CSEE5590/490: Web/Mobile Programming Report for Lab programming-I



Prepared By

Praneeth Thota-15

Tummanapalli Samhitha-18

Pillala NavyaRamyaSirisha-13

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Introduction

This report is about the Lab 1 which is to create a web pages including all the basic topics like HTML, CSS, JavaScript, Angular JS, Node JS etc..,

Objective:

The main Objective for this Lab is to perform three tasks and those tasks are as described below

- 1. To create a MOOC web application which consists of various web pages with the below details.
 - i. User Details like logged in User or guest user.
 - ii. Ordered Details like recent Orders, Old Orders.
 - iii. Product Details.
- 2. To build a Snake game using Angular JS using the keycodes for the direction changing and to print the best score of the games played.
- 3. To Create an application which will display the description about the notable entities(e.g. people, places, and things) that match certain criteria

Approaches/Methods:

The approaches or tools that are used are

- HTML
- CSS
- JavaScript
- Angular JS
- NodeJS
- WebStorm

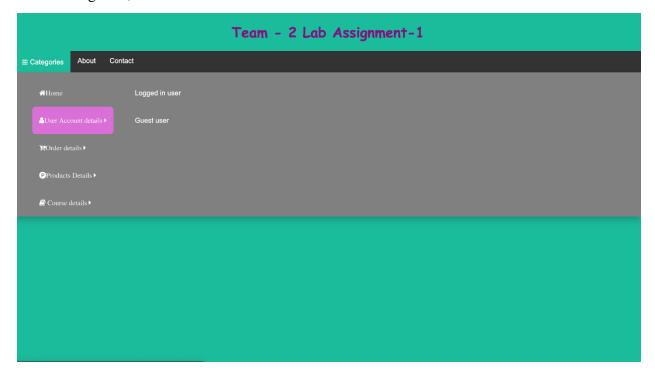
Workflow:

The Workflow is to explain the code snippets and Output images for all the three tasks

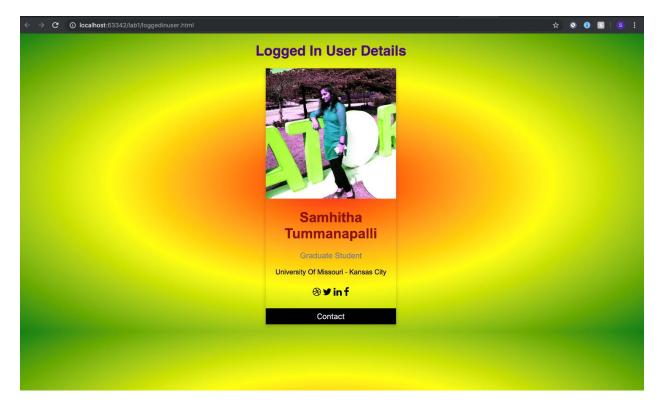
TASK 1

Task 1 is about the MOOC web application which have multiple web pages.

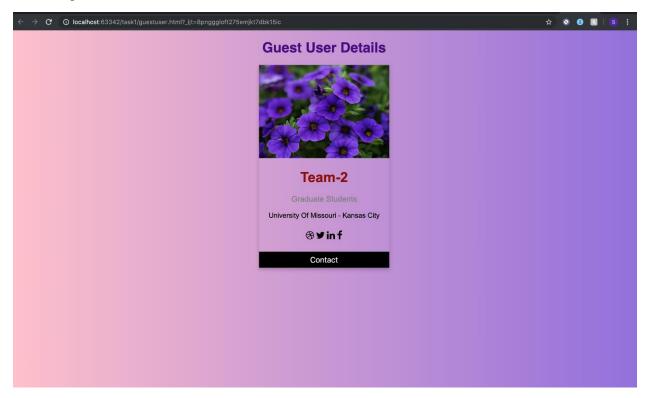
This Output image is the Home page which contains User Details, Order Details, Product Details, Course Details inside Categories, About and Contact



This Output image is to display the Logged In User details.



This image is to show the Guest User details.



