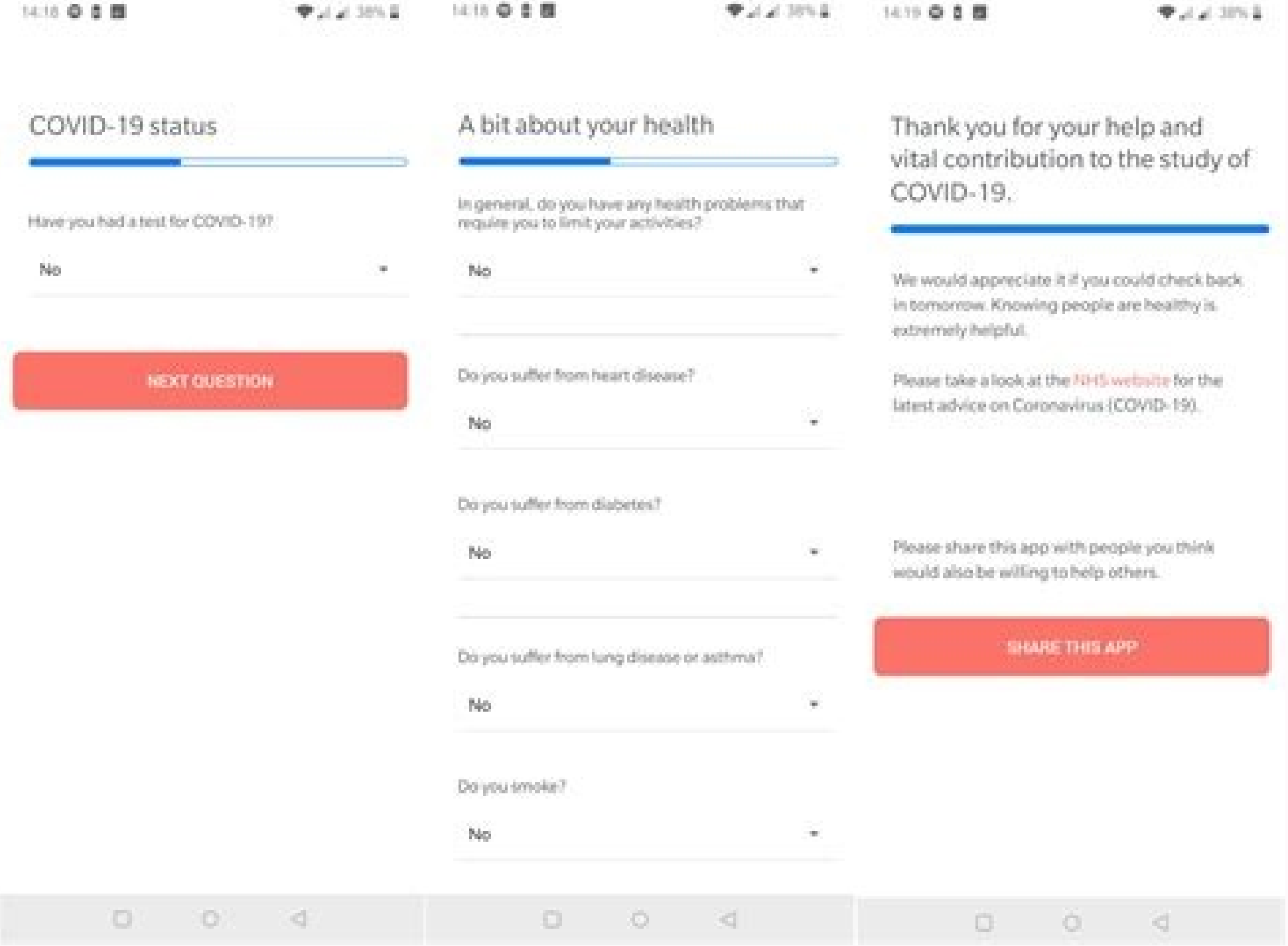


I'm not robot!



Architecture (contd.)

