Campus Connect

Introduction –

The aim of this website is to provide students within a campus a platform to share their thoughts and connect with others. The website can also be used by students to post a request for utilities such as books, movies, software, games etc. and other students can see these requests and interact with them.

The website can be of great use to help students connect with each other especially for freshers who can easily ask for advice, utilities etc. easily through the website.

The basic features of the website can be summarized as follows:

- Allow a student to post a message or request on the website.
- To provide the students a means to trade or sell items on this website such as books, software, accessories, etc. by means of a user-friendly interface.
- Sign up and Login feature to allow only verified users to post requests.

Design and Implementation –

The Website makes use of JavaScript and CSS to create an interactive web page along with PHP to retrieve or store any user given data from our SQL based server. It also provides a secure login feature which allows our users to manage their Accounts, post new requests along with confirm any pending requests from fellow students. Its goal is to build a community in which the students can easily trade items and make new friends while doing so.

While designing the website the main problem was selecting a good backend technology to back up the front end and support features like Login/SignUp Session management etc.

Frameworks/Libraries/Modules used :

Frontend:

- HTML, CSS
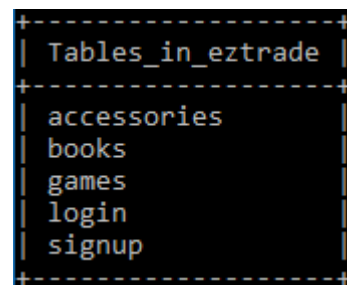- JavaScript
- jQuery
- Bootstrap

Backend:

- php

Database Language:

- MySQL
- PL/SQL (Cursors,Triggers,Procedures)
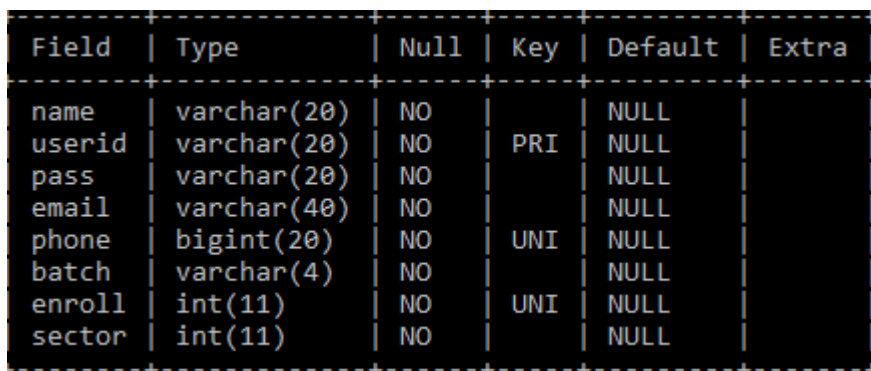
Database Overview →

Database name := eztrade

Tables in eztrade :=

Figure 1 Tables in database

Figure 2 Signup Table

```
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| userid  | varchar(20) | NO   | MUL | NULL    |       |
| pass    | varchar(20) | NO   |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
```

Figure 3 Login Table

```
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| uid     | varchar(20) | NO   | MUL | NULL    |       |
| price   | double      | NO   |     | NULL    |       |
| type    | varchar(20) | NO   |     | NULL    |       |
| cond    | varchar(5)  | NO   |     | NEW     |       |
| brand   | varchar(20) | NO   |     | NULL    |       |
| model   | varchar(50) | NO   |     | NULL    |       |
| phone   | int(11)     | NO   |     | NULL    |       |
| email   | varchar(40) | NO   |     | NULL    |       |
| imgpath | varchar(40) | NO   |     | NULL    |       |
| yop     | int(11)     | NO   |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
```

Figure 4 Accessories Table

```
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| name    | varchar(30) | NO   |     | NULL    |       |
| uid     | varchar(20) | NO   | MUL | NULL    |       |
| author  | varchar(20) | NO   |     | NULL    |       |
| price   | double      | NO   |     | NULL    |       |
| email   | varchar(40) | NO   |     | NULL    |       |
| phone   | int(11)     | NO   |     | NULL    |       |
| cond    | varchar(5)  | NO   |     | NEW     |       |
| type    | varchar(40) | YES  |     | NULL    |       |
| form    | varchar(20) | NO   |     | NULL    |       |
| imgpath | varchar(40) | NO   |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
```

