Student Names : Raja Naseer Ahmed Khan with Waheed Akram

Project Title : Galway Buy and Sell Ads Website.

GitHub : <https://github.com/g00351263/Projecte-I.T-with-Waheed>

Supervisor : Kevin Obrien.

**Contents in Document**

* + 1. **Introduction.**
    2. **System Requirements.**
    3. **Technology Used and Why.**
    4. **Architecture of the solution.**
    5. **Databases**
    6. **Design Methodology**
    7. **Features of the Implementation.**
    8. **Limitations and known bugs.**
    9. **Testing plans.**
    10. **Recommendations for Future Development**
    11. **Conclusion.**
* **Introduction**

A basic website which allow users to upload advertisement for stuff they want to sell. They have to register first to upload an advertisement. Only 1 photo is allowed to add per advertisement max 100mb. Same user can have multiple ads. User can see and delete their ads. forgot password emails are sent by PHP mailer.

* **System Requirements**
* Connection to Internet.
* Any Device with Internet Browser.
* **Technology Used and Why.**
  + H.T.M.L. backbone of all webpages and easy to understand
  + P.H.P. easy to use and understand server-side language
  + C.S.S. easy to use and very dynamic pages output.
  + MySQL. easy to use and understand
  + WAMP64. wdely used open source server
* **Architecture of the Solution**
  + 1. Home Page will display all the ads from MySQL database
       1. Will have Link to all the following pages.
       2. Will also have links to categories of ads pages.
    2. Register Page will allow to register user and send details to MySQL as well there is forgot password link which is using PHP mailer to recover password by emails.
    3. Sell page requires login and will allow user to put and delete ads in database.
    4. Log in page allows user to log in which is verified by php search from database.
    5. About Us and Contact us pages.
* **Databases**

Registration database has 3 tables:

* + 1. resetPassword used for binding reset temporary code to email.
    2. Users stores the registered user information.
    3. Ads stores the image and details of add linked with foreign key to user’s database for retrieval of each users advertisement.
* **Design Methodology**

H.T.M.L. is used to display the pages with C.S.S. and some bootstrap. P.H.P. is used to navigate to pages and connect to database in MySQL.

* **Features of the Implementation**

In browser technology so can be seen on any device which has browser.

Simple technology used for developer to understand.

* **Limitations and Known Bugs…**
  + Some G.U.I. are malfunctioning on smaller devices.
  + Session is not clearing up unless log in new user.
  + Multiple images can’t be loaded as using database to store the images.
* **Testing Plans**
  + Run the website on browser on multiple platforms.
  + Register new user on registration page.
  + Log in user on Log in page once Register.
  + After Logging in upload new ad with photo and delete same on sell page.
  + Check on home page if uploaded Ad is displaying.
  + Check if Category link is displaying only the related category Ads.
  + Navigate to About us page and check developer Information Displaying.
  + Navigate to contact us form and check form is displaying.
* **Recommendations for Future Development**
  + Would be suitable to use Frameworks as doing code of Cross Platform requires lot of effort and code adjustment. Framework choice depends on developers understanding of framework.
* **Conclusions**
  + I would say that experiment of making a website from Basic use of technology is not worth of utilization of our times. As we had to setup this website for different screen sizes to display differently. i.e. a website if developed only for windows might be overlapping or not displaying at all on phones or smaller devices.
  + Recommendations are Angular JS, React, Xamarin Cross Platform or any new technology will be very handy to build this kind of website in 1 go.