- Access Servlet
 - Handles non-HTML (binary, etc.) requests
- Web Browsers
 - "thin client" mode - no other special software required
 - Some tools may require java applets or flash component plug-ins
- WebDAV Clients
 - To access certain resources in CHEF like, tool/content management service's folders and files

Grid Summer School: Grid Portals

84

This section steps through a sample program named PropertiesDemo. 1. Create the Default Properties File A properties file is a simple text file. You can create and maintain a properties file with just about any text editor. You should always create a default properties file. The name of this file begins with the base name of your ResourceBundle and ends with the properties suffix. In the sample program the base name is LabelsBundle. Therefore the default properties file is called LabelsBundle.properties. This file contains the following lines: # This is the default LabelsBundle.properties file s1 = computer s2 = disk s3 = monitor s4 = keyboard Note that in the preceding file the comment lines begin with a pound sign (#). The other lines contain key-value pairs. The key is on the left side of the equal sign and the value is on the right. For instance, s2 is the key that corresponds to the value disk. The key is arbitrary. We could have called s2 something else, like msg5 or diskID. Once defined, however, the key should not change because it is referenced in the source code. The values may be changed. In fact, when your localizers create new properties files to accommodate additional languages, they will translate the values into various languages. 2. Create Additional Properties Files as Needed To support an additional Locale, your localizers will create a new properties file that contains the translated values. No changes to your source code are required, because your program references the keys, not the values. For example, to add support for the German language, your localizers would translate the values in LabelsBundle.properties and place them in a file named LabelsBundle.de.properties. Notice that the name of this file, like that of the default file, begins with the base name LabelsBundle and ends with the .properties suffix. However, since this file is intended for a specific Locale, the base name is followed by the language code (de). The contents of LabelsBundle.de.properties are as follows: # This is the LabelsBundle.de.properties file s1 = Computer s2 = Platte s3 = Monitor s4 = Tastatur The PropertiesDemo sample program ships with three properties files: LabelsBundle.properties LabelsBundle.de.properties LabelsBundle.fr.properties 3. Specify the Locale The PropertiesDemo program creates the Locale objects as follows: Locale[] supportedLocales = { Locale.FRENCH, Locale.GERMAN, Locale.ENGLISH }; These Locale objects should match the properties files created in the previous two steps. For example, the Locale.FRENCH object corresponds to the LabelsBundle.fr.properties file. The Locale.ENGLISH has no matching LabelsBundle_en.properties file, so the default file will be used. 4. Create the ResourceBundle This step shows how the Locale, the properties files, and the ResourceBundle are related. To create the ResourceBundle, invoke the getBundle method, specifying the base name and Locale: ResourceBundle labels = ResourceBundle.getBundle("LabelsBundle", currentLocale); The getBundle method first looks for a class file that matches the base name and the Locale. If it can't find a class file, it then checks for properties files. In the PropertiesDemo program we're backing the ResourceBundle with properties files instead of class files. When the getBundle method locates the correct properties file, it returns a PropertyResourceBundle object containing the key-value pairs from the properties file. 5. Fetch the Localized Text To retrieve the translated value from the ResourceBundle, invoke the getString method as follows: String value = labels.getString(key); The String returned by getString corresponds to the key specified. The String is in the proper language, provided that a properties file exists for the specified Locale. 6. Iterate through All the Keys This step is optional. When debugging your program, you might want to fetch values for all of the keys in a ResourceBundle. The getKeys method returns an Enumeration of all the keys in a ResourceBundle. You can iterate through the Enumeration and fetch each value with the getString method. The following lines of code, which are from the PropertiesDemo program, show how this is done: ResourceBundle labels = ResourceBundle.getBundle("LabelsBundle", currentLocale); Enumeration bundleKeys = labels.getKeys(); while (bundleKeys.hasMoreElements()) { String key = (String)bundleKeys.nextElement(); String value = labels.getString(key); System.out.println("key = " + key + ", " + "value = " + value); } 7. Run the Demo Program Running the PropertiesDemo program generates the following output. The first three lines show the values returned by getString for various Locale objects. The program displays the last four lines when iterating through the keys with the getKeys method. Locale = fr, key = s2, value = Disque dur Locale = de, key = s2, value = Platte Locale = en, key = s4, value = Clavier key = s3, value = Moniteur key = s1, value = Ordinateur A resource bundle is a set of properties files with the same base name and a language-specific suffix. For example, if you create file en.properties and file de.properties, IntelliJ IDEA will recognize and combine them into a resource bundle. IntelliJ IDEA marks resource bundles with the following icon. In the Project tool window, select the directory where the new resource bundle should be created. From the main menu, select, or press Alt+Insert and click Resource Bundle. In the dialog that opens, specify the base name of the resource bundle. If necessary, select the Use XML-based properties files. To add locales, click and type the comma-separated suffixes of the required locales. Click OK when ready. A new resource bundle " appears in the Project tool window. By default, the bundle contains properties files for all specified locales. You can dissociate it to show only the properties files without the bundle. Right-click the resource bundle you want to dissociate. From the context menu, click Dissociate Resource Bundle. Select the properties files to be combined. Right-click the selection. From the context menu, click Combine to Resource Bundle. Specify the base name of the resource bundle. Once you create several properties files with the same name and different locale suffixes, IntelliJ IDEA automatically recognizes them and groups them in the Project view into a resource bundle. IntelliJ IDEA includes a Resource Bundle editor for convenient editing of localizable strings in properties files. Do one of the following: Select a resource bundle in the Project tool window, and press F4. Open a properties file that is a part of a bundle and click the Resource Bundle tab at the bottom of the editor. Open a properties file. Add, change, or delete keys as required. IntelliJ IDEA reflects the changes in the Resource Bundle editor. Use the Resource Bundle editor to change property values, which will ensure that you edit the entire set of property files simultaneously. IntelliJ IDEA creates respective records in each file of the bundle. Select the property key in the left pane of the resource bundle editor. In the target locale frame, edit the value as required. IntelliJ IDEA updates the respective properties file accordingly. Here, you can also add new properties (the button). Sort, and group properties. When editing a resource bundle, keep the following in mind. IntelliJ IDEA highlights properties with no values or those omitted in one of the properties files. To convert between escape sequences (for example, \u000f) and unicode literals (corresponding national characters, such as 8) in properties files and in the Resource Bundle editor, select the Transparent native-to-ascii conversion checkbox on the File Encoding page of the IDE settings. For more information, see Encoding. It is possible to encode non-ASCII symbols using both uppercase and lowercase hex sequences (for example, \u00E3 and \u00e3). By default, IntelliJ IDEA supports only uppercase sequences. To use lowercase hex sequences, set the idea.native2ascii.lowercase property in the idea.properties file to true. For more information, see Platform properties. When editing properties files, you can press Alt+Enter to use the context actions for copying the key or value of the property at the caret to the clipboard. Last modified: 26 July 2022 java.util.ResourceBundle class enables you to choose and read the property file specific to the user's locale and look up the values. A ResourceBundle object has a base name. In order for a ResourceBundle object to pick up a properties file, the filename must be composed of the ResourceBundle base name, followed by an underscore, followed by the language code, and optionally followed by an additional underscore and the country code. The format for the properties file name is as follows: basename_languageCode_countryCode For example, suppose the base name is MyResources and you define the following three locales: US-en DE-de CN-zh Then you would have these three properties files: MyResources_en_US.properties MyResources_de_DE.properties MyResources_zh_CN.properties Page 2 ResourceBundle class is used to store text and objects which are locale sensitive. Generally we use property files to store locale specific text and then represent them using ResourceBundle object. Following are the steps to use locale specific properties file in a java based application. Step 1: Create properties file. Suppose we need properties file for English locale. Then create a properties file name XXX_en_US.properties where XXX is the name of the file and en_US represents the locale for English(US). Messages_en_US.properties message=Welcome to Tutorialspoint.COM! Let's now create properties file for French locale. Then create a properties file name XXX_fr_FR.properties where XXX is the name of the file and fr_FR represents the locale for French(France). Messages_fr_FR.properties message=Bienvenue sur Tutorialspoint.COM! Here you can figure out that the key is same but the