



ADDIS ABABA UNIVERSITY

ADDIS ABABA INSTITUTE OF TECHNOLOGY

CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC  
COMPUTING

**Assignment and Project Guideline for Fundamental of Web  
Development**

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# Introduction

At the end of the major topics students are expected to take part in course assignments and based mini projects. Consequently, all students are required to complete various assignments and projects which are provided by the instructor. The projects involve significant software development techniques and principles using web technologies.

To this end, students will demonstrate knowledge right from project planning to implementation both orally and in writing. Therefore, the purpose of this guide book is to describe the rules, procedures and guidelines that should be strictly followed by **second year** students in order to plan and execute a productive and successful Course Assignments and Project. This guide is meant as a reference to all participants namely: the students, and Instructors.

This document is divided into six major sections. Section two describes the objective of this document, section three and four describe grouping, title submission and approval process, section five describes assignment and project requirements in detail .

## Objective

This guide book is aimed to:

- Help students to have a good insight on the rules and procedures that should be followed in this course based assignments and project from planning, to designing and implementing.
- Inform students about the evaluation and grading regulations

# Grouping

1. Most Assignments and Project are individual
2. There will be Group Work for the Last Project II

## Title Selection and Approval

Each Individual is supposed to come up with a Title on both cases of assignment and project. The title must be short and precise.

Title Submission Format : All Titles and Completed Projects are submitted via Google Form Provided on this document [Each has its own form]

Topics that will be Completed :

<b>Name</b>	<b>Title</b>	<b>Class Type [Class/Lab/Project]</b>
Assignment I	<b>Lecture One Based Assignment</b>	Class
Assignment II	<b>Completing the CV Website</b>	Lab Exercise
Assignment III	<b>Developing a Personal Web Based on Base Link</b>	Lab Assignment
Assignment IV	<b>Lecture Three Based Assignment</b>	Lecture and Lab Assignment
?		
?		

This Will Be Filled Up On Time

# Assignment I [Lecture One Based Assignment ]

**Topic :** Answering Question Mentioned on the **Back of the Lecture One Note**

## Description

This is an individual assignment where a student will answer questions specified at the end of the lecture note .

Submission Form : [Link](#)

**Deadline for Submission :** **Friday March 6, 2020**

**Presentation[Optional]** : If the instructor find inconvenience in the work


## Note

- Any reason for not submitting will result in loss of the assignment
- Submission of incorrect information will lead to lose of Entire Mark Especially the Git URL

## Evaluation Criteria

Work Quality	Addressing the Questions	Git Submission	Deadline
(5%)	(6%)	(5%)	(1%)

**Work Quality** : This is to determine how well the student has used an appropriate documentation standards Req below has one Points]

1. Having a Cover Page , With Aggregate Title [**One Title the Represent all**]
2. Having Appropriate Page Number and Table of Contents
3. Having Good Fonts for body , title , subtitle
4. Making the document body alignment **Justify** (  )
5. Having a **Reference Page**(last page) the list the **resources** used appropriately [web URL , pdf ]

**Addressing Question** : This is to determine how well the student has used appropriate explanations of the answers for the questions e. [Each Req below has two Points]

1. Giving the appropriate answer with good explanation
2. Having a well thought answer especially on the Judgements
3. Using appropriate words and ideas

**Git Usage and History** : TThis is to determine how well the student has used a git locally , git push and pull on github repo. . [Each Req below has 2.5 pt]

1. The git **commit** should start from **Feb 29, 2019** [**This is mandatory**] (*Locally*)
2. The **overall commit** should exceed **4**

**Note** : **Make sure you maintain(perform change and commit) the docx file in your local repo and only one push to global repo is enough**

**Deadline** : This is to determine how much the student has taken into consideration the submission on time.

# Assignment II [Lab Exercise ]

**Topic :** Finishing the exercise on Lab I

## Description

This is an individual assignment where a student will perform a demonstration on Lab I by adding some additional features that are left as exercise.

