

**Faculty of Arts and Sciences**

**Department of Computer Science**

Spring 2018, W. Jureidini

**Project Report**

For the Group Term Project:

**Alumni Affairs System**

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2. **Introduction**

This Project is a website which grants members of the alumni community a platform to view news and events related to them and to view other alumnus’ profiles.

It shares the same essential concepts as the existing alumni website and adds a social media aspect to it where users must login to view the home page’s contents and view other members.

When Logged In, users can view news and events by clicking on the articles listed, and they can manage their personal information that is displayed when viewed by other alumnus and their security settings; in addition to that they can also view other alumnus’ profiles.

1. **Design:**

This project is a website which consists of a series of connected webpages.

* User Log in Page:

This is the first page users are greeted with when they first access the website; if they try to access any other webpage while not logged in, they are redirected to this page.

Here users which are alumni members can input their username and password, if they are correct, they are sent to the homepage.

In addition to that; if users have forgotten their password, they can press on the “Forgot your Password?” link which will send them to a new page where they can input their username to display their security question and answer it; if their answer is correct, the user can change their password otherwise they are alerted that their answer is wrong.

This page fulfills the Log In, Recover Password, and Profile Requirements.

* Home Page:

After the user has successfully logged in to their account, they are sent to the Home page which displays a preview of their account and lists of news, events, and other alumni members whose profiles the user can view.

If the user clicks on a news article they are directed to where that article was taken from.

If the user clicks on an event, they are sent to a new page which displays that events details and description.

To the left, the user can click on other alumni members’ names to view their profile which displays their information.

To the top right, there is a settings cog which gives users the options to logout and change their account information.

This page fulfills the News, Events, and View Other Profiles Requirements.

* Event Page:

When the user clicks on any of the events in the Homepage, they are directed to another page which displays all the details and description of the event.

This fulfills the event requirement.

* Account Settings pages:

The user can access their account’s settings and information by hovering over the cog to the top right corner of the home page and clicking on either personal Information or Account Settings.

In this page, to the left, there are the different information the user can change which are “Personal Information”, “Account Settings”, and “Security Question”.

In Personal Information the user can change their mobile number, address, occupation, and their “about” description. In Account Settings the user can change their password and in “Security Question” the user can change their security question.

These pages fulfill the Profile, Change Password, manage personal Information, and Change Security Question and Answer requirements.

* Other Users’ Profile Page:

When logged in and on the homepage, the user will see a list of other alumni members to the bottom right; if they click on any of the users, they will be directed to another page showing that user’s personal information. This fulfills the “View Other Profiles” requirement.

* Database:

The database used is a sample database which contains a table each for users, events, and news. The Relation Users has the following attributes: username, password, first name, last name, email, degree, address, mobile, occupation, about, Security Question and its answer.

News has attributes: ID, title, subtitle, and Link.

Events has attributes: ID, title, description, details, Date and Location.

1. **Technology:**

Languages Used:

* HTML: for creating the front-end elements.
* CSS: To add style and customization to the HTML elements.
* PHP: Communication between front-end and back-end and for using forms
* Javascript: To dynamically change a webpage depending on actions taken and conditions.
* SQL: To update and select information from the database.

IDEs:

* Atom: IDE for front-end and back-end development with intelli-sense.
* Visual Studio Code: Same as Atom

1. **Innovation:**

The addition of the profiles and accounts aspect to the alumni platform of a university in addition to account management and viewing other profiles.

1. **Teamwork:**

Regular meetups were scheduled to coordinate and discuss plans for the website.

Work was divided in this manner:

* Samer Harb: handled developing the homepage, profile management and account settings webpages, in addition to viewing other users’ profiles, creating the separate page for the event details, and creation of the database.
* Isaac Corm: handled creation of the user log in experience in addition to the recover password functionality, and the ability to list the news and events and view them individually.

