**The Technological and Higher Education Institute**

**DIT5402 Object Oriented Framework and Design Pattern**

**Proposal**

**Team member**

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**1.1 Topic**

Topic 3, a membership management system is chosen as the topic of the team assignment. A prototype including HTML web pages and database will be given out at the end.

**1.2 Proposed framework**

Node.js is used as a development framework for the assignment. It is a single programming language. It gives a simple way to connect the front-end and back-end. It does not need to use any other server-side programming language. It is simpler for us to learn in a month. Node.js also offers the luxury of writing server-side applications in JavaScript. It makes the process of the web applications simpler because almost all web browsers support JavaScript.

In Node.js, it will directly be using the JavaScript code as the machine code. It will be much faster to help in an effective manner on implementing the code. At the same time, it will support the non-blocking I/O operations, the running environment helps to enhance the speed of the code execution.

Node.js can support HTML and MongoDB. It is a famous development framework that a large and active community of developers are continuously improving and updating the framework. Therefore, Node.js, HTML, Mongo is used to build the system in this assignment.