value is locale specific in both the properties file. Step 2: Create ResourceBundle object Create ResourceBundle object with properties file name and locale using following syntax. ResourceBundle bundle = ResourceBundle.getBundle("Messages", Locale.US); Step 3: Get the value from ResourceBundle object. Get the value from ResourceBundle object by passing the key. String value = bundle.getString("message"); Example Following example illustrate the use of ResourceBundle objects to display locale specific values from properties files. IOTester.java import java.util.Locale; import java.util.ResourceBundle; public class I18NTester { public static void main(String[] args) { ResourceBundle bundle = ResourceBundle.getBundle("Messages", Locale.US); System.out.println("Message in "+Locale.US+": "+bundle.getString("message")); } } bundle = ResourceBundle.getBundle("Messages", Locale.FRANCE); System.out.println("Message in "+Locale.FRANCE+": "+bundle.getString("message")); } } Output It will print the following result. Message in en: Welcome to Tutorialspoint.COM! Message in fr: Bienvenue sur Tutorialspoint.COM! Notes for Naming Conventions Following are the naming conventions for the properties file. For properties file mapped to default locale, no prefix is mandatory. message_en_US.properties is equivalent to message.properties. For properties file mapped to Locale(en, "US"), Locale daLocale = new Locale("da", "DK"); NumberFormat numberFormat = NumberFormat.getInstance(daLocale); System.out.println(numberFormat.format(100.76)); } } Output It will print the following result. 100.76 Print Page 3 In this example, we're formatting currencies based on US locale and Danish Locale. IOTester.java import java.text.NumberFormat; import java.util.Locale; public class I18NTester { public static void main(String[] args) { Locale enLocale = new Locale("en", "US"); NumberFormat numberFormat = NumberFormat.getCurrencyInstance(enLocale); System.out.println(numberFormat.format(100.76)); } } Output It will print the following result. kr 100.76 \$100.76 Print Page 4 In this example, we're formatting numbers in percentage format. IOTester.java import java.text.NumberFormat; import java.util.Locale; public class I18NTester { public static void main(String[] args) { Locale enLocale = new Locale("en", "US"); NumberFormat numberFormat = NumberFormat.getPercentInstance(enLocale); System.out.println(numberFormat.format(100.76)); } } Output It will print the following result. 76% Print Page 5 In this example, we're setting min and max digits for both integer as well as fractional part of a number. IOTester.java import java.text.NumberFormat; import java.util.Locale; public class I18NTester { public static void main(String[] args) { Locale enLocale = new Locale("en", "US"); NumberFormat numberFormat = NumberFormat.getInstance(enLocale); numberFormat.setMinimumIntegerDigits(2); numberFormat.setMaximumIntegerDigits(3); numberFormat.setMinimumFractionDigits(2); numberFormat.setMaximumFractionDigits(3); System.out.println(numberFormat.format(1234.763443)); } } Output It will print the following result. 234.763 Print Page 6 In this example, we're showcasing Rounding Mode. IOTester.java import java.math.RoundingMode; import java.text.NumberFormat; import java.util.Locale; public class I18NTester { public static void main(String[] args) { Locale enLocale = new Locale("en", "US"); NumberFormat numberFormat = new DecimalFormat("0.00"); System.out.println(numberFormat.format(100.76)); } } Output It will print the following result. 100.76 Print Page 7 In this example, we're showcasing parsing of number present in different locale. IOTester.java import java.text.NumberFormat; import java.util.Locale; public class I18NTester { public static void main(String[] args) throws ParseException { Locale enLocale = new Locale("en", "US"); Locale daLocale = new Locale("da", "DK"); NumberFormat numberFormat = NumberFormat.getInstance(daLocale); System.out.println(numberFormat.parse("100.76")); } } Output It will print the following result. 100.76 Print Page 8 The java.text.DecimalFormat class is used for formatting numbers as per customized format and as per locale. Example - Format Numbers In this example, we're formatting numbers based on a given pattern. IOTester.java import java.text.DecimalFormat; public class I18NTester { public static void main(String[] args) { String pattern = "###.###.###"; double number = 123456789.123; DecimalFormat numberFormat = new DecimalFormat(pattern); System.out.println(numberFormat.format(number)); } } Output It will print the following result. 1.23456789123E8 1.23456789 Print Page 9 Following is the use of characters in formatting patterns. Sr.No.Class & Description 1 IO to display 0 if less digits are present. 2. To display digit omitting leading zeroes. 3. Decimal separator. 4. Grouping separator. 5. Mantissa and Exponent separator for exponential formats. 6. Format separator. 7. Negative number prefix. 8. Shows numbers as percentage after multiplying with 100. 9. Shows numbers as mille after multiplying with 1000. 10. Mark character as number prefix/suffix. 