Project Details

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| **Title of the Project:** | **Sell and Buy E-commerce System** |
| **Batch:** | **Weekdays** |
| **Group ID:** | **N3A-G12** |
| **Development Technology:** | **Spring boot** |

**Details of the Group Members:**

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| --- | --- | --- | --- | --- |
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**Service Design**

**API**

**Internal Logic**

**ER**

**Service Development and Testing**

**Tools**

The development and testing tools that are used for the e-commerce project are divided into seven categories.

* IDE
* Frameworks
* VCS
* Dependency Management Tools
* Web Servers
* Programming Languages
* Version Controlling
* Databases

The tools for the above categories that I used for this project including brief justifications.

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| --- | --- | --- |
| IDE | IntelliJ IDEA | IntelliJ IDEA is a Professional IDE for java and java-based frameworks. It is very user friendly and easy to find bugs and handling file structure. And also, IntelliJ contains dependency management tools, VCS management tools. We can easy to handle our project your single IDE. |
| VS Code | Visual Studio code is an IDE which support multiple language development. And also, it is light weighted and various plugin to have easy to development speed. We used this IDE for Frontend development. |
| Frameworks | Spring Boot | Spring Boot one of best framework that provide java web development. We used the spring boost 2.1.4 version for as the main framework as the foundation of our project. It provides MVC architecture to handle model, views and controllers. |
| Bootstrap | Bootstrap is the leading component library for frontend development. It contains lot of components. We used Bootstrap 4.3.3 version for Views development. |
| VCS | GITHUB | We used the GitHub as our version controlling system. It allows to us maintain project source without any missing assets. |
| Dependency management | Maven | we use the maven as the backend dependency management tool. Maven is the efferent tool. Because we don’t need to download any packages, plugin into the project. Maven automatically identify and it will go to original site and download all the necessary plugins, libraries according to parent version. |
| NPM | NPM is a package manager for the JavaScript programming language. It is the default package manager for the JavaScript runtime environment Node.js. we used to NPM as our frontend dependency management tool. |
| Database | MySQL | We used the MySQL as database in our project. It is common database and very easy to handle. |
| Web Server | Apache Tomcat | In our project, we use the Apache tomcat 8.5 version as the web server to deploy our application. It’s very fast web server and we can deploy our application without les bugs. |
| Programming Languages | Java  React Native | Mainly we used java for our project backend development. JavaScript used to handle DOM, http requests and event handling. Also, it is very fast, and light weighted. |

**Testing Methodology**

**References**

In this project, I used lot of references to do the project. I listed in the below.

* [https://www.tutorialspoint.com](https://www.tutorialspoint.com/)
* <https://spring.io/guides>
* [https://www.youtube.com](https://www.youtube.com/)
* [https://stackoverflow.com](https://stackoverflow.com/)
* [https://reactjs.org](https://reactjs.org/)
* [https://getbootstrap.com](https://getbootstrap.com/)