



# WHAT IS SPRING BOOT AND WOULD IT FIT THE “NADKO DENTALS” PROJECT

SPRING BOOT RESEARCH AND JUSTIFICATION

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## Introduction

This document will discuss the research into the Spring Boot framework and how it will fit with the “Nadko Dentals” personal project.

## Research Methods

- Library

Reading documentation and outside sources and guides in order to better grasp the features of the Spring Boot framework.

- Lab

Using the Spring Boot framework and seeing how well it fits with my personal project.

## Spring Boot

Spring boot is an open-source micro-framework for building Spring framework java applications with the help of micro services. Spring Boot allows developers to start coding without having to setup the environment avoiding having to write boilerplate code, annotations and xml configuration. It also helps with database connection making it a breeze to go through. It even provides an embedded HTTP server to test the web application.

## Spring Framework

Spring framework is the most popular framework for developing enterprise Java applications. It is a modular framework which allows for selective functionality based only on the needs of the application. Spring makes testing simple because environment dependent code is moved to this framework. It also comes with a convenient API to translate technology-specific exceptions into consistent unchecked exceptions. (1) The most important aspect of the Spring framework however is its dependency injection adaptation using Beans. Beans are the objects that form the backbone of a spring application that are managed by the Spring IoC(inversion of control) container. The Spring container is the heart of the Spring framework (1) It creates the objects, changes them, connects them and destroys them. It manages the different components that represent the application using Dependency injection.

## Spring Data

Spring provides consistent and familiar model for data access through JDBC, JPA etc. while retaining the special traits of the underlying data store. It provides object mapping and dynamic query derivation from repository method names with the possibility to integrate custom repository code. This allows the back-end API application to fetch data from the database.

## Conclusion

Spring Framework is a complete package framework that provides countless useful features that will help create a fast and stable implementation of the back-end api application for the Nadko-dentals project.

## Bibliography

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