Submission : On Lab Time

**Deadline for Submission :** **Next Week Lab**

Section	Date of Display
Section 1	March 12 , 2020
Section 2	March 10 , 2020
Section 3 (IT)	March 11 , 2020

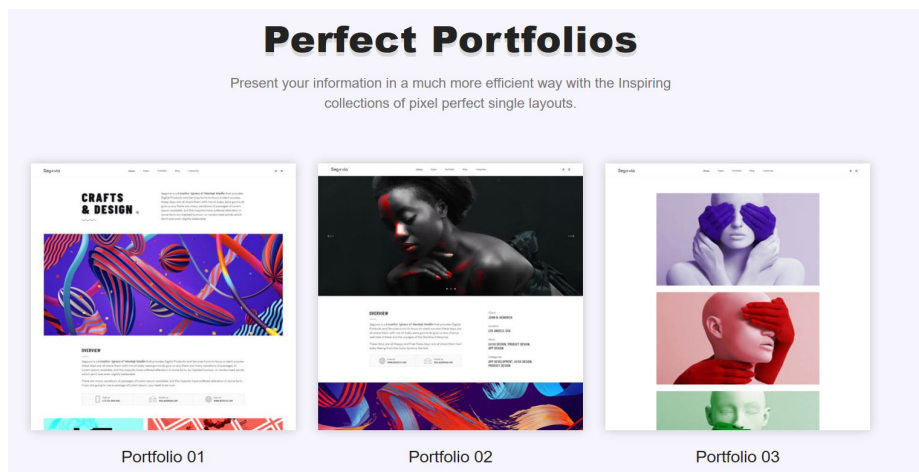
**Presentation :** On Lab Time based on your section

## Note

- Any reason for not demo on the lab time will result in loss of the assignment
- You must have attended Lab I [HTML], attendance will be reviewed

## Questions [For Remainder]

1. Add icon on the head part using **link** tag inside the **head tag** : [Link](#)
2. Update the contact form to be displayed inside a table where each form take a new row [and **Label : Form** Element with two cells in a row]
3. Add more [html5 input elements](#) to the contact page
4. Use the [pattern attribute to validate](#) first and last name name , password
5. Add Gallery page [Update the navigation on the top to have **Gallery**]
  - a. Three images in a row
  - b. Min of 3 rows [You can use category to show what the images are about at the top of each row ]
  - c. use hr, figure with caption , and table [with table attributes to make it good looking]



6. [Embed Map](#) on the contact page



### Evaluation Criteria

Addressing the Questions	Git Submission and Hosting
(6%)	(6%)

**Addressing Question** : This is to determine how well the student has made appropriate attempts to do the exercise. [Each Req below has 2 pt

1. Using an icon that is related to the website
2. Using images that have good quality [[Link1](#) , [Link 2](#) ]
3. Putting the Embedded map and Form Side by Side [you can use table to achieve this ..or any other techniques ]

**Git Submission and Hosting** : This is to determine how well the student has used a git locally , git push and pull on github repo. [Each Req below has 2 pt]

1. Perform a minimum of 4 **commit** (locally)
2. Pushing to the Github repo you have created for the lab [MyCv] //Naming is not a big deal
3. Hosting it with Github pages

**Note : you are free to make some layout changes !!!**

# Assignment III [Lab Assignment ]

**Topic :** Building a New Personal website based on given links

## Description

This is an individual assignment where a student will develop a **personal website of his/her own based on base links that are provided** . The student is expected to show the maximum effort to emulate the website by using only HTML. It is not ideal not to use attributes and tags for making a good appearance but the following tags and attributes are not allowed : **<font> tag , style attribute.**

Submission Form : [Link](#)

**Deadline for Submission : Sunday March 15, 2020 till 5:00LT[In the Morning]**

**Presentation[Optional] :** If the instructor find inconvenience in the work

**Base Link : [Link](#) [No Need to Submit just view your choice from the link]**

**Info :** You are supposed to choose one of the links as a base and try your best to emulate the web reference you are using . You are expected to achieve at least 85% similarity.

**Choose what you think of Hardest One to achieve visual similarity only with HTML  
Since you will learn a lot and will be appreciated by the instructor !!!!!!!!!!!**

## Note

- Any reason for not submitting will result in loss of the assignment
- Submission of incorrect information will lead to lose of Entire Mark Especially the URL

## Evaluation Criteria

Work Quality	Similarity and Improvement	Git Submission and Hosting	Deadline
(8%)	(9%)	(6%)	(1%)

**Work Quality** : This is to determine how well the student has used appropriate tags and attributes to achieve the desired website. Req below has 2 pt]

1. Appropriate usage of tables and tables attributes
2. Appropriate usage of Tags with appropriate attributes
3. Using appropriate Images in the contents and icon
4. Appropriate folder structure and folder/file naming

**Similarity** : This is to determine how well the student has used appropriate techniques to achieve similarity . [Each Req below has 3 pt]

1. Making a similarity of **>=85%**
2. Making the website to reflect your own status
  - a. You only take the structure but the content is yours
  - b. Changing some links to your own domain
    - i. E.g First Link : you can change the 'selected publication' navigation to something else that reflects you
3. [even though the link you choose does not have]Adding contact page with various form elements with most input attributes : [Link](#)

