**Data Dictionary:**

**Graphical user interface, application

Description automatically generatedTable UserInformation:** It is used to store information about Mini-Facebook users. The UserInformation table has a one-to-many relationship with the RoleForUser, AddressInformation and PicturesForUser tables.

*UserName:* The username is a name that one chooses when subscribing to the Mini-Facebook and is defined as a text string (VARCHAR) that will be up to 20 characters long. *UserName* is the PK of the UserInformation table and will also allow each user to have a unique username.

*PasswordHash:* This is the hash value of the user's password and is defined as a medium-sized text (MEDIUMTEXT). This field is used to store user passwords.

*Name:* This is the user's full name and is defined as a text string of up to 20 characters. This field is mandatory and cannot be empty.

*Telephone:* Is the user's telephone number and is defined as a text string of up to 20 characters. This field is mandatory and cannot be empty.

*dob:* User's date of birth and is defined as a text string of up to 20 characters. This field is mandatory and cannot be empty.

*gender:* User's gender and is defined as a text string of up to 10 characters. This field is mandatory and cannot be empty.

*email:* Is the user's email address and is defined as a text string of up to 100 characters. This field is mandatory and cannot be empty.

**Table picturesForUser:** The picturesForUser table is used to store the pictures associated with Mini-Facebook users. This table has a many-to-one relationship with the UserInformation table.

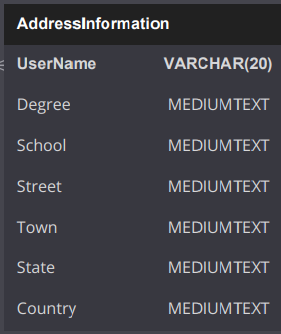
Graphical user interface, text, application

Description automatically generated

*PicturePath:* This is the path of the picture in the file system and is defined as a mediumtext. This field is mandatory and is used as the primary key of the table to ensure that each image has a unique path.

*UserName*: This is the user name associated with the image and is defined as a text string of up to 50 characters. This field is mandatory and is used as a foreign key that references the UserName field in the UserInformation table. This allows to relate the image to the corresponding user in the other table.

FOREIGN KEY (UserName) REFERENCES UserInformation(UserName): This line defines a foreign key constraint that ensures that images can only be added for users that exist in the UserInformation table.

**Table AddressInformation:** Is used to store the address information of the users registered in the Mini-Facebook. It has a many-to-one relationship with the UserInformation table.

*UserName:* This field is used as a foreign key that references the UserName field in the UserInformation table. It is a text string of up to 20 characters and is used to identify the user to whom the address belongs. This field is also the primary key of the table.

*Degree:* This field is used to store the user's academic level and is defined as a medium size text (MEDIUMTEXT). This field cannot be empty (NOT NULL).

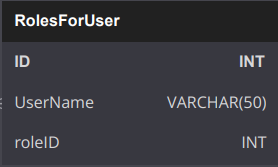
*School:* This field is used to store the name of the educational institution where the user completed his education and is defined as a medium size text (MEDIUMTEXT). This field cannot be empty (NOT NULL).

*Street:* This field is used to store the street address where the user lives and is defined as a medium sized text (MEDIUMTEXT). This field cannot be empty (NOT NULL).

*Town:* This field is used to store the name of the town where the user lives and is defined as a medium size text (MEDIUMTEXT). This field cannot be empty (NOT NULL).

*State:* This field is used to store the name of the state or province where the user lives and is defined as a medium size text (MEDIUMTEXT). This field cannot be empty (NOT NULL).

*Country:* This field is used to store the name of the country where the user lives and is defined as a medium size text (MEDIUMTEXT). This field cannot be empty (NOT NULL).

**Table RolesForUser:** The RolesForUser table is used to assign roles to Mini-Facebook users. It has a many-to-one relationship with the UserInformation table and Roles table.

*ID:* This is a unique identification field for each record in the table and is defined as a non-null, auto-incrementing integer. This field is the primary key of the table.

*UserName:* This is the user name associated with the role and is defined as a text string of up to 50 characters. This field is mandatory and is used as a foreign key that references the UserName field in the UserInformation table. This allows relating the role with the corresponding user in the other table. The line “FOREIGN KEY (UserName) REFERENCES UserInformation(UserName)” defines a foreign key constraint that ensures that only users that exist in the UserInformation table can be assigned roles.

*roleID:* It is the identifier of the role assigned to the user and is defined as a non-null integer. This field is used as a foreign key that references the roleID field in the Roles table. This ensures that only roles that exist in the Roles table can be assigned. The line “FOREIGN KEY (roleID) REFERENCES Roles(roleID)” defines a foreign key constraint that ensures that only roles that exist in the Roles table can be assigned.

