
Project

“I AM CORE”

DESCRIPTION
EPITA 2017

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1. Subject analysis

1. Major features

The administrator of the database schema can create, modify, delete, and search. There is no graphical user interface for this application but the user can use the command line.

2. Application Feasibility

The application can be used to authenticate and manage user for other applications.

3. Data description

The user will enter:

Display name

Email

UID

Actions to perform

4. Expected results

The application will display the created Identities. The user can view all identities when modifying or deleting.

5. Scope of the application (limits, evolutions)

The present project does not really allow Identity to connect to the database.

The next step will be to grant privileges to each Identity and check the right to display the menu. Right now, only the root the schema can connect to the database.

Other step will be to include a Graphical interface to the application.

Managing sql jointures are not very easy especially between attributes and the other classes, another step will be to use a tool such as Hibernate or Spring

The search feature also is not well advance and search methods need to be implemented The Identity password is not yet secured

2. Conception

The application contains the following packages:

Business package

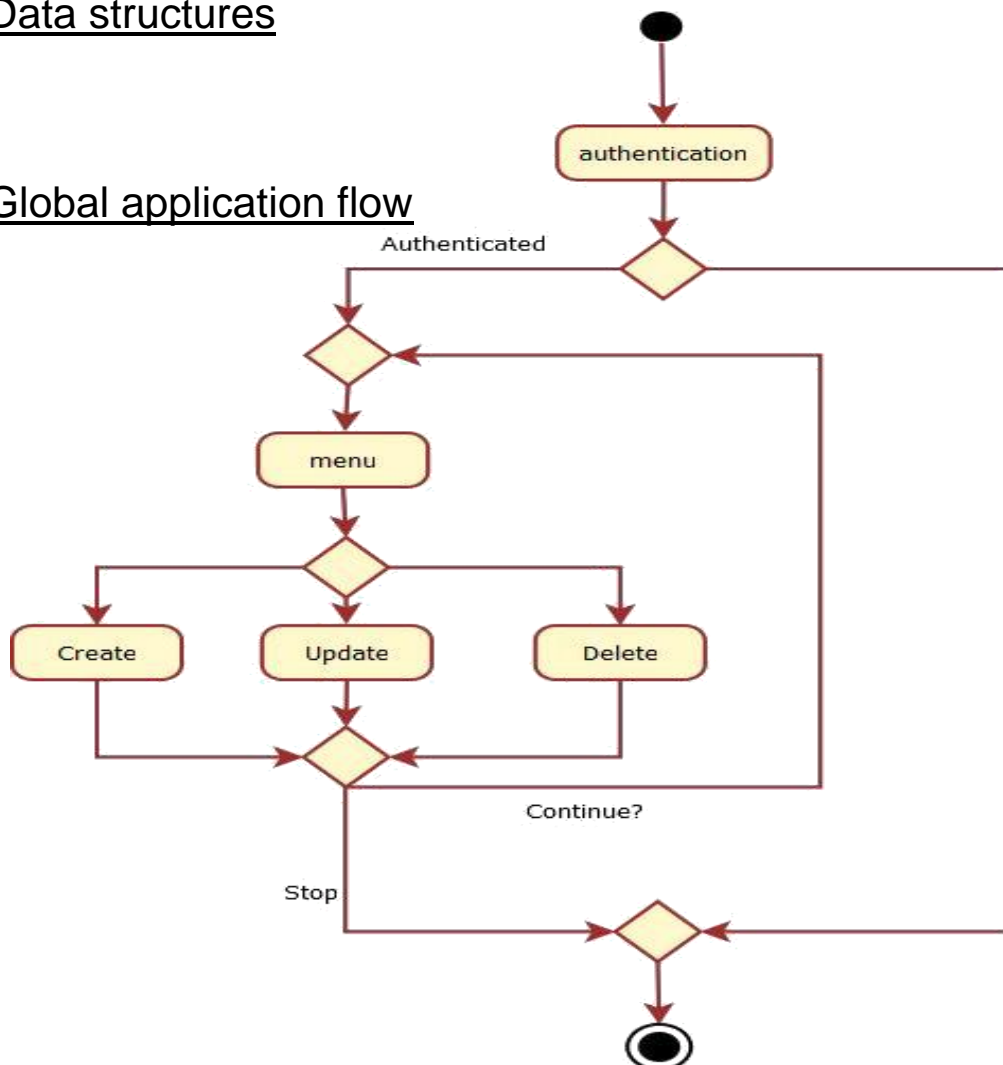
Launcher package

Exceptions package

Datamodel package
Services package

1. Data structures

3. Global application flow



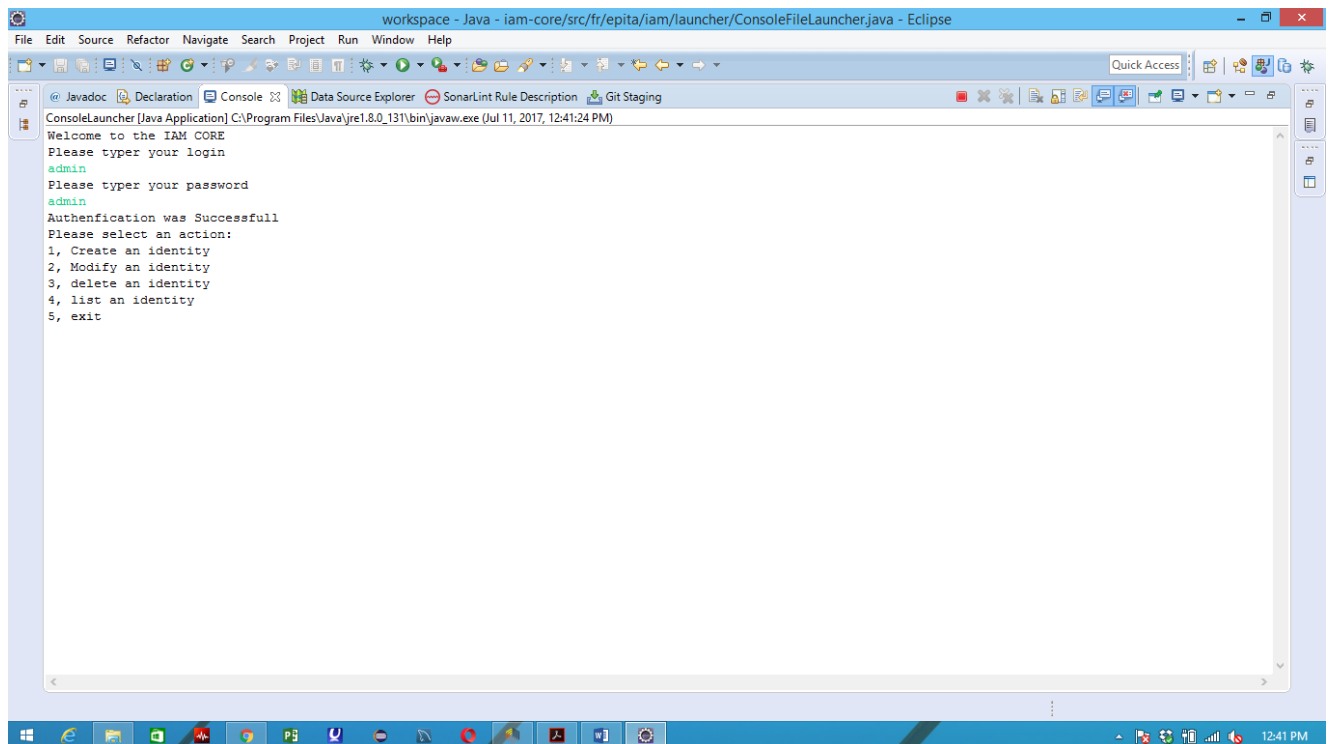
4. Global schema and major features schema

3. Console operations description

1. Authenticate

- The user launches the application the application requests the login
- The user enters a login "Admin"
- The application requests the password
- The user enters the password "Admin"

The application return a successful message to user.



```
workspace - Java - iam-core/src/ft/epita/iam/launcher/ConsoleFileLauncher.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Javadoc Declaration Console Data Source Explorer SonarLint Rule Description Git Staging
ConsoleLauncher [Java Application] C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe (Jul 11, 2017, 12:41:24 PM)
Welcome to the IAM CORE
Please typer your login
admin
Please typer your password
admin
Authenfication was Successfull
Please select an action:
1, Create an identity
2, Modify an identity
3, delete an identity
4, list an identity
5, exit
```

2. Create an Identity

- The user selects action
- The user enters all basic attributes of the Identities
- The application creates an Identity
- The application prompt the user to continue or the leave the application

