SPRING FRAMEWORK GURU

Internationalization
Spring MVC

Internationalization

- Often abbreviated as i18n (I18N).

  - i + 18 characters in 'internationalization' + n

- Localization - l10n (L10N)

- Fairly broad topic

  - Languages, Currencies, Layouts

i18n with Spring MVC

- i18n in a Spring MVC context generally is looking at support for languages

- Driven by 'accept-language' request header

- 'en-US' - 'en' is the language code, 'US' is the country code

i18n Standards

- Language identifiers were established by RFC 3066 in 2001

- Language Codes are governed by ISO 639

  - ISO - International Organization for Standardization

- Region codes are governed by ISO 3166

  - Can refer to countries, regions, territories, etc.

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Locale Detection

- Default behavior is to use Accept-Language header

- Can be configured to use system, a cookie, or a custom parameter.

  - Custom Parameter is useful to allow user to select language.

Locale Resolvers

- AcceptHeaderLocaleResolver is the Spring Boot Default

- Optionally, can use FixedLocaleResolver

  - Uses the locale of the JVM

- Available: CookieLocaleResolver, SessionLocaleResolver

Changing Locale

- Browsers are typically tied to the Locale of the operating system

- Locale changing plugins are available

- Spring MVC provides as LocaleChangeInterceptor to allow you to configure a custom parameter to use to change the locale.

Resource Bundles

- Resource bundles (aka messages.properties) are selected on highest match order.

- First selected will be on language region

  - ie en-US would match messages_en_US.properties

Resource Bundles

- If no exact match is found, just the language code is used.

  - en-GB would match messages_en_GB.properties

  - OR if no file found, would match messages_en.properties

  - Finally would match messages.properties

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