E-BUYan: WEB-BASED E-COMMERCE OF TUY PUBLIC MARKET AMIDST COVID-19

List down below all the possible/necessary technologies that you will be using for the development every specific features of your system.

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| Programming Language/Framework, Web Service/libraries/API | Description | Purpose for your System | Level of knowledge   1. No prior knowledge 2. Basic Only 3. Currently practicing 4. average 5. Proficient |
| PHP | A programming scripting language that is used in web development to create dynamic web pages. It supports multiple web servers and variety of databases | For backend development of the system | 4 |
| JavaScript | A programming scripting language is used to build interactive web elements and interfaces. JavaScript provides effective features like browser compatibility fixes, data handling, dynamic web elements such as autocomplete, animation to build web pages. | For frontend development of the system and may be used in backend | 3 |
| HTML 5 | It is used to construct structure of the frontend part of systems. HTML5 is significant in web development because it delivers more enhanced design components than the older versions, way faster and is supported in all devices. | Frontend development of the system | 3 |
| CSS | CSS is used to manage display and presentation of the webpages. The significant aspect that CSS provide in web developing is that it doesn’t meddle with system’s structure thus, formatting and designing is made easier. | Frontend development of the system | 3 |
| SQL&MySQL | It is a relational database that houses and manage that data coming in and out in the system. It uses Structured Query Language to manipulate data in the database. | Structured Query Language will be used to manipulate data that comes in and out in the system. MySQL for the database service | 4 |
| RESTful API | Full form of REST API is the Representational State Transfer Application Programming Interface or REST API. It means when a RESTful API is called, the server will *transfer* a *representation* of the requested resource’s *state* to the client system. | It will be used as the bridge for requests and other functions between the system and the database as well as the other services | 1 |
| Shipping API | Shipping helps automate shipping rate calculations for your customers upon checkout or at the shopping cart stage. | This API will be utilized for the purpose of fee calculation of the ship | 1 |
| SMS API | A *SMS API* is well-defined software interface which enables code to send short messages via a SMS Gateway. | This API will used since customers who have deliveries will have to be notified | 1 |
| AJAX | AJAX allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes | The system will be in real time operation. AJAX will be utilized in order for real time changes in the system. | 1 |
| Ionic Framework | Ionic Framework is an app development platform that builds cross-platform apps i.e mobile, web, and desktop apps all with one shared code | The system will be available on the web platform and mobile. Ionic framework will be used to make this possible | 1 |
| Angular | Angular is an open-source, JavaScript framework written in TypeScript. AngularJS is a structural framework for dynamic web apps. | This will be used along with the Ionic framework to further provide dynamic web and mobile application | 1 |