**Git Submission and Hosting** : This is to determine how well the student has used a git locally , git push and pull on github repo. . [Each Req below has 2 pt]

1. Perform a minimum of 15 **commit** (locally) [**Only for Major changes**]
  - a. **Note** : The Commit should be dispersed on different days not all commit in one day [**Especially not in the last day of submission**]
2. Pushing to the Github repo with a name **MyPersonalWeb** //changing the name is allowed
3. Hosing it with Glthub pages

**Deadline** : This is to determine how much the student has taken into consideration the submission on time.

## Assignment IV [Lecture Three Based Assignment ]

**Topic** : Working on Questions based on the concepts learned **and** Answering Questions Mentioned on the **Back of the Lecture three Note.**

### Description

This is an individual assignment where a student will answer questions specified at the end of the lecture note besides perform a demonstration on one some topics.

**Submission Form** : [Link](#)

**Note** : This form will be used for both Assignment IV and V, so you are supposed to submit once you finish both . Only Single submission is allowed.

**Deadline for Submission** : **Saturday March 21, 2020 at 5:00 Morning[Local Time]**

**Presentation[Optional]** : If the instructor find inconvenience in the work

### Note

- Any reason for not submitting will result in loss of the assignment
- Submission of incorrect information will lead to lose of Entire Mark Especially the Git URL

## **Questions [For Remainder]**

1. Perform the Styles on the following file :
  - a. [Link](#)
2. Create this tic tac toe Board with Border and **Margin property***[to put it in the center]* \_:  
[Link](#)
3. Create Flags of Various Countries with the box model concept and position property [at least 12]
4. Does it matter to use relative size(% ,em ,rem) one styling the size of an element so that the element is responsive ? Why ? [write your argument]
  - a. Hint : consider the browsers capability of providing *zoom feature*
5. We said 16px is default browser width so what does it mean when we say 200px ? How does the browser interpret that ?
6. Explain in detail(*in technical terms*) the specific changes in css3

Note the Submission will be with the personal website not in paper. In order to submit, use the following steps .

- **For Question 1 , 2 and 3** : Put it under the **myworks.html** on root directory with the following structure [Make sure you have the css applied]

Add Navigations for **My Works** as part of your **top navigation**

Put Links for each question on the body of mywork.html with nice format with **target = ”\_blank”**

Each question should be on question#.html [# (1-3)]

You can apply general css on the question#.html files

**Note :** You are free to make some layout changes as long as the questions are answered!!!

- **For Question 4 , 5 and 6** : Put it under the blog.html[*which you work on lab 2*] with the following structure [Make sure you have the css applied]

**Title :** Choose your Own suitable Title

**Article :**The answer in a nice format

**Date :**The day you posted the answer

## Evaluation Criteria

Performing the Demo	Addressing the Questions	Git Submission and Hosting	Deadline
(30%)	(9%)	(6%)	(1%)

**Performing the Demo[Q 1 -3]** : This is to determine how well the student has used appropriate techniques to demonstrate the css questions. [[Each Req below has ten Points](#) ]

1. Using appropriate property and **property value** for css styles that are asked on question 1
2. Using appropriate property and **property value** for css styles that render the required output on question 2 and 3
3. Making the items[**Q 1,2,3**] accessible of the demo with one page called **My Works** from top navigation [*Check the instruction on the top for more*]

**Addressing Question [Q 4 -6]** : This is to determine how well the student has used appropriate explanations of the answers for the questions. [[Each Req below has three Points](#)]

1. Giving the well thought answer with good explanation [on the blog]
2. Using correct spelling and grammar on the blog post
3. Incorporate outgoing reference links in the blog post that can be used as supportive for your arguments in a nice way

**Ref Links to Use :** [Link 1](#) , [Link 2](#) , [Link 3](#) , [Link 4](#)

**Git Submission and Hosting** : This is to determine how well the student has used a git locally , git push and pull on github repo. . [[Each Req below has 2 pt](#)]

1. Perform a minimum of 6 **commit** (locally) [**Only for Major changes**]
  - a. **Note :** The Commit should be dispersed on different days not all commit in one day [**Especially not in the last day of submission**]
2. Pushing to the Github repo you created earlier
3. Hosing it with Glthub pages

**Deadline :** This is to determine how much the student has taken into consideration the submission on time.

## Assignment V [Lab Exercise and Assignment ]

**Topic :** Finishing the exercise on Lab II

### Description

This is an individual assignment where a student will perform a demonstration on Lab II by adding some additional features that are left as exercise.

**Submission Form :** [Link](#)

**Note :** This form will be used for both Assignment IV and V, so you are supposed to submit once you finish both . Only Single submission is allowed.

