# ASP NET VS SPRINGBOOT

## **Introduction**

In this research document I would like to point out the differences between ASP NET and SpringBoot, and why ASP NET is more suitable for me and my project this semester. I will take into account my experience and other specific qualities one might have over the other.

## **Main Research Question:**

Is ASP NET a more suitable framework for building an ecommerce project than SpringBoot?

## **Research Sub Questions:**

1. What kind of Modules can I make use of for my project through ASP NET vs in SpringBoot?

* What type of modules linking to my project exist?
* Which has the easiest to implement?

1. Which one of these two frameworks is simpler to work with?

* Which one of them do I have more experience in?
* Which one of them has more documentation?

1. How easy is it to satisfy the learning outcomes?

Which one is easier to test?

Which one is easier to apply code persistence to?

## **Answers:**

1. **The useful modules related to my project in each of the frameworks:**

ASP NET has many modules that can be imported and used on an ecommerce website, such as the nopcommerce module that is basically a customizable shopping cart that is completely free and is based on Microsoft tech, so that makes it easier for a developer to integrate it within the C# environment.

ASP NET also has virtocommerce which allows the user to integrate vendor support, advertisement support, a pricing engine and a multi-step checkout which are all things that a user needs when going through an ordering process.

So, if we can conclude for the ASP NET side of this answer, we can safely say that it has many available references and frameworks that can make my mission towards an ecommerce website easier.

Java springboot has a rich community as well, as the Broadleaf is a rich framework that can be easily customized and is expandable to include multi currencies and languages, it can also be expanded to include wordpress in the project and drupal making the project more expandable and easier to adopt for other software developers.

Java SpringBoot also has the Shopizer which is modern and built on frameworks that are famous like Java and Angular, it comes with prebuilt components and a variety of features that are important like a shopping cart, inventory management and order flow.

Overall, we can say that both SpringBoot and ASP NET have a wide range of frameworks that are useful but most of the Java ecommerce frameworks are paid and expensive, while asp net Is more open source and available to everyone for free, which makes it a more valuable and logical decision in this aspect at least.

1. **The Simpler Framework**

ASP NET is a C# language that is getting updated on a regular basis by Microsoft and is being made easier to use with every update, it is a relatively new language after replacing visual basic and proving that coding can be made short and simple, it is also the language that I am most proficient in as all my past semesters have been about the different aspects of this language.

As we know the real challenge of getting to a commercial level with a program Is the real challenge that a software developer faces, that is why it takes years to learn how to develop an app that meets the markets standards and especially when you are switching between languages, however as I have been studying mostly C# in my past semesters I have gotten close to achieving a high level of code quality and understanding of the language that allows me to achieve those standards more easily than if I would have started to learn Java now which is a language that I have almost zero experience in.

Furthermore, Microsoft has ample amount of documentation regarding the different aspects ASP NET, with the ability to request support as well through their online forums.

ASP Net also has a lot of tutorials that can be found on youtube that are easy to follow and thorough.

1. **The easier framework for our learning outcomes:**

ASP NET has entity framework which can comply with the ORM necessity for this project and is easy to implement and learn while java also has the Hibernate ORM framework which implements the JPA specification, so both can have the ability to apply code persistence to with already existing frameworks.

Both Java and C# have unit testing for APIs but with visual studio it is a more simple process and better organised because it is more suited to the C# programming language and is easier to include in the building steps of github and docker that allow for CI/CD.

**The Conclusion:**

Both java and C# have great API frameworks in ASP NET and SpringBoot, however ASP NET is the more suitable one for my project as I have more experience in it and more of what I need in terms of frameworks that are available to me free of charge and are easy to learn.

ASP NET also has more documentation than its counterpart and that is vital when learning how to develop something new, as well as trying to reach a level that is considered suitable.