# COS30043 - Video Coding Tutorial

Task 10.2HD High Distinction Project





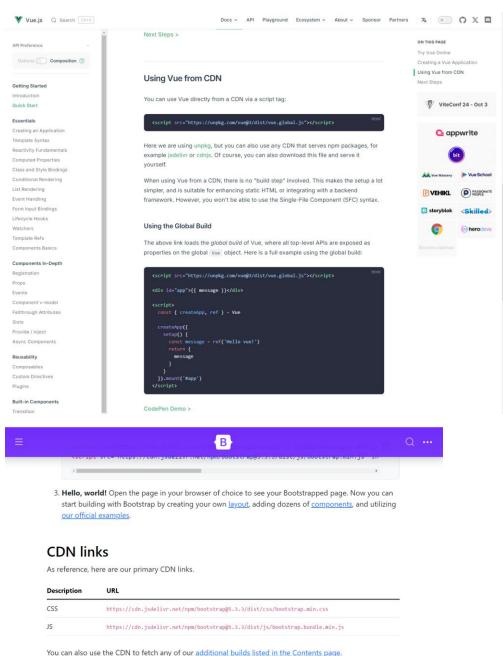
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Unit: COS30043

This report is for documenting evidence of the video tutorial for Task 10.2HD High Distinct Project. The tutorial will be covering topics from the lecture slides in week 4, week 6, and week 7. All these topics are implemented in the custom web application project, Task 6.2D-HD. For this project, this will be video coding of the login page that was built in the customer web application project, Task6.2D-HD. This project uses VueJS and Bootstrap frameworks, PHP fetch API, and MySQL database. In addition to being able to perform insert data into the MySQL database, a method of form validation was also implemented to ensure that only data under the correct format or filled with data input will be accepted, before it was being set to the Fetch API.

All code will that is written in the video tutorial will be included in the compressed ZIP file.

## VueJS file and Bootstrap CDN include:



## **VueJS Component Code**

```
const Login = {
  template:
   <form v-on:submit = "checkForm">
     <label for="username" class="form-label">Username</label>
     <input v-model="input.username" type="text" id="username" class="form-control">
{{error}}
     <label for="password" class="form-label">Password</label>
     clause | foi = password | class = | foi = late | foi = password | class = "form-control" |
cinput v-model="input.password" type="password" id="password" class="form-control" |
cp class="text text-danger" v-for="error in passwordErrors" > {{error}} 
     <button type="submit" class="btn btn-primary">Login</button>
     {{message}}

  data() {
return {
        input: {
           username: "",
password: "",
        message: "",
       usernameErrors: [],
passwordErrors: [],
  },
methods: {
     login() {
  const formData = new FormData();
  formData.append("username", this.input.username);
  formData.append("password", this.input.password);
        const requestOptions = {
  method: "POST",
  hody: formData.
```

```
X index.html
                                      us script.js
                                                          apis.php
js > components > Js login.js > [∅] Login
   const Login = {
           methods: {
             login() {
  const requestOptions = {
                  body: formData,
                fetch("resources/apis.php?action=login", requestOptions)
                   .then((response) => {
  if (response.status === 202) {
    this.$root.authenticatedUser = this.input.username;
                        this.$root.setAuthenticated(true);
                     this.$router.replace({ name: "dashboard" });
} else if (response.status === 501) {
  this.message = "Invalid login credentials";
                   .catch((error) => {
  console.log("Error: " + error);
              checkForm(event) {
                this.usernameErrors = [];
this.passwordErrors = [];
                let result = true;
                if (!this.input.username) {
  this.usernameErrors.push("Username is required");
                   result = false;
                if (!this.input.password) {
  this.passwordErrors.push("Password is required");
                   result = false;
                if (result === true) {
us login.js X 5 index.html
                                          Js script.js
                                                                                    ∃ st
js > components > 🗾 login.js > 🗭 Login
         const Login = {
            methods: {
               checkForm(event) {
                  if (!this.input.password) {
                    this.passwordErrors.push("Password is required");
                    result = false;
                  if (result === true) {
                   this.login();
                    event.preventDefault();
         };
```

### PHP Backend Code

```
index.html
                            s script.js
                                          apis.php X 3 style.css
Js login.js
resources > 🐡 apis.php
      // connect to the mysql database, provide the appropriate credentials
      $conn = mysqli_connect('localhost', 'root', '', 'realestate');
      mysqli_set_charset($conn, 'utf8');
      $response = array();
      $i = 0;
 13 ∨ if ($conn) {
          switch ($_GET['action']) {
                 case 'login':
                 if($_SERVER['REQUEST_METHOD'] === "POST") {
 17
                     $username = $_POST['username'];
                     $password = $_POST['password'];
                     $sql = "SELECT * FROM users WHERE UserName = ? AND Password = ?";
                     $stmt = $conn->prepare($sq1);
                     $stmt->bind_param("ss", $username, $password);
                     $stmt->execute();
                     $result = $stmt->get_result();
                     $login = $result->fetch_assoc();
                     if(isset($login['UserName']) && isset($login['Password'])) {
                        http_response_code(202);
                     } else {
                        http_response_code(501);
                     $stmt->close();
                 } else {
                     http_response_code(405);
                 break;
```

### Video Tutorial Link:

https://youtube.com/watch?v=waMOxwXqxjE