```
workspace - Java - iam-core/src/fr/epita/iam/launcher/ConsoleFileLauncher.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
@ Javadoc Declaration Console Data Source Explorer SonarLint Rule Description Git Staging
ConsoleLauncher [Java Application] C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe (Jul 11, 2017, 12:41:24 PM)
Welcome to the IAM CORE
Please typer your login
admin
Please typer your password
admin
Authentication was Successfull
Please select an action:
1, Create an identity
2, Modify an identity
3, delete an identity
4, list an identity
5, exit
1
Identity Creation
please input the displayName
Ifeanyi
please input the email address
ifeanyi@mindafrica.org
please input the password
asdf
please input the birthday (dd-mm-yyyy)
01-04-1987
this is the identity you created
Identity {uid=, isAdmin=false, displayName=Ifeanyi, email=ifeanyi@mindafrica.org, password=asdf, birthday= 1987-01-01, Attributes=[], Addreeses=[]}
creation Done
Do you want to continue: y/n?
```

3. Modify an Identity

The application prompt the user to select an action. The user types “2”

The application presents to insert a UID, which the user want update their attribute.

The application prompts the user to enter a value for that attribute the user enters a value for the selected attributes

The application update the identity

The application prompt the user to continue or the leave the application

4. Delete an Identity

The application prompt the user to select an action the user types “3”

The application presents a list of identity created by their

UID. User Select one UID he want to delete

The application delete the identity

The application prompt the user to continue or the leave the application

5. List all Identity

This application prompt the user to select an action

The user type ‘4’

The application present to insert a UID what user want to search

The user enter the UID

The application search the identity and display to user

The application prompt the user to continue or the leave the application

4. Configuration instructions

1. Setup the database:

- Download apache derby client
- Create an instance of derby name it instance name =new derby with username="user" and password="user" and table name is Derby.
- run /db-derby-10.13.1.1-bin/bin/startNetworkServer
- Go to iam-core/src/fr/epita/iam/config/config.properties
edit user value with the user name you used to create your derby schema
Do the same with password, the name if instance if you used your own values
- Go to iam-core/sql run create_tables.sql on your instance mynew

2. Run the application:

- Go to iam-core/src/fr/epita/iam/launcher execute ConsoleLauncher.java

3. Developers:

- Go to iam_core/javadoc for documentation