



Problem Statements (Backend) for Internship - 2014

Backend developer PS

To develop a social connection module using PHP and MySQL.

General instructions:

- Use PHP as your language of preference. If you want to use any other language, then please let us know well in advance. Do not use any PHP frameworks.
- You can use CSS libraries like bootstrap or foundation if you want. We wont evaluate you on the design aspect, hence you need not replicate the exact design, simple schematic would do.
- Code should be readable by other fellow developers, keep the code as neat and clean as possible
- You have the flexibility to design your own database structure using MySQL
- Think that the module you are building is going to be online and will serve millions of users across the world and make is robust and bug free.
- Send your entries in a .zip format. The folder should contain a Readme.txt file explaining file structure of the folder and code testing and installation instructions.
- Any doubts you have please drop us an email (hi@ambitionbox.com), we will always be there to help you.

Login / sign up

username

password

Register

Sign up

Login / sign up instructions

- Use simple 2 inputs to login or signup. i.e. username(unique) and password. Entering the username and password in the form the user can choose to signup or login in the same page.
- Do the form validation and register the user in the database and on success redirect the user to his profile page.
- Form validation can be done using JavaScript + Ajax or just using PHP, choose whichever you are comfortable with.

User Profile

User Name

Friends

Logout

Updates

Update from *friend1*

Congratulations to all the people who cleared round 1

Update from *friend2*

Hello friends, All the best for your Round 2 of the selection process.

...

Post a new update

Type your status update here...

Post

User Profile Instructions

- The user profile has the friends updates, status update form, and links to friends page and logout
- **Friends updates:** These are like tweets, there can be more than one update from the same friend but at different time, display all that in this section sorted by time of status update. Assume the update string will be less than 200 characters. Max updates display on profile should be limited to 20.
- **Post a new update:** This is a textual update from the user, when posted it should turn up on all his friends “Friends updates” section. There is no like and comment feature for these updates.
- Clicking on friends button should redirect to the friends page (*page3*)

Friends

User Name

Friends

Logout

Friend Requests

User_5	<input type="button" value="Yes"/>	<input type="button" value="No"/>
User_8	<input type="button" value="Yes"/>	<input type="button" value="No"/>
User_13	<input type="button" value="Yes"/>	<input type="button" value="No"/>
...		

Friends

User_2

User_9

User_11

User_15

...

All Users

Type your status update here

User_1

User_3

User_4

User_6

User_7

User_10

...

Friends Instructions

The “Friends “ page has 3 sections

- **Friend requests:** This section displays all the friend requests pending for you and options (Yes/No) to either accept or reject the friend request.
- **Friends:** This section displays a list of all the friends you have. Viewing someone’s profile and unfriend features are optional.
- **All users:** This section should display a list of all the users in the database who aren’t friends. Just in front of the username display a button to send a friend request to that user. Limit the displaying number of users to 20.
- Clicking on the username on top-left should redirect to the profile page and clicking on logout button should make the user logout of the session.

Evaluation Criteria -Backend

Level of completion of the problem statement. (100 if all the features are working)

How clean and understandable the code is.

Tips: Use a constant convention to name the variables, functions, classes etc. throughout the code and mention the convention in the readme.txt file. Use comments to explain where ever you are trying to do something which is not straight forward. Write a small description about what a function does and input/outputs above the function definition. Keep the code readable by using tabs.

How secure and robust is the code to PHP vulnerabilities (optional)

Tips: Process the user input carefully to be safe for PHP hacks like SQL injections etc. Incase you want to read up about PHP vulnerabilities refer_all 5 pages of <http://www.acunetix.com/websitesecurity/php-security-1/>