

# SIMPLE SOCIAL NETWORKING HELLO APP

**P**roject team members can use enterprise social networking software to work closely together on group activities and tasks. The system can keep all users updated on the latest developments.

**HELLO** app is one such enterprise social networking web application which helps connect with friends and trainers at Techouts.



Employees can post their work status, send messages to friends and trainers.

<b>Features Implemented</b>	<ul style="list-style-type: none"><li>• User login, logout, persistent session.</li><li>• Display Profile Information.</li><li>• Display Messages.</li><li>• View Friends.</li><li>• View Individual Profile.</li><li>• Display/Change Settings.</li></ul>
<b>Future Work</b>	<ul style="list-style-type: none"><li>• User Signup.</li><li>• Send Messages.</li><li>• Add/Delete Friends.</li><li>• Ability to change user role.</li><li>• UI Improvement.</li></ul>

# Login Page/Signup Page

The login page is the starting point of the web application.

A user can login into the account using username and password assigned. If the user does not have an account, the user can register an account using the signup form. The user has to click the “New User?” link to access the signup form.

## Technical

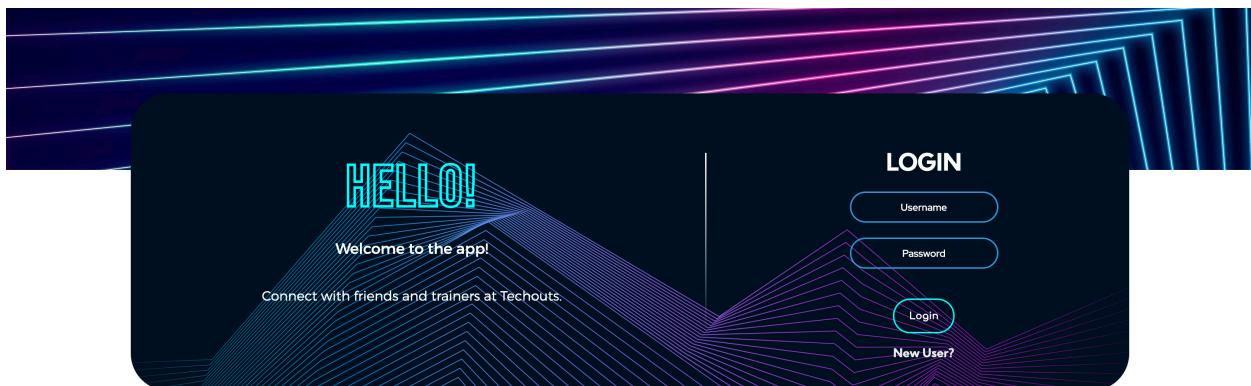
The page is made of two CSS flex boxes - horizontal and vertical.

The image on the background is the first child of the horizontal flex box. Login box is the second child of the horizontal flex box. It has the **top** and **left** properties set to overlap the first child. Footer is the third child of the flex box.

Login box is the vertical flex box. The application description is the first child of the login box. It has the logo and application description. The second child is the white vertical bar faded at the bottom. The third child is the login form.

The form sends the username and password entered in the input forms to the **Login** servlet.

The **Login** servlet asks the database access object (**dbDAO.java**) to connect to the database. If the connection is successful, the **Login** servlet proceeds to search for the username and password in the database using the **login()** method

