SUMMER INTERNSHIP PROJECT REPORT

INTERN AT CODING NINJAS

From:

03-03-20 to 03-07-20 (16 weeks)

Supervised By:

Mr Arpan Garg and Miss Manisha Khattar Instructor at Coding Ninjas

Submitted By:

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University School of Information, Communication & Technology Guru Gobind Singh Indraprastha University, Dwarka

DECLARATION:

I Aman Kumar Jha, a student of Information Technology, Vth semester in University School of Information, Communication & Technology, Dwarka hereby declare that the work presented in this project report was undertaken from 03-03-20 to 03-07-20 under the guidance of Mr. **Arpan Garg** and Miss **Manisha Khattar**, Instructor and Founding Member of **CODING NINJAS**.

The matter embodied in this project report has not been submitted by me or anybody else to any institution for award of any other degree or diploma except to University School of Information, Communication & Technology, for the fulfillment of the requirements for the award of degree of Bachelors of Technology.

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ACKNOWLEDGEMENT:

The time I spent in CODING NINJAS as an intern from 3rd March 2020 to 3rd July 2020 was a memorable one for me as it was rich in experience sharing and helped me discover my potential. I have had so many experiences and opportunities that I personally believe will forever shape and influence my professional skills while fostering personal growth and development.

With a sage sense of gratitude, I acknowledge various people who directly or indirectly contributed in the development of this work and who influenced my thinking, behavior & acts during the course of internship. I express my deep sense of gratitude to Mr. Arpan Garg and Miss. Manisha Khattar for their technical support and constant supervision which contributed immensely to my development. I also thank them for their guidance which was a remarkable force that enabled me to successfully complete the internship program.

I would also like to thank my parents and my friends whose love and guidance are with me in whatever I pursue.

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TABLE OF CONTENTS:

S.No.	TOPIC	Page No.
i)	Declaration	2
ii)	Acknowledgement	3
iii)	Table of Contents	4
1.	Organization Profile	5
2.	Introduction to the Project	6
	2.1 Overview	6
	2.2. Front End Development	7
	2.2.1 HTML	7
	2.2.2 CSS	7
	2.2.3 Javascript	8
	2.3 Back end Development	9
	2.3.1 Node JS	9
	2.3.2 Express JS	9
	2.3.2 Mongo DB	
	2.3.2 Passport JS	
3.	Project	10
	3.1 Music Player	10
	3.2 Todo App	11-23
	3.3 Buyffers	
4.	Conclusion	24
5.	Certificate	25
6.	Bibliography	25

ORGANIZATION PROFILE:

At Coding Ninjas, our mission is to continuously innovate the best ways to train the next generation of developers and to transform the the way tech education is delivered.

Coding Ninjas was founded in 2016 to bridge the knowledge gap between colleges and industry. Founded by Ankush Singla, Kannu Mittal and Dhawal Parate, Coding Ninjas boasts of world-class teaching faculty and a state-of-art learning platform for Coding education with faculty alumni of IIT, Stanford, IIIT and Facebook. Coding Ninjas teaches 17+ Programming courses in Foundation,I Advanced, Data & Development courses such as Machine Learning, Data Science, Web Development, Android and more. Today, Coding Ninjas ecosystem comprises of 40,000+ students and alumni, 1000+ Campus Ambassadors, 2000+ Teaching Assistants, and 150+ employees.

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INTRODUCTION:

I did an internship at for sixteen weeks from 3rd March 2020 to 3rd July 2020. This internship was a part of my 4 years Bachelors (B.Tech. - IT) program, which I am currently pursuing in University School of Information, Communication & Technology.

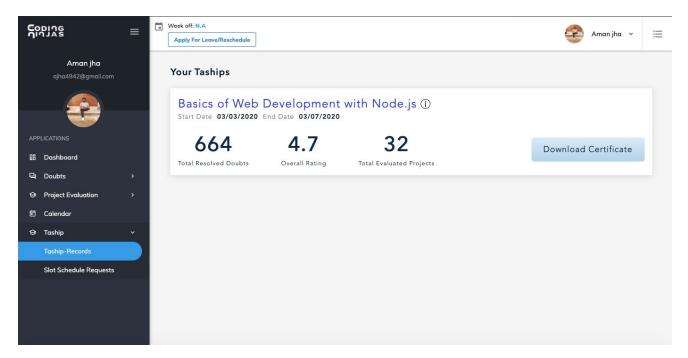
I was assigned a role to debug codes and to work on the web development course to help students solve there doubts and i also evaluated more than 30+ Projects along with 680+ doubts on the complete Full Stack Development Course at CODING NINJAS.