Figure 5 Books Table

Screenshots of website :
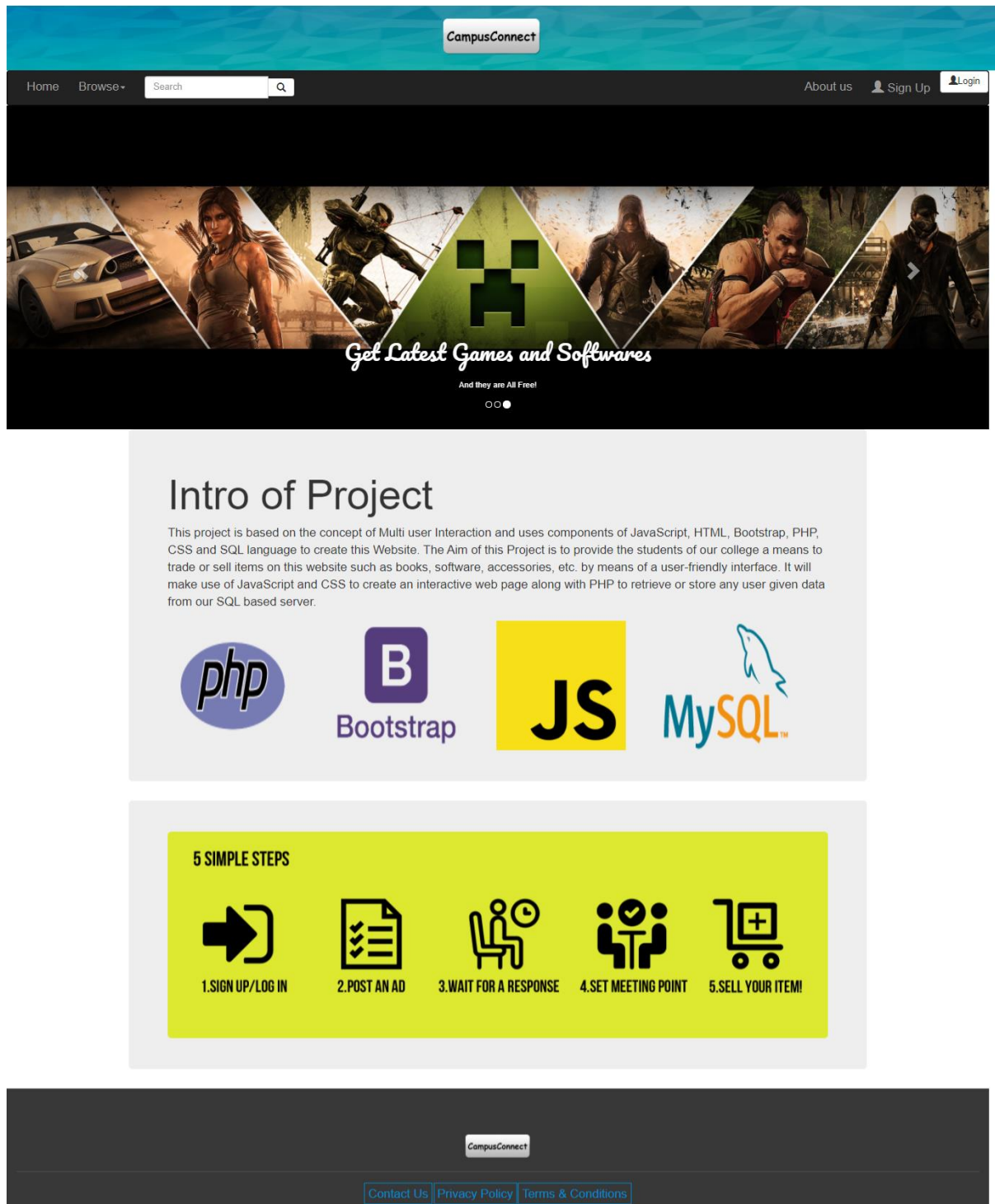
Figure 6 Home Page

Figure 7 Sign Up page

Figure 8 My Dashboard

Select Item

Accessories   🎧
Games   🎮
Software   🌐
Media   📹
Books   📕

Accessories

Type
Earphones

Brand
eg : Sony

Model
eg : MDR-X340

Year Of Purchase
2017

Physical Condition
Excellent

Price
eg : 32000

Mobile Number
eg : 985XXXXXXX

Email id
eg : yachint@gmail.com

Upload Image
Browse...

Figure 9 Post Ad screen

Sort By :
- ☐Brand
- ☐Price
- ☐Condition
- ☐Type

Price Range :
- ○Rs.500 - Rs.1000
- ○Rs.1000 - Rs.2000
- ○Rs.2000 - Rs.3000
- ○Rs.3000 - Rs.4000

Avg. Rating :
- ○4 star and Up
- ○3 star and Up
- ○2 star and Up
- ○1 star and Up

Sony MDR-XB55 Extra-Bass In-Ear Headphones (Black)
by Sony

Condition : New

4.1 ★

3 More Offers (used)

Starting from :

Rs.1199

Buy Now

Motorola Pulse Escape Headphones (Black)
by Motorola

Condition : New

3.8 ★

2 More Offers (used)

Starting from :

Rs.2599

Buy Now

SanDisk Ultra Dual 32GB USB 3.0 OTG Pen Drive
by SanDisk

Condition : New

3.5 ★

4 More Offers (used)

Starting from :

Rs.799

Buy Now

WD Elements 500GB 2.5-inch External Hard Drive (Black)
by WD

Condition : Old

4.7 ★

5 More Offers (used)

Starting from :

Rs.2599

Buy Now

Intex IT-PB11K 11000mAH Power Bank (White)
by Intex

Condition : Old

4.1 ★

5 More Offers (used)

Starting from :

Rs.699

Buy Now

Figure 10 Browse for Accessories etc

Conclusion -

The website allows our users to manage their Accounts, post new requests along with confirm any pending requests from fellow students with a secure login feature. Its goal is to build a community in which the students can easily trade items and make new friends while doing so.

The only shortcoming is that the website needs a dedicated php server and mysql database with tables as described above along with the lite-server to function properly like xampp etc.

Also due to time constraints some of the features lie clicking on the buying button while browsing for items may not function properly which I intend to fix in the future.

References –

- Bootstrap 4 Home Page http://getbootstrap.com/
- Ideation (creative process) https://en.wikipedia.org/wiki/Ideation_(creative_process)
- 10 Essential Social Media Sites for College Students https://blog.schoox.com/10-essential-social-media-sites-for-college-students/
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- How to Connect MySQL Database with PHP Websites https://www.cloudways.com/blog/connect-mysql-with-php/