```

- When the ADMIN enters the invalid credentials, fails to authenticate the application and it shows the failure message and exists from the Application.

```

Console
<terminated> Launcher (1) [Java Application] C:\Program Files\Java\jre1.8.0_161\bin\javaw.exe (Jul 7, 2018, 7:48:25 PM)
-----
Welcome to the IAM Core Software
-----
Enter your Admin ID:
shruthi
Enter your Admin Password:
chandrasekaran
Admin Authentication failed. Check your ID and Password.
Thank you for using IAM Core Software

```

Identity Creation:

- When the ADMIN authentication is success, it displays list of operations to perform.
- In case of creating an Identity in the Database, choose option 1.
- Then enter the username, firstname, lastname, email, password of the users.

```

Console
Launcher (1) [Java Application] C:\Program Files\Java\jre1.8.0_161\bin\javaw.exe (Jul 7, 2018, 8:19:05 PM)
Admin Authenticated !
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
1
Creating the Identity..
Enter the username:
shruthi
Enter the first name:
Shruthi
Enter the last name:
Chandrasekaran
Enter the email address:
shruthi@gmail.com
Enter the password:
shruthi
The Identity created was:
Username FirstName LastName      Email      Password
-----
shruthi  Shruthi    Chandrasekaran shruthi@gmail.com shruthi

The User "shruthi" created in the IAM Core.
Do you want to continue: yes/no?
|

```

- If any of the fields are null, then it displays the appropriate message.

```

Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
1
Creating the Identity..
Enter the username:

Enter the first name:
Vivi
Enter the last name:
Zacharia
Enter the email address:
vivi@gmail.com
Enter the password:
vivi
Some of the user details are null. Please verify and enter the details to Create.
Do you want to continue: yes/no?
|

```

Identity List/Read:

- When the ADMIN choose option 2 (Modify an Identity), it checks the users in the database and displays their User Id and the Username.
- ADMIN can select the User Id, which ever he needs to read as shown below:

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
2
Listing an Identity...
Select an Identity ID to search:
UserID Username
-----
604    shruthi

604
The Identity you wanted:
UID Username FirstName LastName      Email      Password
---
604 shruthi  Shruthi  Chandrasekaran shruthi@gmail.com shruthi

Do you want to continue: yes/no?
|
<
```

- When ADMIN enters some different Id, which is not recognized in the Database, it displays the appropriate message.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
2
Listing an Identity...
Select an Identity ID to search:
UserID Username
-----
604    shruthi

100
Identity Not Found : 100
Do you want to continue: yes/no?
|
<
```

- When there is no data in the database, it display the appropriate message.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
2
Listing an Identity...
There are no Identities in IAM Core. Please add some identities using Create operation !
Do you want to continue: yes/no?
|
```

Identity Update:

- When ADMIN choose option 3 (Modify an Identity?), it check the users in the database and displays the User Id and Username.
- ADMIN then select the User Id to modify the details of the Identity user.
- Once it validates, it displays the list to select what is to be updated for the requested User Id.
- After all the modifications. ADMIN needs to choose option 6 in the list to update the Identity user in the Database.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
3
Identity Updating...
Select an Identity ID to update:
UserID Username
-----
605    shruthi

605
Do you want to update identity: 605  yes/no
yes
Choose the field to update
1. Username
2. Firstname
3. Lastname
4. Email
5. Password
6. Update
<
```

```

Console
Launcher (1) [Java Application] C:\Program Files\Java\jre1.8.0_161\bin\javaw.exe (Jul 7, 2018, 11:11:32 PM)

Select an Identity ID to update:
UserID Username
-----
605      shruthi

605
Do you want to update identity: 605 yes/no
yes
Choose the field to update
1. Username
2. Firstname
3. Lastname
4. Email
5. Password
6. Update
1
Enter the new Username:
shru
Choose the field to update
1. Username
2. Firstname
3. Lastname
4. Email
5. Password
6. Update
2
Enter the new Firstname:
Shru