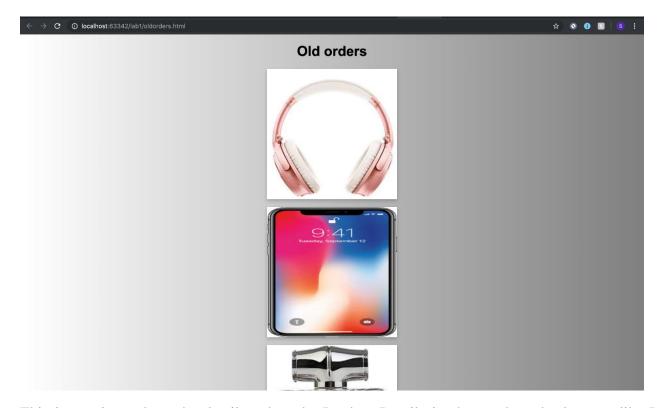
This image is to show that whether the order details should be the Older details or the recent ones when the Order Details is chosen.



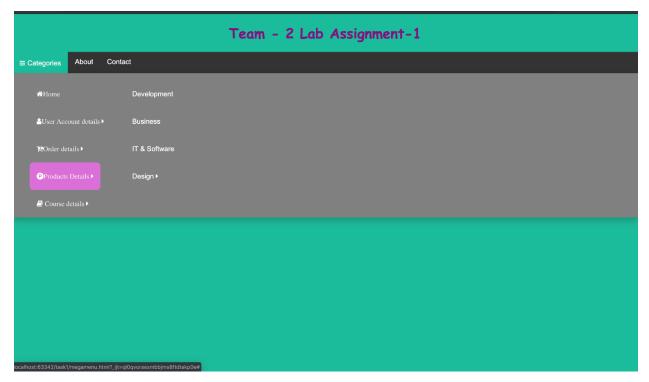
This image is to display about the webpage which shows the Recent Orders when the Recent Orders is chosen.



This image is to display the Older Orders.



This image is to show the details, when the Product Details is chosen the sub elements like Development, Business, IT& Software and Design will be displayed.



When the Development is chosen it will redirect us to a separate web page and the image below will display the details about the Development page.



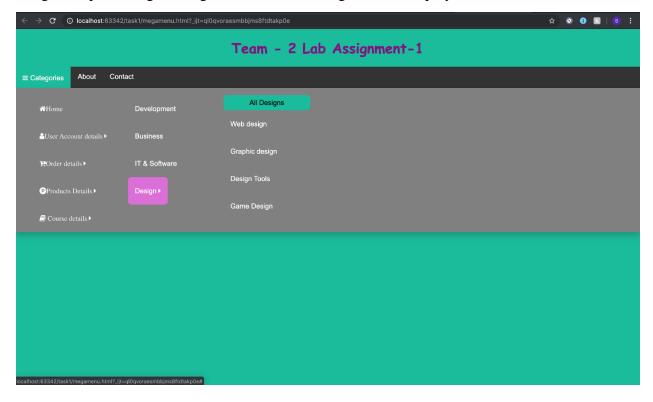
This image is to explain the details about the Business page that will appear when the Business is chosen.



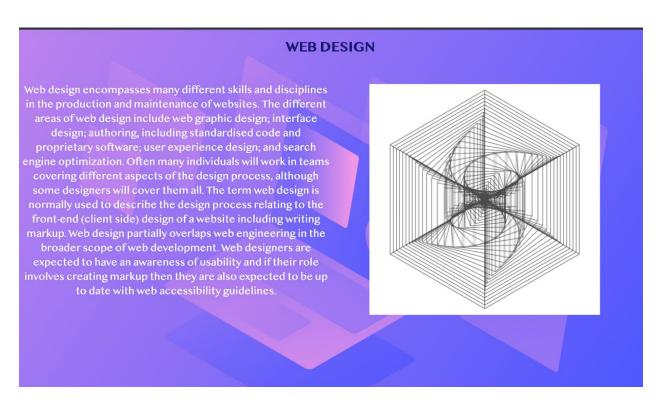
This image is to display the details about the IT & Software page when we click on the IT & Software



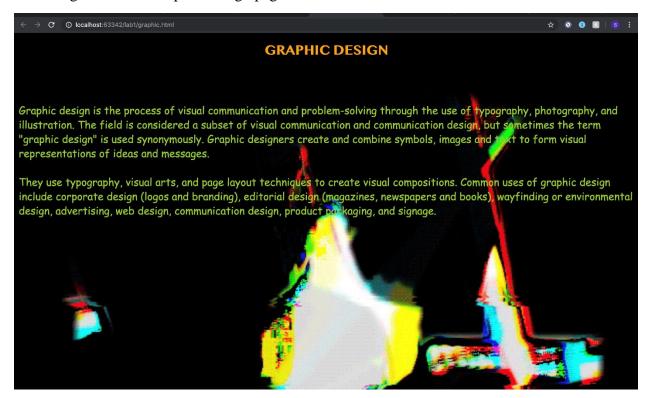
This image is to show the Design element. When the Design element is chosen then all the designs like web design, Graphic design, Designs Tools, Game design will be displayed.