1. **Appendices:**
   1. Requirements:

Functional Requirements:

|  |  |  |
| --- | --- | --- |
| Ref ID. | User Story Title | User Story |
| 1 | Log In | As a User, I want to sign in with my already existing account |
| 2 | Recover Password | As a User, I want to have the option to reset my password in case I forget it. |
| 3 | Change Password | As a user, I want to have the option to change my password. |
| 4 | News | As a user, I would like to view news posted by AUB. |
| 5 | Events | As a user, I would like to view upcoming events posted by AUB. |
| 6 | Profile | As a user, I want to have a profile which contains information about myself. |
| 7 | Manage Personal Information | As a user, I would like to change my displayed personal information. |
| 8 | Change Security Question and Answer | As a user, I want to change the security question that I use to recover my password. |
| 9 | View Other Profiles | As a user, I would like to view the profiles of other users. |

1. Log In:
2. Only an alumnus can log in using their username and password provided by AUB.
3. A user logs in the website by accessing the Log in Page and then entering their username and password in the indicated fields and then pressing “Log In”.
4. If the log in is successful they are redirected to the homepage.
5. If the log in is unsuccessful, they are redirected to another page indicating that either the password is wrong or this username does not exist.
6. Recover password:
7. A user can recover their password in case they forget it.
8. They can do this by accessing the Log in Page and then click on the “Forgot your Password?” link which should redirect the user to another page.
9. In this other page they are asked to enter their username.
10. If the Username exists they are redirected to another page which asks the user to input their answer for their listed security question.
11. If the username does not exist, the user is alerted of this.
12. If the user does not enter their answer correctly, they are told to try again.
13. If the user successfully answers their security question, they are redirected to another page where they must type in a new password and confirm their password, after that they are redirected to the homepage with a started session using their new password.
14. Change password:
15. A user can change his password if they desire to do so.
16. To do this they must be logged in and on the homepage.
17. After that they must hover over the settings cog in the upper right corner and click on “Account Settings” which should redirect them to another page.
18. In this page, the user will be viewing three input boxes, one where they have to type in their old password, one to type in their new password, and one to confirm their new password.
19. If the old password is wrong, or the new password does not conform to the listed password requirements, they are alerted of this with a pop up just below the “Save Changes” button.
20. If the password change is successful, a statement indicating so is displayed just below the “Save Changes” button.
21. News:
22. A user can view news posted by AUB targeting their alumnus.
23. Users can access these news by simply accessing their homepage where the news is displayed in the middle.
24. If users click on any of the articles, they are redirected to the article’s main page.
25. Events:
26. Users can view events which are hosted by the alumni association of AUB.
27. They can view these events by going to the homepage; events are displayed to the right.
28. Users can click on the “info” button under each event to be directed to another page displaying the full description and details of this event.
29. Profile:
30. Users are given profiles they use to login to the website and access their homepage.
31. User’s profiles are bound to their username which can be used to access the website once they become alumni.
32. Manage Personal Information:
33. Users can change the information which is displayed in their profiles.
34. To change their information, users need to log in to their profiles and then hover over the settings cog in the top right corner and then click on “Personal Information” which will direct them to a new page.
35. In this page, users can change their mobile number, address, occupation, and their “about” information.
36. Once they input this information and click on “Save Changes” they will be alerted if these changes have been successfully changed.
37. Change Security Question and Answer:
38. Users can change their security question which is used to recover their password if they forget their password.
39. To change their question, users must be logged in and hover over the top right settings cog and click on “Account Settings”.
40. They will be directed to a page where they can change their password, users must click on the link “Security Question” to the left of the page.
41. On this page, there are two input boxes, one for the user to enter a new security question and another box to enter their answer to that question.
42. After that users must click on “Save Changes” to change their security question.
43. View Other Profiles:
44. Users can view other users’ profiles.
45. To do so, users must be logged in and on their homepage; to the bottom left corner of this page, users will see a list of other alumni members.
46. If users click on the “View” button under one of the members, they will be sent to a page which displays all of that users’ information.

Non-Functional Requirements:

* Availability: The product can be used always except during service downtime or maintenance.
* Security: The Product forces users to have a good password which will prevent other users from accessing their account.
* Extensible: More Services can be added to the product if work on it is continued after the course ends.