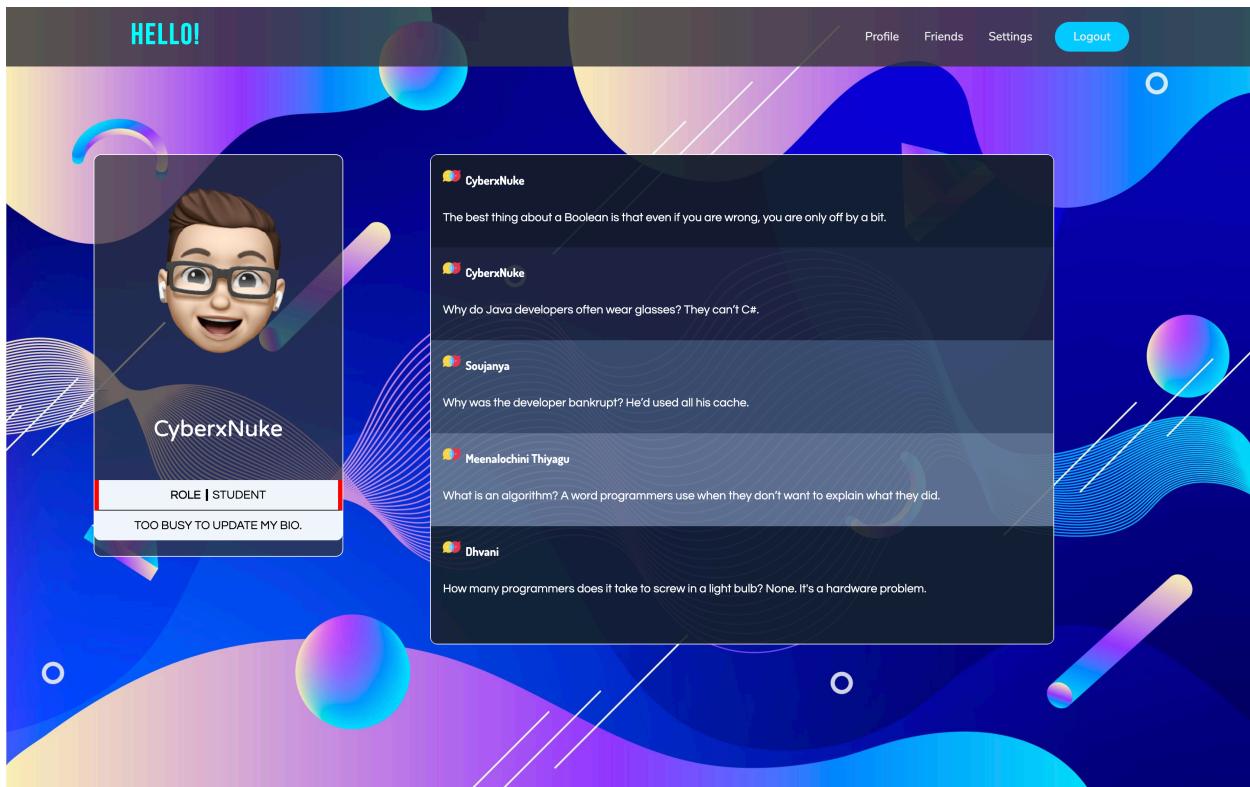


in **dbDAO**. If username and password is found, the user is redirected to the account.

# Account Page

The account page contains the profile information and the messages or statuses posted by friends or trainers.

The profile information box on the left contains the profile image, name, role, description. Name on the account, description and email can be changed in the settings page later.



The status box on the right contains the status or messages posted by friends and trainers.

## Technical

The page is made of three CSS flex boxes - 2 horizontal and 1 vertical.

The top navigation bar is the first child of the horizontal flex box. The profile (vertical) flex box is the second child of the horizontal flex box.

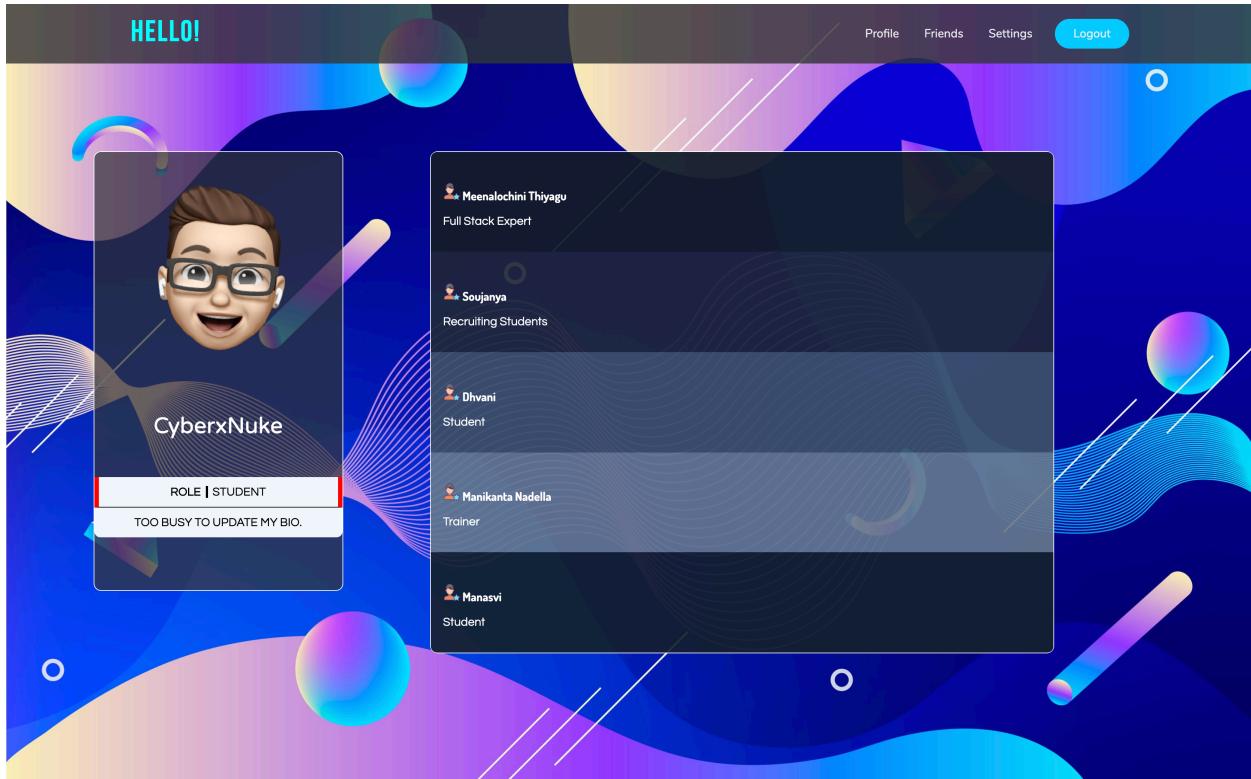
The vertical box has the profile information box as its first child. The message or status box is the second child.

