· 简要说明:

spring boot的作用就是简化开发,集成了绝大多数常用的插件。在spring boot 里面叫做 starter pom。通过这些可以简化配置,因为有一些配置spring boot 自动装配好了

自动装配的配置都在 org.springframework.boot.autoconfigure的源码包内。

- ▲ 5 spring-boot-autoconfigure-1.5.10.RELEASE.jar C:\\U
 - org.springframework.boot.autoconfigure
 - D 🌐 admin
 - D 🌐 amqp
 - D 🖶 аор

 - D 🖶 cassandra

 - couchbase
 - ⊳ 🖶 dao
 - D 🖶 data
 - diagnostics.analyzer
 - D 🖶 domain
 - elasticsearch.jest

 - freemarker

 - gson
 - D 🚻 h2
 - ▶ ⊕ hateoas

 - D 🌐 jms

有两种方式查看 装配情况:

- 1 java -jar xxx.jar --debug
- 2 在application.properties配置文件中加上 debug=true

运行原理:

spring boot的核心入口在于 @SpringBootApplication注解,也就是spring boot 启动java 类的地方标注的注解。

- @SpringBootApplication注解是一个组合注解,核心功能是由
- @EnableAutoConfiguration这个注解提供。

@EnableAutoConfiguration这个注解通过 import 引入了
EnableAutoConfigurationImportSelector.class 这个类,在1.5版本之后 是
AutoConfigurationImportSelector.class这个类。
EnableAutoConfigurationImportSelector继承与
AutoConfigurationImportSelector

AutoConfigurationImportSelector通过
SpringFactoriesLoader.loadFactoryNames()方法来加载META-INF/spring.factories下面的文件,而spring-boot-autoconfigure-xxxx.jar 下面刚好就有这么一个文件,内如如下:

```
# Initializers
  org.springframework.context.ApplicationContextInitializer=\
  org.springframework.boot.autoconfigure.SharedMetadataReaderFactoryContextInitializer,
  \verb|org.springframework.boot.autoconfigure.logging.AutoConfigurationReportLoggingInitializer|
  # Application Listeners
  org.springframework.context.ApplicationListener=\
  org.springframework.boot.autoconfigure.BackgroundPreinitializer
 org.springframework.boot.autoconfigure.AutoConfigurationImportListener=\
  org.springframework.boot.autoconfigure.condition.ConditionEvaluationReportAutoConfigurationImportListener
  # Auto Configuration Import Filters
 org.springframework.boot.autoconfigure.AutoConfigurationImportFilter=\
  org.springframework.boot.autoconfigure.condition.OnClassCondition
 org.springframework.boot.autoconfigure.EnableAutoConfiguration=\
  org.springframework.boot.autoconfigure.admin.SpringApplicationAdminJmxAutoConfiguration,
 org.springframework.boot.autoconfigure.aop.AopAutoConfiguration,\org.springframework.boot.autoconfigure.amqp.RabbitAutoConfiguration,\
 \verb|org.springframework.boot.autoconfigure.batch.BatchAutoConfiguration|, \verb|\|
  org.springframework.boot.autoconfigure.cache.CacheAutoConfiguration,
 org.springframework.boot.autoconfigure.cassandra.CassandraAutoConfiguration,
 org.springframework.boot.autoconfigure.cloud.CloudAutoConfiguration,\
org.springframework.boot.autoconfigure.context.ConfigurationPropertiesAutoConfiguration,\org.springframework.boot.autoconfigure.context.MessageSourceAutoConfiguration,\
org.springframework.boot.autoconfigure.context.PropertyPlaceholderAutoConfiguration,\org.springframework.boot.autoconfigure.couchbase.CouchbaseAutoConfiguration,\
  \verb|org.springframework.boot.autoconfigure.dao.Persistence Exception Translation Auto Configuration, \verb|\autoconfigure.dao.Persistence | Exception Translation Auto Configuration | Auto-Configuration 
  org.springframework.boot.autoconfigure.data.cassandra.CassandraDataAutoConfiguration,
  \verb| org.springframework.boot.autoconfigure.data.cass and ra.Cass and ra.Repositories Auto Configuration, \verb| \alpha and ra.Cass and ra.Cas
org.springframework.boot.autoconfigure.data.couchbase.CouchbaseDataAutoConfiguration,
```

实例分析:

在常规的spring 项目中 web项目进行编码控制的做法是在web.xml中加上过滤器

而在spring boot中,通过上面的自动装配配置文件可以找到,org.springframework.boot.autoconfigure.web.HttpEncodingAutoConfiguration这么一段,说明自动装配进行了编码相关的配置。

查看源码:

```
2 @Configuration
3 @EnableConfigurationProperties(HttpEncodingProperties.class)
1 @ConditionalOnWebApplication
     @{\tt Conditional On Class} \textbf{(Character Encoding Filter.class)}
     @ConditionalOnProperty (prefix = "spring.http.encoding", value = "enabled", matchIfMissing = true | ConditionalOnProperty (prefix = "spring.http.encoding", value = "enabled", matchIfMissing = true | ConditionalOnProperty (prefix = "spring.http.encoding", value = "enabled", matchIfMissing = true | ConditionalOnProperty (prefix = "spring.http.encoding", value = "enabled", matchIfMissing = true | ConditionalOnProperty (prefix = "spring.http.encoding", value = "enabled", matchIfMissing = true | ConditionalOnProperty (prefix = "spring.http.encoding", value = "enabled", matchIfMissing = true | ConditionalOnProperty (prefix = "spring.http.encoding", value = "enabled", matchIfMissing = true | ConditionalOnProperty (prefix = "spring.http.encoding") | ConditionalOnPro
     public class HttpEncodingAutoConfiguration {
                   private final HttpEncodingProperties properties;
                   public HttpEncodingAutoConfiguration(HttpEncodingProperties properties) {
                               this.properties = properties;
                   @Bean
                   @ConditionalOnMissingBean(CharacterEncodingFilter.class)
                   public CharacterEncodingFilter characterEncodingFilter() {
                                CharacterEncodingFilter filter = new OrderedCharacterEncodingFilter();
                                filter.setEncoding(this.properties.getCharset().name());
                                filter.setForceRequestEncoding(this.properties.shouldForce(Type.REQUEST));
                                filter.setForceResponseEncoding(this.properties.shouldForce(Type.RESPONSE));
                                return filter:
```

里面进行了常规中的过滤器filter-class的设置,编码的值在 HTTPEncodingProperties类中进行了设置。代码如图:

```
@ConfigurationProperties(prefix = "spring.http.encoding")
public class HttpEncodingProperties {

   public static final Charset DEFAULT_CHARSET = Charset.forName("UTF-8");

   /**
     * Charset of HTTP requests and responses. Added to the "Content-Type" header if
     * set explicitly.
     */
     private Charset charset = DEFAULT_CHARSET;

   /**

   * Force the encoding to the configured charset on HTTP requests and responses.
     */
     private Boolean force;

/**
```

可以通过spring boot的配置文件对这些值进行设置,如果不设置那么就是默认值。设置方式如下:

spring.http.encoding.charset= spring.http.encoding.force=

自定义starter pom

http://blog.csdn.net/liuchuanhong1/article/details/55057135 https://gitee.com/jiuxiao/mystarter-spring-boot-starter.git