Key responsibilities during the internship were -

- Taking doubt sessions
- Debugging codes
- Helping students in their assignments & various projects.

I used VSCODE to develop the projects and Evaluation.

Through this internship, I not only gained a lot of knowledge about the Full Stack Development but also got a chance to sharpen my skills in a professional working environment, which was very new to me. I had a great experience working with the team of Coding Ninjas.

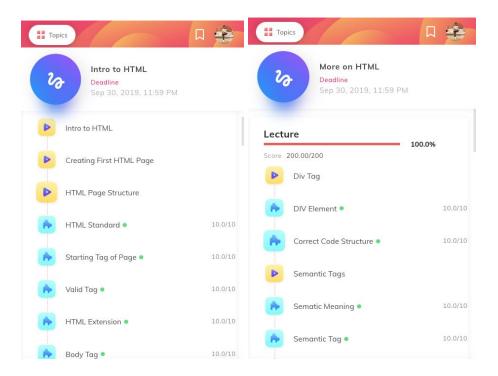


FRONT END DEVELOPMENT

☐ HTML:

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages.

HTML PAGE STRUCTURE <a href="https://www.ncbi.nlm.num.ncbi.nlm.n



□ CSS:

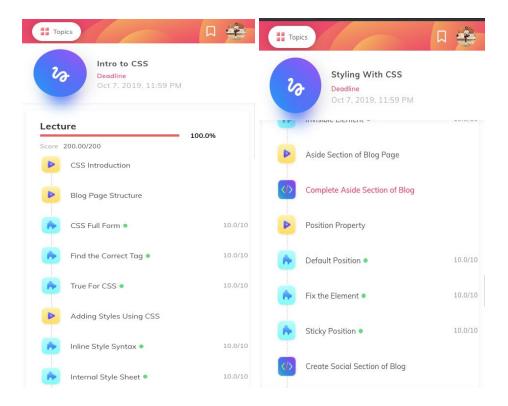
Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

CSS is easy to learn and understood but it provides powerful control over the presentation of an HTML document.

```
p {
    color: blue;
    text-align: center;
}
```

Hello World!

These paragraphs are styled with CSS.

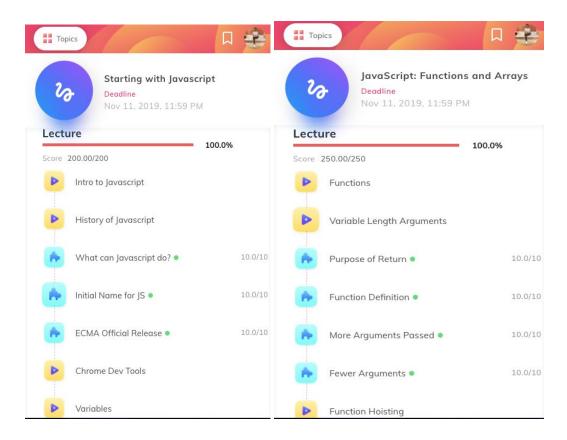


□ JAVASCRIPT:

JavaScript is a lightweight, cross-platform and interpreted scripting language. It is well-known for the development of web pages, many non-browser environments also use it. JavaScript can be used for **Client-Side** developments as well as **Server-Side** developments. JavaScript contains a standard library of objects, like **Array**, **Date**, and **Math**, and a core set of language elements like **operators**, **control structures**, and **statements**.

Basic Syntax:





BACK END DEVELOPMENT

□ NODE JS

Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.

Node.js also provides a rich library of various JavaScript modules which simplifies the development of web applications using Node.js to a great extent.