~
Enter the new Firstname:
Shru
Choose the field to update
1. Username
2. Firstname
3. Lastname
4. Email
5. Password
6. Update
6
This is the identity you updated:
UID Username FirstName LastName Email Password
---
605 shru Shru Chandrasekaran shruthi@gmail.com shruthi

Identity Successfully Updated in IAM Core
Do you want to continue: yes/no?
<

```


- If there is no data in the Database to update, it shows the appropriate message.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
3
Identity Updating...
There are no Identities in IAM Core. Please add some identities using Create operation !
Do you want to continue: yes/no?
|
<
```

Identity Delete:

- When ADMIN choose option 4 (Delete an Identity?), it check the users in the database and displays the User Id and Username.
- ADMIN then select the User Id to delete the Identity user and confirms the deletion of data.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
4
Deleting an Identity...
Select an identity id
UserID Username
-----
605      shru
606      Vivi

605
Do you really want to delete an Identity: 605 yes/no
yes
This is the identity you want to delete:
UID Username FirstName LastName      Email      Password
-----
605 shru      Shruthi   Chandrasekaran shruthi@gmail.com shruthi

Identity Successfully Deleted in IAM Core
Do you want to continue: yes/no?
|
<
```

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- If there is no data in the Database to delete, it shows the appropriate message.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
4
Deleting an Identity...
There are no Identities in IAM Core. Please add some identities using Create operation !
Do you want to continue: yes/no?
|
<
```

Identity Read All:

- When ADMIN choose option 5 (Search all Identities?), as it displays all the data from Identities table it requests for the ADMIN PASSWORD again for the verification.
- If the verification is successful, it displays all the data from the Database table.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
5
All the Identities from IAM Core
Enter your Admin Password:
root
UID Username FirstName LastName      Email                Password
---
606 Vivi      Viviya    Zacharia    vivia@gmail.com    vivi
607 shruthi    Shruthi   Chandrasekaran shruthi@gmail.com  shruti

Do you want to continue: yes/no?
|
<
```

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- If the verification is not successful, it does not display any data and it shows the appropriate message.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
5
All the Identities from IAM Core
Enter your Admin Password:
shruthi
Admin Authentication failed. Check your Password.
Do you want to continue: yes/no?
|
<
```

- If there is no data in the Database to read all the identities, it shows the appropriate message.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
5
All the Identities from IAM Core
Enter your Admin Password:
root
There are no Identities in IAM Core. Please add some identities using Create operation
Do you want to continue: yes/no?
|
<
```

Identity Delete All:

- When ADMIN choose option 6 (Delete all Identities?), as it deletes all the data from Identities table it requests for the confirmation and the ADMIN PASSWORD again for the verification.
- If the verification is successful, it displays all the data from the Database table.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
6
Deleting all the Identities from IAM Core
Are you sure you want to delete all the Identities? yes/no
yes
If you are sure to delete all the Identities from IAM Core,
Please Enter Admin password:
root
All the Identities are deleted from IAM Core
Do you want to continue: yes/no?
|
```

- If the verification is not successful, it will not delete any data and it will just continue with the application.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
6
Deleting all the Identities from IAM Core
Are you sure you want to delete all the Identities? Yes/no
yes
If you are sure to delete all the Identities from IAM Core,
Please Enter Admin password:
shruthi
Admin Authentication failed. Check your Password.
Deleting all the Identity failed !
Do you want to continue: yes/no?
|
```

- If there is no data in the Database to delete all the identities, it shows the appropriate message.

```
Select an operation:
1. Create an Identity ?
2. Search an Identity ?
3. Modify an Identity ?
4. Delete an Identity ?
5. Search all the Identities
6. Delete all the Identities
7. Exit
6
Deleting all the Identities from IAM Core
There are no Identities in IAM Core. Please add some identities using Create operation !
Do you want to continue: yes/no?
|
```