



# WEB601

What will we doing?

# Intro

This Presentation will be about the WEB601 course. We will be building a dynamic website using ReactJS, Redux, KnexJS, Babel as well as other tools

## Course pre-requisites:

Programming skills

Database and SQL knowledge

HTML and CSS knowledge

```
17 string sInput;  
18 int length, i;  
19 double dInput;  
20 bool again = true;  
21  
22 while (again) {  
23     i = -1;  
24     again = false;  
25     getline(cin, sInput);  
26     stringstream(sInput) >> dInput;  
27     stringstream(sInput) >> length;  
28     if (length < 4) {  
29         again = true;  
30         continue;  
31     } else if (length > 10) {  
32         again = true;  
33         continue;  
34     } while (true < length) {  
35         if (isdigit(sInput[i])) {  
36             continue;  
37         } else if (i % 4 == (length - 4)) {  
38             cout << endl;  
39             continue;  
40         }  
41     }  
42     cout << sInput << endl;  
43     cout << dInput << endl;  
44     cout << length << endl;  
45     cout << "Enter again (y/n): ";  
46     char c;  
47     while (c != 'y' && c != 'n')  
48         c = getche();  
49     if (c == 'n')  
50         again = false;  
51 }
```



# Course Outline

NMIT Moodle / Dashboard / My courses / WEB601-2052 / Home

 Nelson Marlborough Institute of Technology  
Te Whare Wānanga o Te Tai Pōti o Te Wānanga o Aotearoa

WEB601 DYNAMIC WEB TECHNOLOGY, S2-20

Home Forum Assessments Analysis and design for the Web Lessons

## WEB601 Dynamic Web Technology

The modern web paradigm is one in which the user base expects a dynamic and interactive experience, not merely a static brochure type site. The dynamic experience involves a complex interaction between many components in the delivery of such an experience.



## BACHELOR OF INFORMATION TECHNOLOGY GRADUATE DIPLOMA IN INFORMATION SYSTEMS

### WEB601 DYNAMIC WEB TECHNOLOGY

SEMESTER 2, 2020

### COURSE OUTLINE AND ASSIGNMENTS

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### DIGITAL TECHNOLOGIES

G-Block, Nile Street, Nelson

*Whāia te itī kahurangi ki te tuohu koe me he maunga teitei  
(Seek the treasure you value most dearly: if you bow your head, let it be to a lofty mountain)*

# What this course will cover

GitHub, Git, GitBook, GitPages...

Learning JavaScript ES6

Creating Dynamic websites using ReactJS as the wireframe

Server side development with Babel

Working with databases in a web environment





# The outcome

This course will be covered over 3 milestones and a journal entry.

Each milestone will cover different requirements and build on to the next milestone. By the end of the course you should be able to

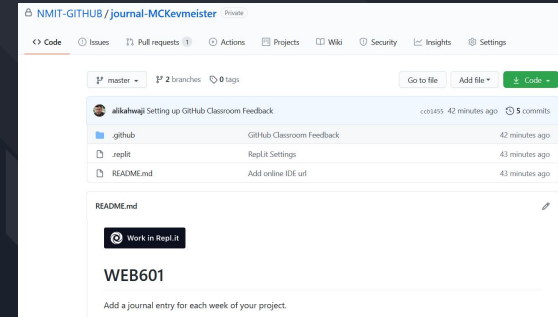
1. Compare and contrast server side environments
2. Create server side dynamically generated web pages.

Assessment requirements for this course are:

Assessment Type	What	Due Date	Learning Outcomes	Weighting
Portfolio - project	Project in three milestones		1,2	90%
	Project Milestone 1	28 <sup>th</sup> August 12:00 midday.		20%
	Project Milestone 2	25 <sup>th</sup> September 12:00 midday.		25%
	Project Milestone 3	20 <sup>th</sup> November 12:00 midday.		45%
Reflective Journal	Evidence of work undertaken each week – journal entries at least one per week.	Throughout the course, final journal entries to be completed for Project Milestone Three	1,2	10%
			Total	100%

# Reflective Journal

- At least 1 entry per week
- Weekly reflection of what we have learnt in Class
- Journals done in Github Classrooms
- <https://github.com/NMIT-GITHUB/journal-YOUR-GITHUB-USERNAME>
- What? Why? How?
- Worth 10% of the course



Know Thy Impact!		
WHAT	WHY	HOW
WHAT HAVE I LEARNT?	WHY HAVE I LEARNT THIS?	HOW HAVE I LEARNT THIS?
WHAT DO YOU KNOW NOW THAT YOU DIDN'T KNOW BEFORE?	WHAT IS THE POINT?	WHAT WILL I DO TO REMEMBER THIS LEARNING?
WHAT NEW UNDERSTANDING/SKILLS HAVE YOU GAINED?	WHAT ARE THE REAL LIFE/WORK APPLICATIONS?	WHAT WILL I DO TO FILL IN ANY GAPS IN MY UNDERSTANDING?