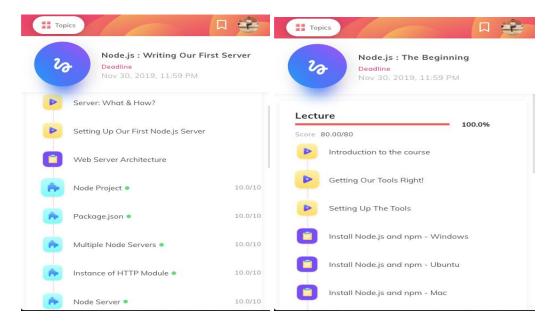
Node.js = Runtime Environment + JavaScript Library

```
const http = require('http')

const hostname = '127.0.0.1'
const port = process.env.PORT

const server = http.createServer((req, res) => {
    res.statusCode = 200
    res.setHeader('Content-Type', 'text/plain')
    res.end('Hello World!\n')
}

server.listen(port, hostname, () => {
    console.log('Server running at http://${hostname}:${port } }
}
```



EXPRESS JS

Express is a minimal and flexible Node.js web application framework that provides a robust set of features to develop web and mobile applications. It facilitates the rapid development of Node based Web applications. Following are some of the core features of Express framework –

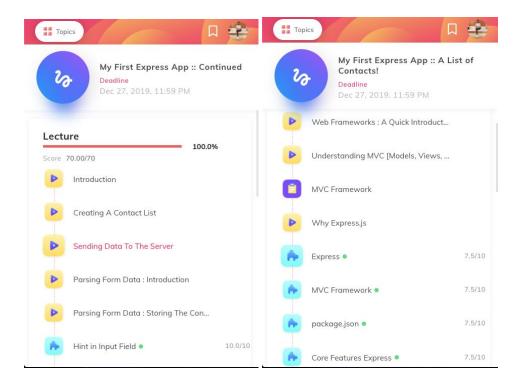
- Allows to set up middlewares to respond to HTTP Requests.
- Defines a routing table which is used to perform different actions based on HTTP Method and URL.
- Allows to dynamically render HTML Pages based on passing arguments to templates.

```
var express = require('express');
var app = express();

app.get('/', function (req, res) {
   res.send('Hello World');
})

var server = app.listen(8081, function () {
   var host = server.address().address
   var port = server.address().port

   console.log("Example app listening at http://%s:%s", host, port)
})
```

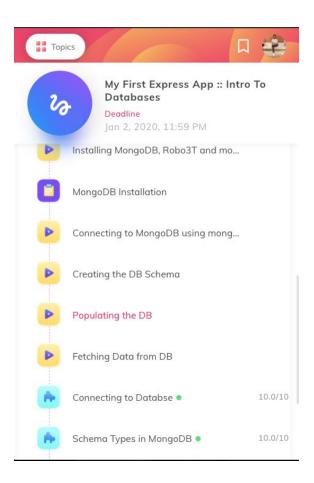


□ MONGO DB

MongoDB, the most popular NoSQL database, is an open-source document-oriented database. The term 'NoSQL' means 'non-relational'. It means that MongoDB isn't based on the table-like relational database structure but provides an altogether different mechanism for storage and retrieval of data.

A simple MongoDB document Structure:

```
title: 'Geeksforgeeks',
by: 'Harshit Gupta',
url: 'https://www.geeksforgeeks.org',
type: 'NoSQL'
}
```



□ PASSPORT JS:

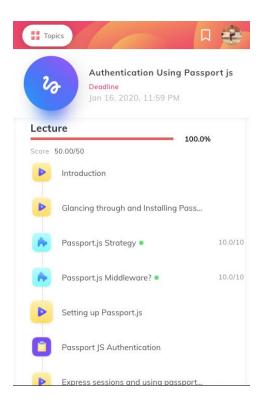
Passport is the authentication middleware for Node. It is designed to serve a singular purpose which is to authenticate requests. It is not practical to store user password as the original string in the database but it is a good practice to hash the password and then store them into the database.

```
// importing modules
var mongoose = require('mongoose');
var Schema = mongoose.Schema;
var passportLocalMongoose = require('passport-local-mongoose');

var UserSchema = new Schema({
    email: {type: String, required:true, unique:true},
    username : {type: String, unique: true, required:true},
});

// plugin for passport-local-mongoose
UserSchema.plugin(passportLocalMongoose);

// export userschema
module.exports = mongoose.model("User", UserSchema);
```



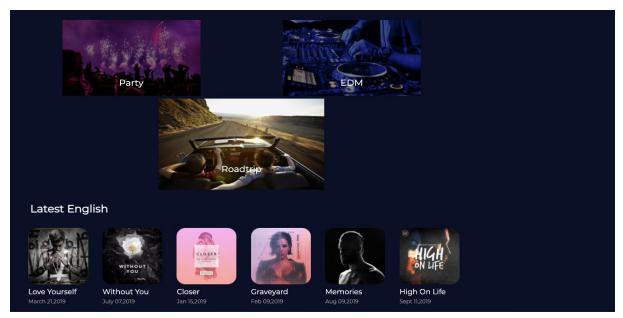
PROJECTS

☐ Music Player:

Developed a full frontend-based music player interface using HTML5 and CSS. A responsive web design that has been created using reference of websites like spotify.