This image is for the Web Design page.



This image is for the Graphic Design page.



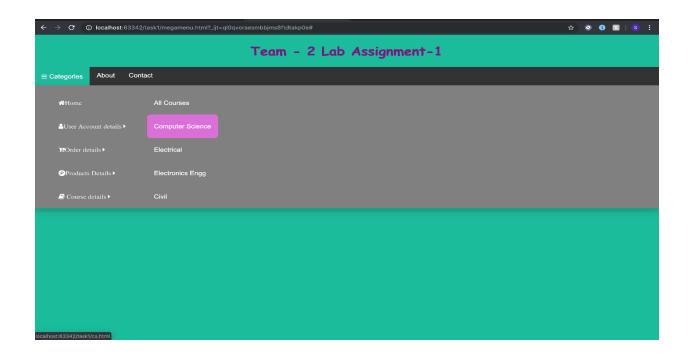
This image is to explain the Design tools page.



This image is to show the Game Design Page.



This image is to depict the details about the Course details element which displays all the courses like computer Science, Civil, Electrical and Electronics courses.











Subjects offered





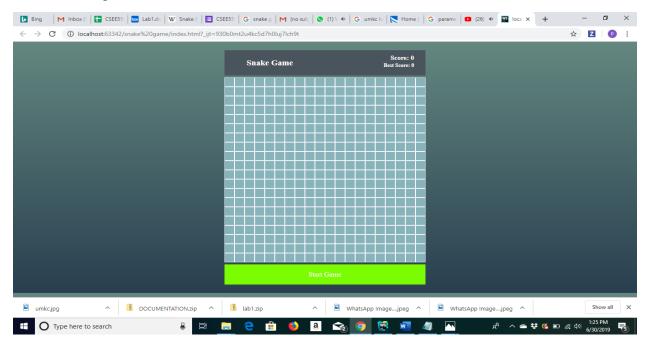


Subjects offered		
CS 4120 - Advanced Applications Programming in Java		
CS 4130 - Server Side Web Programming		
CS 4510 - Introduction to Distributed Systems		
CS 4600 - Database Theory and Applications		
CS 4610 - Introduction to Cloud Computing		
CS 4630 - Data Mining		
CS 4700 - Artificial Intelligence		
CS 4710 - Machine Learning		
CS 4810 - Computer Graphics		
CS 5000 - Special Topics in Computer Science		
Faculty details		

TASK 2

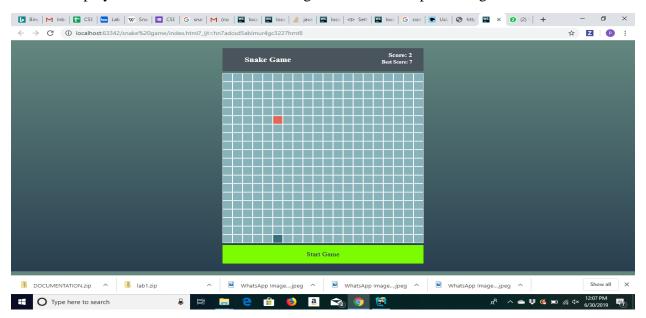
Task 2 is to develop a Snake game using HTML, CSS, Angular JS.

This image is to display the snake game page before starting the game. It displays the Score and the Best Score at the right corner.

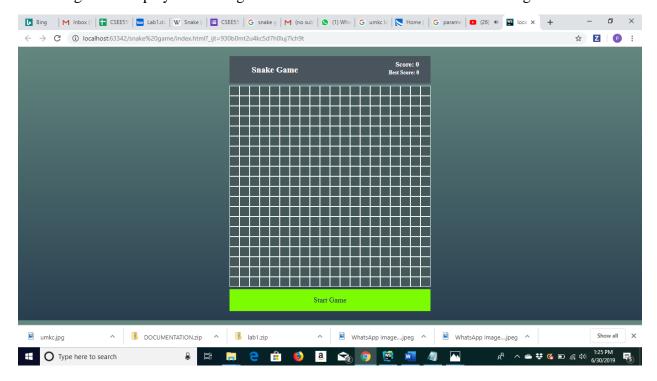


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This image is to display the score and the highest score. Here the highest score for the previous game is 7 and hence it displayed the current score and the highest score of the previous game.