Message or status box is a horizontal flex box. The 5 **div's** are children of the flex box.

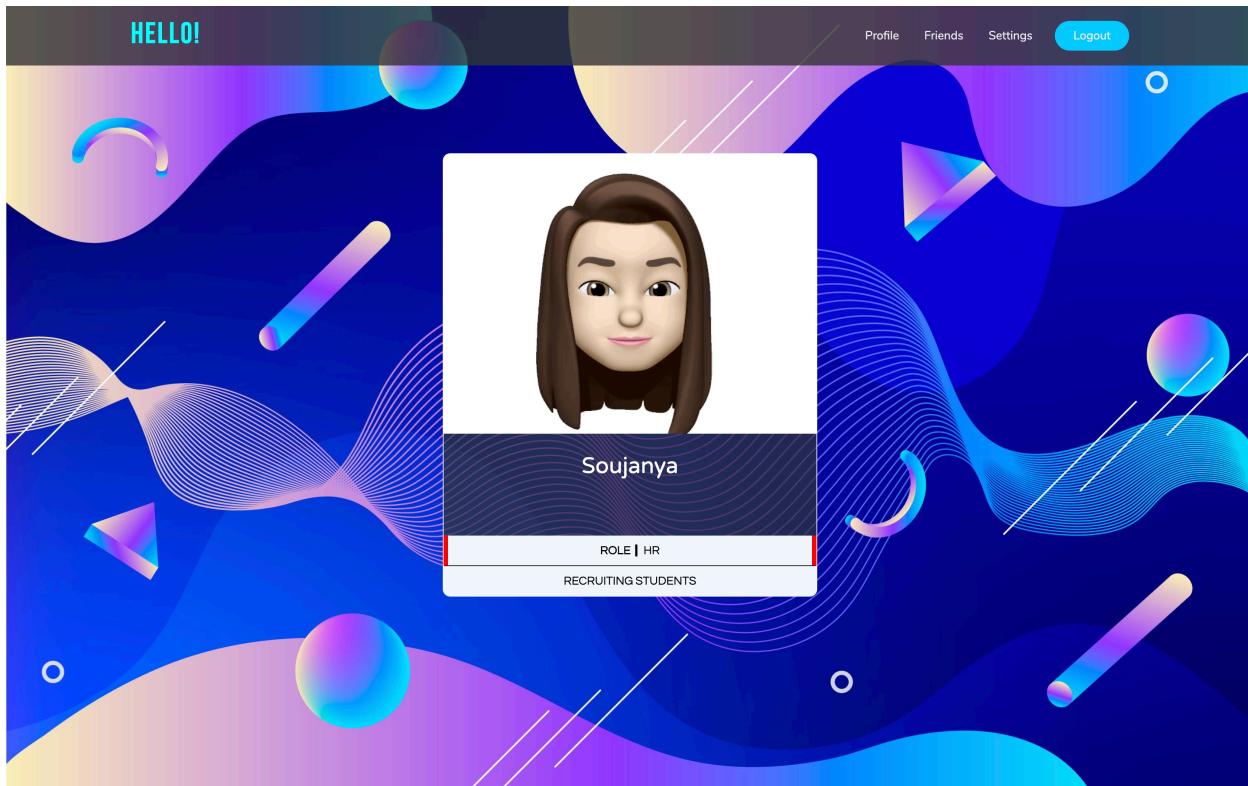
Each message or status is stored and retrieved from the database. The database used is MySQL. The name of the database is **helloDB**. The **dbDAO** has the **getUserStatuses()** method which helps to retrieve the messages or statuses.

## Friends Page

The account page displays the friends list.



The user can click on the name of the friend or trainers list to view friend's profile.



## Technical

The design of the page is similar to the profile page.

The friends list is stored and retrieved from the database. The **dbDAO** has the ***getFriendsList()*** method which helps to retrieve the friends list.

## Settings Page

The settings page has the settings form. User can change the name on the account, description, email address.

## Technical

**Insert** and **Update** operations are handled by the **Settings** servlet. If the user is a new user then the Settings servlet calls the ***insertUserDetails()*** method from the **dbDAO**. If the user is already a registered user the servlet calls the ***updateUserDetails()*** method from the **dbDAO**.

# Logout Servlet

The logout servlet helps the user to logout.

The web application uses **setAttribute()** method of the HttpSession object to maintain the session persistence. The logout servlet also closes the singleton class **dbDAO** object.

```
loginSession.setAttribute("loggedIn", false);
loginSession.setAttribute("username", null);
dbObj.closeConnection();
response.sendRedirect("login.jsp");
```