Along with that i have also created a bottom Music player, single playlist screen and a Home Carousel.





Code Snippet - Worked in Submine Text Editor

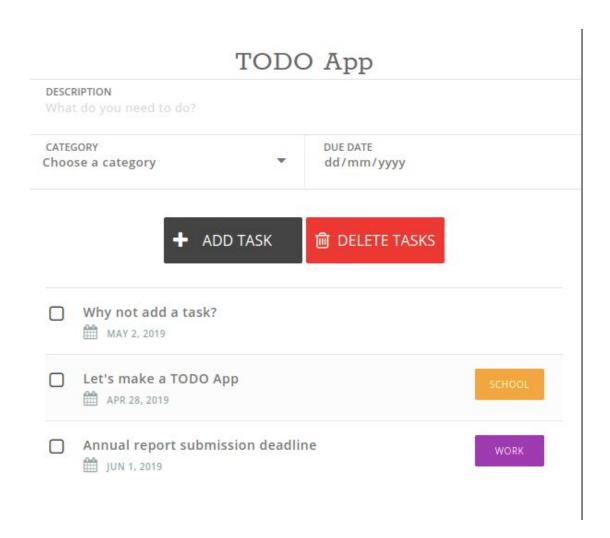
```
| Nodex.html | X | Node
```

```
| Main | Section | Begins | Section | Section
```

Github Repo - https://github.com/AmanJha199/MusicPlayer

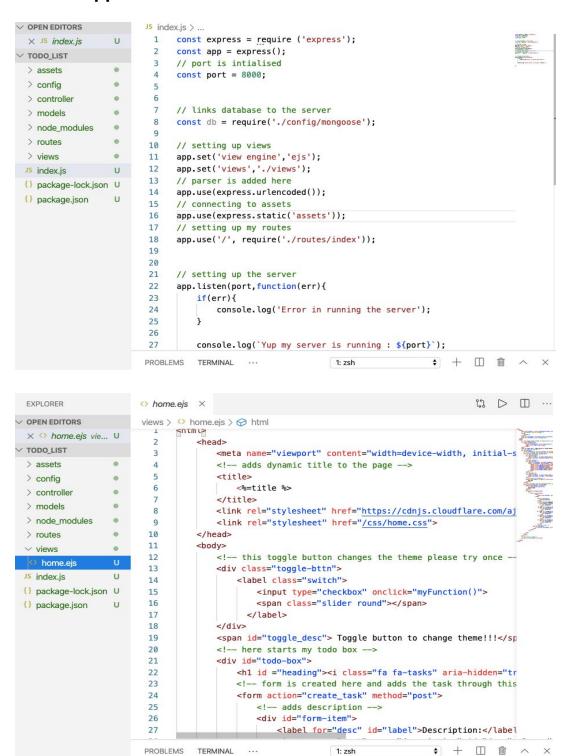
☐ TODO APP:

Developed a TODO App in which users can create to-do lists, where they can add list of Tasks. The Task created by user then should be stored in the Database. Here i have used Node Js, Express Js and Mongo DB as the database.



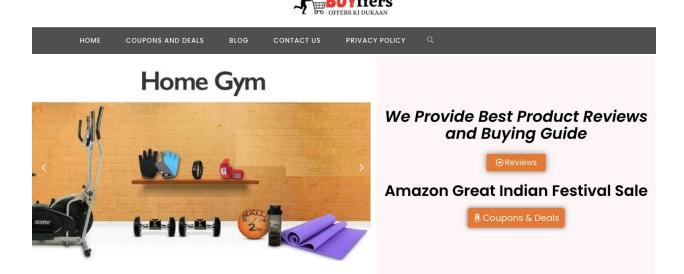
Gif Video of Todo App - TODO-APP.gif

Code Snippet - I used VS Code to write the code.