**Deadline for Submission :** **Saturday March 21, 2020 at 5:00 Morning[Local Time]**

**Presentation :** On Lab Time

Section	Date of Display
<b>Performing an Update and The Image Gallery</b>	
Section 1	March 19 , 2020
Section 2	March 17 , 2020
Section 3 (IT)	March 18 , 2020
<b>Flexbox and Media Queries</b>	
Section 1	March 26 , 2020



Section 2	March 24 , 2020
Section 3 (IT)	March 25 , 2020

### Note

- Any reason for not demo on the lab time will result in loss of the assignment
- You must have attended Lab II [CSS], attendance will be reviewed
- Any reason for not submitting will result in loss of the assignment
- Submission of incorrect information will lead to lose of Entire Mark Especially the Git URL

### Note on Deadline and Presentation [If you are Confused of the Dates]

The deadline for submission on **Google Form** is March 21 , which is along with assignment IV, but the presentation for the second part of this assignment [**Q 3**] is on lab time from March [24 -26] . Make sure you submit **both assignment IV and V on March 21 with the same link provided once.**

The Other Thing :

**You are free to make More layout changes !!!**

## Questions [For Remainder]

### 1. Performing an Update

- Making update on index and contact (**for you to do**)
  - Perform an update on the remaining part of the contact.html : the form using box model
  - Replace the hr with border bottom : border-bottom [update all pages]
  - Update the form layout with : relative position , margin-bottom , width and height[only for the submit] , try to use attribute selector
  - Perform an update on the index.html Using box model

### 2. **Image Gallery:** Re-Develop the image gallery with 3\*3[**three images in a row and with three rows**] with the following steps

- Create the file gallery.html
- The CSS Rules
  - **One Text**
    - Create a heading(h3) “Yout Name / Gallery” with all caps [This must be done by css not the text inside the html]
    - Making use of appropriate font metrics on the body[**size, style, family**]
    - Use the width of the text to be relative to root element
    - bottom border and having a good bottom padding
  - **On The Image [**You Must Choose Good Image**]**
    - Use the flot for making the images flot one after the other with no gap
    - Use the width property with % to divide equal for three image on one row [30%]
    - Apply margin property to share the remaining 10% width equally by the images [10/6 %]
    - Make sure the images does not inherit style from the body

### 3. **Flexible Layout :** On the CV App you started , demonstrate the following concepts by identifying the necessary areas

- Try to follow the steps
- Read the concepts of Flexible Box Layout , and Media Queries that are used for creating a responsive layout
  - Links for Flex : [Link 1](#), [Link 2](#) , Links for Media QUeries : [Link 1](#) , [Link 2](#)
- Try to figure out how you can integrate this concepts in the cv application we have been working so far
  - **Hint :** On the navigation , body of the text

- Demonstrate the usage by applying on specific areas you have chosen

### Evaluation Criteria

Addressing the Questions	Git Submission and Hosting	Deadline
(6%)	(6%)	(1%)

**Addressing Question** : This is to determine how well the student has made appropriate attempts to do the exercise. [Each Req below has 4 pt ]

1. Applying the appropriate techniques mentioned to build the gallery
2. Attempting to apply appropriate stylesheet on the remaining pages [index, contact]
3. Applying media queries and flex box for creating responsive layout

**Git Submission and Hosting** : This is to determine how well the student has used a git locally , git push and pull on github repo. [Each Req below has 2 pt]

1. Perform a minimum of 6 **commit** (locally) [**Only for Major changes**]
  - a. **Note :** The Commit should be dispersed on different days not all commit in one day [**Especially not in the last day of submission**]
2. Pushing to the Github repo you created earlier
3. Hosing it with GItHub pages

**Deadline** : This is to determine how much the student has taken into consideration the submission on time.

**Note : You are free to make more and more layout changes !!!**



## Mail Format for Presentation Announcement to the Instructor (**When only Required by the Instructor**)

**Assessment Name** (will be mentioned when required..)

**To :** fitsum.alemu@aait.edu.et

**Subject :** Will Be Given when Required

**In the Body :**

This is to inform you that I/**we** have submitted and would like to present **Web Project**,

- **Title:** Your Title
- **Group:** Your Name/Your Group Name
- **Section:** Section 1/Section 2/IT/Add
- **Date:** Pick Your Date
- **Time:** Pick Your Time [Local Time]

Waiting for your reply ....

**Note :**

- Only one member of the group should mail [**No Multiple Mail form the same group**]
- The submission should be one day before the presentation
- Mail sent outside this format will not be replied \*\*
- Unless the mail is not replied do not attempt to directly come and present