



# SPRING BOOT

## FUNDAMENTALS AND PROGRAMMING PRACTICUM WITH KEYHOLE SOFTWARE

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### KEYHOLE SOFTWARE COURSE DESCRIPTION

In this hands-on, four-session course, students will be introduced to features and capabilities of Spring Boot.

Course includes a particular focus on hands-on work, requiring students complete incremental exercises and a final practicum tying together important concepts.

### EXERCISE SNAPSHOT

- IMPLEMENTING ADDITIONAL FUNCTIONALITY TO A SPRING BOOT APPLICATION
- CREATING A MAVEN SPRING PROJECT
- IMPLEMENTING A SPRING BOOT APPLICATION STARTUP
- IMPLEMENTING A JUNIT TEST
- IMPLEMENTING A MOCK OBJECT SERVICE
- IMPLEMENTING AND TESTING A JPA QUERY
- IMPLEMENTING A `GET` API
- SETTING UP SPRING BOOT AND POSTMAN API TOOL
- EXPLORING STS DEBUGGER

### PREREQUISITE

Intermediate-to-advanced Java or Spring programming experience.

### COURSE DURATION

Four-session course, online or on-site depending on need.

### TOPICS COVERED IN THIS KEYHOLE COURSE

- APPLICATION ARCHITECTURE
- SERVICE LAYER
- REPOSITORY LAYER
- CONTROLLER LAYER
- MAVEN / ECLIPSE
- DEPENDENCY MANAGEMENT
- MODELS AND DATA ACCESS
- API CONTROLLERS
- SPRING ANNOTATIONS
- SPRING CONTAINER
- O/R MAPPING
- UNIT TESTING
- SPRING DATA
- ADVANCED Q&A