This image is to display when the game is over the color of the board will change.



This is the code snippet for the game using angular JS, we have created a module named Snake and the buttons for directions

```
angular.module('Snake', [])
.controller('snakeCtrl', function($scope, $timeout, $window) {
    const BOARD_SIZE = 20;

    const DIRECTIONS = {
        LEFT: 37,
        UP: 38,
        RIGHT: 39,
        DOWN: 40
    };
```

This image is for updating when the snake eats the fruit it calls the new head and if there is a board collision gameover() will be called.

```
function update() {
   const newHead = getNewHead();

   if (boardCollision(newHead) || selfCollision(newHead)) {
      return gameOver();
   } else if (fruitCollision(newHead)) {
      eatFruit();
   }
```

This image is to add an Event Listener which is to show some limitations for the directions

```
$window.addEventListener("keyup", function(e) {
    if (e.keyCode === DIRECTIONS.LEFT && snake.direction !== DIRECTIONS.RIGHT) {
        tempDirection = DIRECTIONS.LEFT;
    } else if (e.keyCode === DIRECTIONS.UP && snake.direction !== DIRECTIONS.DOWN) {
        tempDirection = DIRECTIONS.RIGHT && snake.direction !== DIRECTIONS.LEFT) {
        tempDirection = DIRECTIONS.RIGHT;
    } else if (e.keyCode === DIRECTIONS.DOWN && snake.direction !== DIRECTIONS.UP) {
        tempDirection = DIRECTIONS.DOWN;
    }
});
```

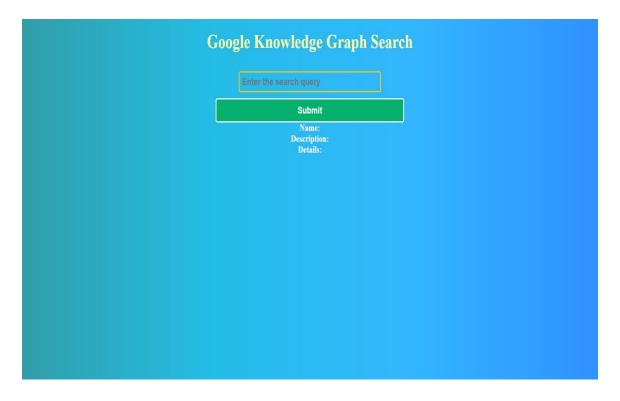
TASK 3

Aim: To Create a Web Application using Google Knowledge Graph API.

Technologies used: Angular JS, HTML,CSS.

Approach:

1. I have generated an api key for google knowledge Graph using Credentials.



2. Created A Web Application that takes any key word as an Input and generates the Output As Follows.



Features:

- 1. Google Knowledge Graph serves as a Mini Search Engine.
- 2. It is an internal knowledge base of linked data that draws a wide range of sources for its data. For Example: If we consider the query as follows https://kgsearch.googleapis.com/v1/entities:search?query=virat+kohli&key=AlzaSyBrlutnkp8J86H2F86mvm2fW7lqu63R6Xw

This is the resultant output of the query. It shows many notable entities that all linked to the query like Name, type, Image, description etc.,

Evaluation & Discussion:

We enclose our YouTube video link of our tasks that we performed successfully.

https://www.youtube.com/watch?v=Z_Ueo6jdEag&feature=youtu.be

Conclusion:

Hereby, It is to conclude that all the three tasks are performed successfully and we gained handful of knowledge on the basic topics of the web programming of how to create a web pages using many features like responsive web pages and attractive UI and API calling.

References:

- https://kgsearch.googleapis.com/v1/entities:search?query=taylor+swift&key=API_KEY&limit=1&indent=True
- https://developers.google.com/knowledge-graph/
- https://www.w3schools.com/

Contribution:

Task1- Samhitha Tummanapalli (15)

Task2- Praneeth (18)

Task3-Navya Pillala (13)