Homework 1
Interactive Web Application Requirements and Design
Due 08:00AM – Friday March 26th, 2021.

Your web application should provide a service for an individual, group, or a business. The web application should provide a service that does not yet exist, or an improved design and implementation of an extension of an existing service. The web application can improve the visibility of the stakeholder, enable better communication among the individuals in the stakeholder group, improve the recruitment of people and funds to the stakeholder group, or provide a service to individuals learning a subject.

Choose **one** of the following for your project:

1. Develop/Extend a web application for an individual that you know to promote their professional or community projects.
2. Develop/Extend a web application for a community group to encourage communication about activities and projects.
3. Develop/Extend a web application for a student group at AYBU that encourages participation and communication such as International Student Club or HCI Interact or Without Barriers Club (https://aybu.edu.tr/studentaffairs/custom_page-335-student-clubs.html).
4. Develop an online game for learning about the basics of javascript, CSS or any other scripting language.

Once you have selected one on the four choices, think about the proposed content and interaction for the application.

Make a list of the categories and specific examples of your users: users are the people that will look at and interact with your web application

Identify the categories of content that you will have on the web site, such as people, events, information about the organization, goal of the organization, gallery of photos.
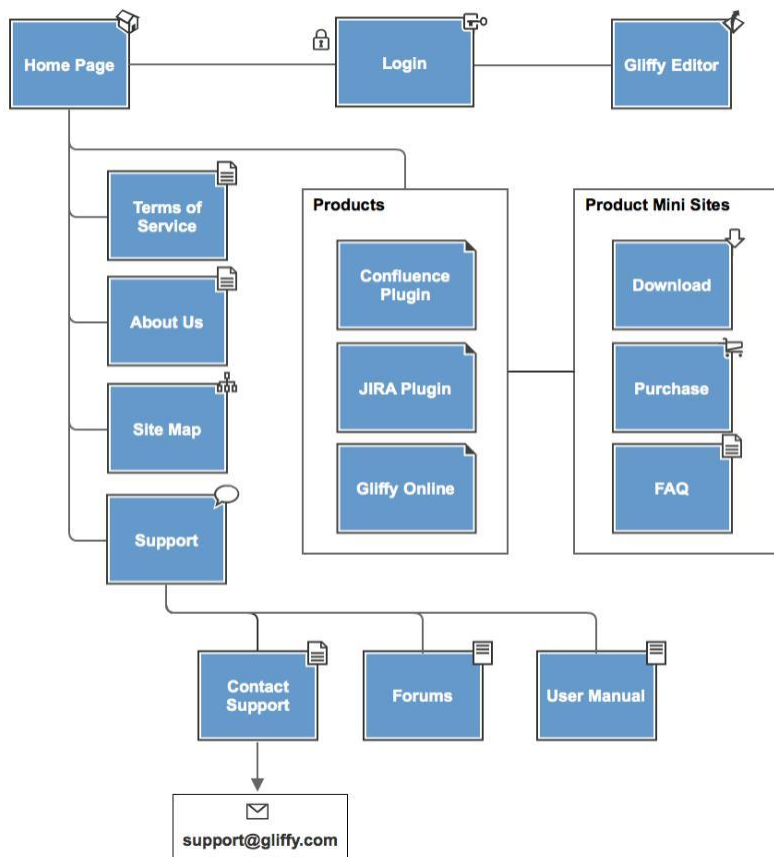
Identify the kind of interactivity that you plan to implement. This can be described by including links to existing web pages that you have found that have interactivity that is inspiring for your web application. At a minimum you will need to include a gallery or interactive images and you will need to include forms for collecting information.

Requirements and Design Document:

Technical writing is required with no grammatical and/or spelling errors.

•   Project overview: Describe your application. Include what it is supposed to do and who is your target market. Refer to the requirements and address each point. Technical writing is required

•   Site Map: Before you start coding, you need to understand what pages you will need to create and how you will navigate between them. The following is an example of a site map. Please produce this for your application: (Visio, http://www.gliffy.com/uses/web- site-map-software/, http://slickplan.com/ or similar can be used for this). Your website must have a minimum of 6 pages:

- Home Page - This page will be the first page the user sees when visiting your web site. This page should be named index.html
- Navigation Bar – Navigation must be consistent across the website
- Header and Footer sections that are consistent across the web site
- AJAX functionality
- jQuery-UI widget and other plugins

- Page Design: For **each** page listed in your site map, provide *at least* the following requirements:
  - The name of the page
  - Purpose of the page
  - What data (fields) will be presented on the page based on what logic?
  - What validations (if any) will exist on page? (of data fields above)
  - What buttons or hyperlinks will exist, and what actions will be taken when clicked (data saved, navigate to other page, search based on value, etc.)
  - Special notes regarding page (if any)

If you choose to do so, you can accompany each page with a mock up or prototype that shows how the page will be laid out and even how it might behave. Some of these, like Axure, can even be used to generate your requirements/design content. You can use the following for this:

  - http://www.justinmind.com/
  - http://www.axure.com/
  - http://balsamiq.com/products/mockups/

- **Dynamic Functionality**: Describe the dynamic functionality you will implement using JavaScript: this is a description of the interactivity, for example, forms, calculators, interactive images. Provide URLs of web pages that you like and will be trying to implement for your application.