**Java project**

**Fundamental period 2017**

**EPITA**

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**JAVA DOCUMENTATION**

**SUBJECT DESCRIPTION**

**INTRODUCTION**

This report contains all the detail from start to end of iamcore project development.

Keeping track of personal information disclosed on the Internet, as well as maintaining high standards of internal control and information security within companies has become increasingly complicated. Identity and Access Management applications lay at the core of resolving these types of problems. Identity and Access Management (iam) can be defined as following: A comprehensive set of processes that enable end users to securely access a broad range of internal and external IT systems that controls the digital representation of users and manage

• Java is Easy to write and more readable and eye catching.

• Most of the concepts are drew from C++ thus making Java learning simpler.

**OBJECTIVE**

The main goal of this project is to develop an application using Java which can automatically connect to a database and store information in the database and to retrieve, modify and delete the information in the database.

The following are the objectives that the application needs to satisfy:

1. Authenticate
2. Create identity
3. Search identity
4. Delete identity
5. Delete identity

**Major Features**

• Highly user-friendly

• Platform Independent

• Easy to use

• Robust

• Easy Modification

**ENVIRONMENT**

OS: windows 10

LANGUAGE: Core Java

IDE: eclipse

DATABASE: phpMyAdmin

**Data Description**

The data description and data access objects are clearly specified below. The Schema for data is IDENTITY\_UID : INT, Auto generated, Unique

IDENTITY\_DISPLAYNAME: STRING

IDENTITY\_EMAIL: STRING

IDENTITY\_BIRTHDATE: STRING

**DAOs**

• **Authenticate:** This module takes user name and password. This module validates auser before login to IAM system

Input parameter: User name, password

Output parameters: Authentication Accepted / Denied

• **create Identity**: This process is used to create a new identity in the database.

Input parameter: Uid, Name, Email, date birth

Output parameters: Entry added to database

• **delete Identity**: This process is used to delete an identity from the database.

Input parameter : Uid

Output parameters : Identity deleted from the database.

• **update Identity :** This process is used to change any record already present in the database and updates the database accordingly.

Input parameter : Uid

Output parameters : Identity modified in the database.

**Expected Results**

• The result of the application can be looked as a highly sophisticated, user friendly and secure tool created for Identity and access management.

• This tool can authenticate the user, creating a new identity, updating an existing identity, and deleting an identity from the database.

• The database used is a PHPMYADMIN database.

• The tool needs to communicate with the database and return with the results in quick time

**CONCEPTION**

**APPLICATION FLOW**

**![A screenshot of a cell phone

Description generated with very high confidence]()**

**![A close up of a map

Description generated with high confidence]()**

**Console operations and descriptions**

Console Operations Implemented in this Systems are

1. Authenticate user

2. Create an Identity

3. Update an existing Identity

4. Delete an Identity

Each Operations are explained below

• **Authenicate User** User authentication is done by an authenticate method , that takes input as username and password, and calls a validateUser method which connects to the database and authenticates the user if provided credentials are correct, else will not authenticate the user and system stops.

• **Create an Identity** This console operations allows an authenticated user to create a new identity. Identity Uid, name and email are provided by the user.The method used for creating a new identity is createIdentity.

• **Update an Identity** This console operation allows a user to update an existing identity. To update an identity the user must provide the uid of an identity, which is to be updated.The method used is updateIdentity

• **Delete an Identity** This console operation allows a user to delete an existing identity and the user is supposed toprovide the uid of the identity which is to be deleted. Method used is deleteIdentity

5.CONFIGURATION

• Username : root

• Password : root

• Database : phpmyadmin

**Screenshots**

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