BUYFFERS:

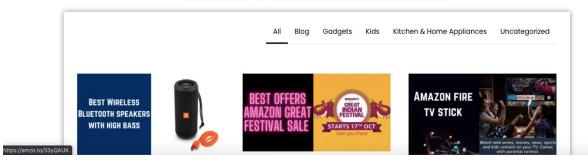
<u>buyffers.com</u> is an Amazon Affiliate Website and is another spot for all Offers and Deals on Amazon and we offer the absolute best in Commercial wellness gear at reasonable costs using HTML, CSS, Bootstrap and Wordpress.



SHOP DEALS IN CATEGORIES



Best Products Reviews



Code Snippet:

```
45
                                    // Archive Post Count for clearing float
46
                                    $oceanwp_count = 0;
47
                                    while ( have_posts() ) : the_post();
48
                                       $oceanwp_count++;
49
                                       get_template_part( 'partials/edd/archive' );
50
                                       if ( oceanwp_edd_entry_columns() == $oceanwp_count ) {
51
                                           $oceanwp_count=0;
52
53
                                    endwhile; ?>
54
                               </div>
55
56
                               <?php
57
                               do_action( 'ocean_after_archive_download' );
58
                           } else { ?>
59
                           <div id="blog-entries" class="<?php oceanwp_blog_wrap_classes(); ?>">
60
61
62
                                // Define counter for clearing floats
63
                               $oceanwp_count = 0; ?>
64
65
                               <?php
66
                               // Loop through posts
67
                               while ( have_posts() ) : the_post(); ?>
```

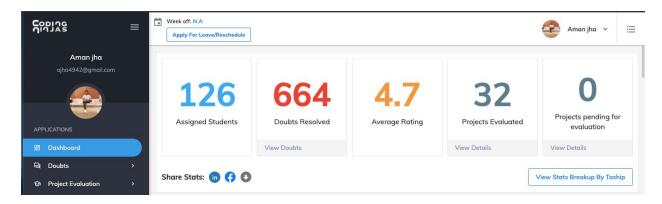
```
8 <!DOCTYPE html>
 9 <html class="<?php echo esc_attr( oceanwp_html_classes() ); ?>" <?php language_attributes(); ?>>
10 <head>
11
      <meta charset="<?php bloginfo( 'charset' ); ?>">
12
      <link rel="profile" href="https://gmpg.org/xfn/11">
14
15
             <?php wp_head(); ?>
16 </head>
18 <body <?php body_class(); ?> <?php oceanwp_schema_markup( 'html' ); ?>>
19
20
       <?php wp_body_open(); ?>
21
22
      <?php do_action( 'ocean_before_outer_wrap' ); ?>
23
24
       <div id="outer-wrap" class="site clr">
25
26
          <a class="skip-link screen-reader-text" href="#main"><?php esc_html_e( 'Skip to content', 'oceanwp' ); ?></a>
27
28
          <?php do_action( 'ocean_before_wrap' ); ?>
          <div id="wrap" class="clr">
30
31
```

CONCLUSION:

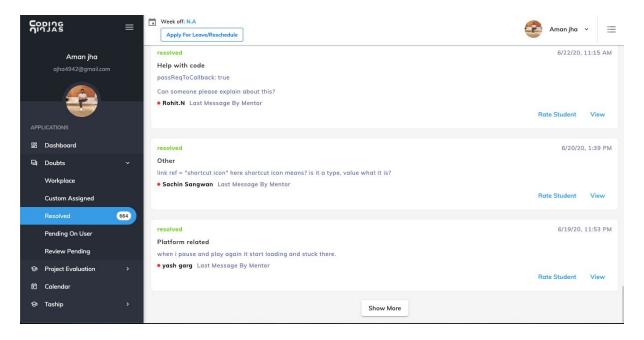
During the internship in Coding Ninjas there was 126 Students assigned to me and my Key Responsibilities were -

- Taking doubt session.
- Debugging codes
- Helping students in their assignments & various projects.

I have to complete weekly tasks and also guide students during there course in debugging codes and during Projects.



During the Course i Resolved more that 664+ Doubts and Evaluated 32 Projects -



What Did I LEARN? & CERTIFICATE

During the course of my training, I gained a lot of knowledge about Data structures and Algorithms(DSA) and also build a lot of confidence in my problem solving skills. This training was more fruitful than I had imagined. It was not boring or monotonous, rather I loved training. The learning experience was unparalleled and I'm glad that I decided to train in a ed-tech startup.



Certificate Link - Internship-Certificate.pdf

BIBLIOGRAPHY:

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