

American International University-Bangladesh (AIUB)

Course: Advanced Programming with Web Technologies (APWT)

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Lab Task - 02

Title: Express CMS Development

Description: Develop a multi-page website for a company. In this project there are two types of user's. One is ADMIN and another is EMPLOYEE. An Admin can access all of the pages with page contents where Employees are not allowed to access any pages. Admin can also perform Adding, Updating & Deleting functions. Both users are need to login to access the application.

Functional Requirements:

Module Name	URL	Feature's
M1:Login	/Login	F1: Design a Login Page as usual. (Username, Password Input field and Login Button)
M2:Admin	/Admin	F1: Its Admin Dashboard. Add Employee and AllEmpList button are there.
	/Admin/AddEmployee	F2: Design a form contains EmpName,EmpPhone,EmpAddress input field and EmpGender, EmpDesingation dropdown list and lastly AddEmployee button.
	/Admin/AllEmployeeList	F3: Design a table along with EmpID,Name,Phone,Gender,Designation and a Action field. In action field there are two links : Update & Delete.
	/Admin/Update/{id}	F4: Clicking the update link/button which is mentioned on F3 this Update page will open with a specific employee's all information.
	/Admin/Delete/{id}	F5: Clicking the Delete link/button which is mentioned on F3 this delete page will open a specific employee ID and there a have confirmation message also.
M3: Employee	/Employee	F1: This is Employee Home page. There should be two buttons. MyProfile and UpdateProfile.
	/Employee/MyProfile	F2: Here employee can see his profile information like Name, Phone, Designation etc.

	/Employee/UpdateProfile	F3: Here employee can update his/her information. There should be a form along with form data.
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Technical Requirements:

1. The application should be developed using Express Web framework
2. The application should follow MVC architecture
3. Must use ejs view engine to design your Pages.
4. Write clean URLs
5. Use Different HTTP Methods
6. Create package.json file for dependency management

Topics will be covered:

- MVC Architecture
- View/Template engine
- Serving HTML response
- Basic Routing
- Request/Response object

Submission Guideline:

1. Create a new repository named “**NodeJS Lab Task**”.
2. Commit & Push in the repository every time you develop/fix any function/feature.
3. Your commit message should be your Lab task number +Module+Feature No. (Like: T2M1F1, T2M2F2). Here T2 means Lab Task , M1 Means Module M1 and F1 means Features 1.
4. **Your commit history will be reviewed. Maintain your commits properly.**