Graphical user interface, text, application

Description automatically generated**Table Roles:** Is used to store information about the different roles that exist in the system. It has a one-to-many relationship with the RoleForUser table and roleForWebPage table.

*roleID:* It is a unique identification field for each role in the table and is defined as a non-null and auto-incremental integer. This field is the primary key of the table.

*roleName:* This is the name of the role and is defined as a text string of up to 50 characters. This field is mandatory and is used to identify the role.

*description:* Is a description of the role and is defined as a text string of up to 255 characters. This field is mandatory and is used to provide additional information about the role.

**Graphical user interface, application

Description automatically generatedTable rolesForWebPage:** The table roleForWebPage is used to assign roles to web pages in the system.

*ID:* This is a unique identification field for each record in the table and is defined as a non-null, auto-incrementing integer. This field is the primary key of the table.

*RoleID:* This is the identifier of the role associated with the web page and is defined as a non-null integer. This field is used as a foreign key that references the roleID field in the Roles table. This allows to relate the role with the corresponding web page in the other table. The line “FOREIGN KEY (RoleID) REFERENCES Roles(roleID)” defines a foreign key constraint that ensures that only roles that exist in the Roles table can be assigned.

*Page:* This is the name of the web page associated with the role and is defined as a text string of up to 40 characters. This field is mandatory and is used as a foreign key that references the Page field in the webPages table. This allows the web page to be related to the corresponding role in the other table. The line “FOREIGN KEY (Page) REFERENCES webPages(Page)” defines a foreign key constraint that ensures that only web pages that exist in the webPages table can be assigned.

**A screenshot of a computer

Description automatically generated with low confidenceTable webPages:** Is used to store information about web pages in the system.

*Page:* is the name of the web page and is defined as a text string of up to 40 characters. This field is mandatory and is used as the primary key of the table.

*Description:* It is a description of the web page and is defined as a text string of medium length (mediumtext) that cannot be null. This field is used to provide additional information about the page.

*menuID:* It is the identifier of the menu item that represents the page and is defined as a numeric value. This field is optional and is used as a foreign key that references the menuID field in the menuElement table. This allows you to relate the web page to the corresponding menu item in the other table.

**A screenshot of a computer

Description automatically generated with low confidenceTable menuElement:** The menuElement table is used to store information about the Mini-Facebook menu items, depending on the type of Role a user has.

*menuID:* This is the identifier of the menu item and is defined as a numeric value. This field is mandatory and is used as the primary key of the table.

*title:* It is the title of the menu item and is defined as a text string of up to 40 characters. This field is mandatory and provides the name of the menu item.

*Description:* It is a description of the menu item and is defined as a medium text string that cannot be null. This field is used to provide additional information about the menu item.

Graphical user interface, text, application

Description automatically generated**Table webPageFlow:** The webPageFlow table is used to record the user's navigation flow in the web system.

*id:* This is the identifier of the page flow record and is defined as an auto-incrementing numeric value. This field is mandatory and is used as the primary key of the table.

*currentPage:* This is the name of the current page being viewed by the user and is defined as a text string of up to 255 characters. This field is mandatory and is used to record the current page.

*previousPage:* This is the name of the previous page that the user has visited and is defined as a text string of up to 255 characters. This field is optional and is used to record the previous page.

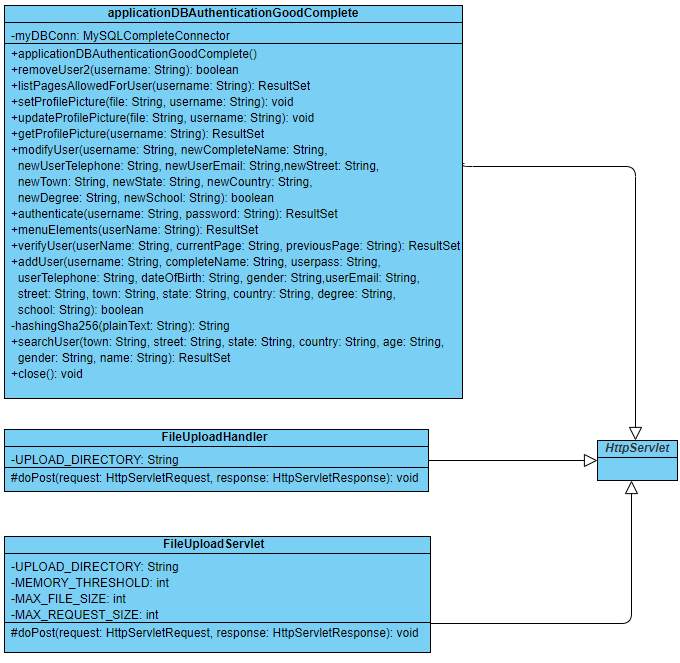
**UML Diagrams:**

**A picture containing table

Description automatically generated**

**Table

Description automatically generated with medium confidence**

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