# Milestone 1

## Milestone 1 requirements:

- One page description of a website before second week
- Website must be:
  - A hobby website for students
  - A tourism website
  - A web app for a local business
- Website must have login functionality to “track” users
- Sections of the website
- Allow people to write comments about the content
- Create an “Architectural framework” prototype
- Push the work to github repository

# Milestone 1 cont

## Things to hand in:

- 44 marks (worth 20% of the total assessment)
- Coding Practices (6 marks)
- Minimum Structure (15 marks)
- Operating without errors (3 marks)
- Report on Information Architecture (20 marks)



# Milestone 2

Extend and develop a website as described in your project brief as approved by Todd.

## Milestone 2 requirements:

- Use React, ExpressJS and KnexJS
- Demonstrate a server-side and client-side rendering
- The web app should run and test the functionality provided.
- Provide a written report to describe the information architecture clearly



# Milestone 2 cont

## Things to hand in:

- 40 marks with 25% of the class
- Coding practices (5 marks)
- Uses React, ExpressJs and KnexJS structure (15 Marks)
- Data submitted and returned from the database (5 marks)
- Documentation is thorough (5 marks)

# Milestone 3

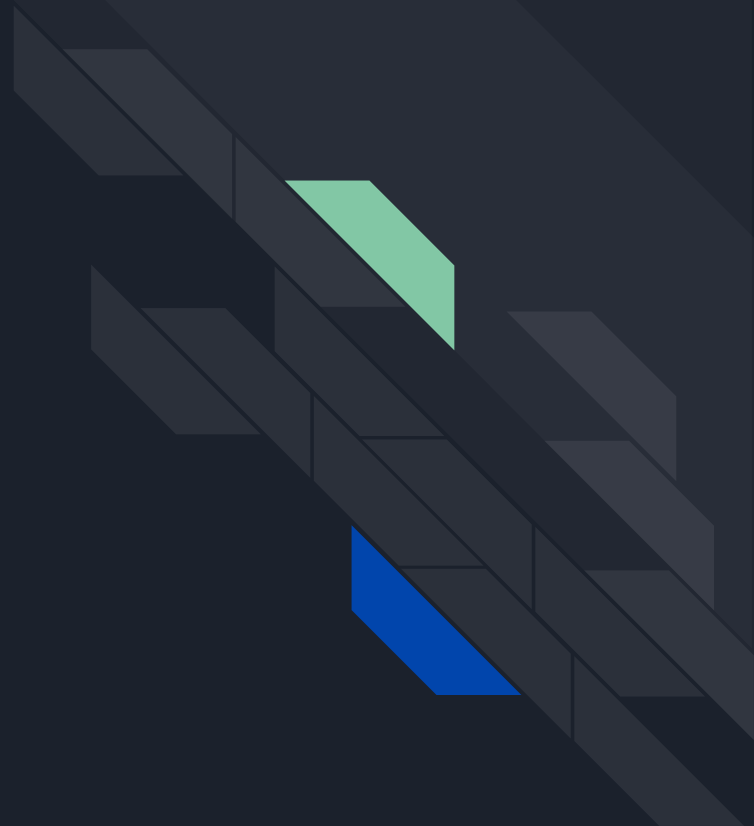
## Milestone 3 requirements:

- Finalize the development of the web app
- Complete the documentation of the website
- Report on the Information Architecture developed
- Cite all sources of snippet code
- Make a complete web app

# Milestone 3 cont

## Things to hand in:

- Part one (50 marks)
  - Coding Practices (5 marks)
  - UI components design (7 marks)
  - Responsive web app (8 marks)
  - The rest of the app (30 marks)
    - Client side functionality (10 marks)
    - Web app database (10 marks)
    - Server side functionality (10 marks)
- Part two (24 marks)
  - Redux main Parts
    - Actions (8 marks)
    - Reducers (8 marks)
    - Store (8 marks)
- Documentation (16 marks)



“It does not matter how slowly you go as long as you do not stop”

- Confucius



# Thanks!

Destinee “D” Laila

Mark Christison

Vicky Chan

