

COM S/SE 319: Construction of User Interfaces
Spring 2023

Phase 2 of the Final Project

[Total Points: 100]

Assignment Due: Saturday, **May 6th, 2023**, 11:59PM

1. Overview

Phase 2 of the Final Project has the purpose of putting into practice everything learned in class until Week 15. The Final Project is the result of learning and deploying the most modern technologies used in the Industry of Web development. In our class SE/ComS 319 we selected the most popular and modern technologies used by the most recognized companies in the market.

The information contained on the website is the preference of the students.

Although we set the minimum requirements of functionality and used technologies, the Final Project is a final product that solves a problematic of the preferences of each student.

The Final Project Phase 2 is a Single-page website of perfect functionality and a very good aesthetic appearance. That is, the software must not fail, it must solve a fictitious or real situation or problem in a web environment and shows computer web pages with a professional appearance. Professional appearance can be interpreted from different points of view according to different students. For example, the appearance and design of a financial application does not necessarily reflect the seriousness and formality of a banking institution, but it will be penalized if the appearance and design reflect very little effort and work.

Phase 2 of the Final Project will contain the different technologies covered along the course until Week 15 ending on Friday May 5th, 2023 (more details in section Requirements).

The addition of more advanced technologies used to solve technical problems won't be penalized. However, if the inclusion of more advanced technologies interferes with the review of the project at the time it is reviewed by the TA, the TA can decide whether to penalize the project or not.

Phase 2 of Final Project has a value of 5% (5 points) of the final grade.

It is not required to have completed documentation, video, and presentation for Phase 2. It is only required to have completed the Software component.

For the Final Project you will have a pair of days to add Documentation, Video, and a Demo Presentation of the product.

2.- Functionality

The website is made up of different web views using the well-known concept of Single-web page. That is, the web site is developed in a main file using Javascript and multiple modules as necessary, which are imported to integrate multiple functionalities. Once committed to this requirement, is permitted to add more HTML files to solve the functionality or problems.

The user will navigate from one view to another without any difficulty or problem. The application will provide the appropriate navigation using the mechanisms or technologies shown in class, such as show/hide views.

It is expected to have a good aesthetic appearance in the web pages. However, it is not specificized how good or bad is a good or bad design. We will give freedom to the creativity and skill of the students in this regard. However as mentioned in the Overview section, the excess of simplicity, the lack of effort to improve the appearance, will be penalized at the reviewer's discretion.

3.- Requirements

Phase 2 requirements are only composed of Software as follows:

- The minimum software technologies that the project must include are:
 - HTML
 - CSS
 - Javascript (including DOM)
 - REACT
 - NodeJS
 - Express
 - Database unstructured such as Mongo any version or structured such as SQL any version.
- And the optional software technologies reviewed in class which can be included are :
 - Bootstrap
 - Tailwind
 - JSON
- The application MUST include the next :
 - Use of hooks: useState and/or useEffect
 - Fetch or Axios to access external files and/or databases.
 - Use of sync/await where necessary.
 - It must include CRUM request methods:
 - Post : to create a new product or service in the database
 - Get : to consult / show all or any item in particular from the database
 - Put : to update any information in the database
 - Delete : to remove a specific product or service from the database
 - It is permitted to have JSON data in external files which is not the main data of products and/or services.

- To be clearer : Not permitted to have the main data of the products or services in any JSON external file or as a constant or variable in Javascript files.
 - The main data from products and/or services must be in a database.
 - The database in Mongo has JSON format, that is permitted.
- The App must contain at least 2 views related to your products or services.
- The App must contain one view with the information of the students who developed the web site.
 - Name of the course: SE/ComS319 Construction of User Interfaces, Spring 2023
 - Date
 - Complete name of students and ISU email
 - Complete name of professor and email : Dr. Abraham N. Aldaco Gastelum
 - This page does not require images; however, team member photos will be appreciated.
- The App must contain one view with the information of the Company if the project was developed for a real Company or Institution.

Structure of files and folders :

- There will be a folder **teamXX_final** that contains all the software application.
- All REACT development must be inside this folder.
- All NODEJS + Express development must be inside this folder.
- All Database files must be inside this folder.
- All image files, text files, JSON files must be inside this folder.
- All REACT and NodeJS configuration files must be inside this folder.

***Please take your precautions to finish the project on time. The following week after the due date is Week16 Exam period, then will be impossible to extend the submission date.**

4.- What to submit

- Include all the files in teamXX_final except the MODULES folders.
- Construct a ZIP file.

*Where XX in teamXX_final is your team number. That will allow the TA and instructor to review and assign the same grade to the team members.

*It is required submit ONLY ONE compressed file (.zip) per Team. Team members are grouped in Canvas.

2. The Rubric to grade this assignment is as follows:

This Assignment has a total value of 100 points.

There is no late submission deduction this time.

If the work is submitted late has a penalty of 100%

- Is Phase2 developed using REACT ? _____ / 20
- Is Phase2 developed using Nodejs and Express ? _____ / 20
- Is Phase2 developed using Databases ? _____ / 20
- Is Phase2 implementing CRUM Post, Get, Put, Delete ? _____ / 20
- Is Phase2 implementing Hooks, Fetch/Axios ? _____ / 10
- Is Phase2 a Single-web page application ? _____ / 10

Total points : 100