11. To mark quote around special characters. In this example, we're formatting numbers based on different patterns. IOTester.java import java.text.DecimalFormat; public class I18NTester { public static void main(String[] args) { String pattern = "###.###.###"; double number = 123456789.123; DecimalFormat numberFormat = new DecimalFormat(pattern); System.out.println(numberFormat.format(number)); } } Output It will print the following result. 123456789.123 Print Page 10 By default, DecimalFormat object is using the JVM's locale. We can change the default locale while creating the DecimalFormat object using NumberFormat class. In the example below, we'll use same pattern for two different locale and you can spot the difference in the output. IOTester.java import java.text.DecimalFormat; import java.text.NumberFormat; import java.util.Locale; public class I18NTester { public static void main(String[] args) { String pattern = "###.###.###"; double number = 123.45; Locale enLocale = new Locale("en", "US"); Locale daLocale = new Locale("da", "DK"); DecimalFormat decimalFormat = (DecimalFormat) NumberFormat.getNumberInstance(enLocale); decimalFormat.applyPattern(pattern); System.out.println(decimalFormat.format(number)); } } Output It will print the following result. 123.45 123.45 Print Page 11 Using DecimalFormatSymbols class, the default separator symbols, grouping separator symbols etc. can be changed. Following example is illustrating the same. IOTester.java import java.text.DecimalFormat; import java.text.DecimalFormatSymbols; public class I18NTester { public static void main(String[] args) { String pattern = "###.###.###"; double number = 126473.457; DecimalFormat decimalFormat = new DecimalFormat(pattern); Date date = new Date(); System.out.println(decimalFormat.format(date)); } } Output It will print the following result. Wed Nov 29 17:46:14 IST 2017 Wednesday November 2017 onsdag november 2017 Print Page 12 Using setGroupingSize() method of DecimalFormat, default grouping of numbers can be changed. Following example is illustrating the same. IOTester.java import java.text.DecimalFormat; public class I18NTester { public static void main(String[] args) { double number = 121223232473.4567; DecimalFormat decimalFormat = new DecimalFormat(); System.out.println(decimalFormat.format(number)); } } Output It will print the following result. 121.2232324734567E11 121.2232324734567E11 Print Page 13 java.text.DateFormat class formats dates as per the locale. As different countries use different formats to display dates. This class is extremely useful in dealing with dates in internationalization of application. Following example show how to create and use DateFormat Class. IOTester.java import java.text.DateFormat; import java.util.Date; public class I18NTester { public static void main(String[] args) { Locale locale = new Locale("da", "DK"); DateFormat dateFormat = DateFormat.getDateInstance(DateFormat.LONG); System.out.println(dateFormat.format(new Date())); } } Output It will print the following result. Nov 29, 2017 4:16:13 PM 11/29/17 Nov 29, 2017 November 29, 2017 Wednesday November 29, 2017 Print Page 14 DateFormat class provides various formats to format the date. Following is list of some of the formats. DateFormat.DEFAULT DateFormat.SHORT DateFormat.MEDIUM DateFormat.LONG DateFormat.FULL In following example we'll show how to use different formats. IOTester.java import java.text.DateFormat; import java.util.Date; public class I18NTester { public static void main(String[] args) { DateFormat dateFormat = DateFormat.getDateInstance(DateFormat.DEFAULT); System.out.println(dateFormat.format(new Date())); } } Output It will print the following result. Nov 29, 2017 4:16:13 PM 11/29/17 Nov 29, 2017 November 29, 2017 Wednesday November 29, 2017 Print Page 15 DateFormat class provides various formats to format the time. DateFormat.getTimeInstance() method is to be used. See the example below. In following example we'll show how to use different formats to format time. IOTester.java import java.text.DateFormat; import java.util.Date; public class I18NTester { public static void main(String[] args) { DateFormat dateFormat = DateFormat.getTimeInstance(DateFormat.DEFAULT); System.out.println(dateFormat.format(new Date())); } } Output It will print the following result. Nov 29, 2017 4:16:13 PM 11/29/17 Nov 29, 2017 November 29, 2017 Wednesday November 29, 2017 Print Page 16 DateFormat class provides various formats to format the date and time together. DateFormat.getTimeInstance() method is to be used. See the example below. In following example we'll show how to use different formats to format date and time. IOTester.java import java.text.DateFormat; import java.util.Date; public class I18NTester { public static void main(String[] args) { DateFormat dateFormat = DateFormat.getTimeInstance(DateFormat.DEFAULT); System.out.println(dateFormat.format(new Date())); } } Output It will print the following result. Wed Nov 29 17:01:22 IST 2017 29-11-2017 29-11-2017 Print Page 18 Locale can be used to create locale specific formatting over a pattern in SimpleDateFormat class. See the following example of using locale specific SimpleDateFormat class. IOTester.java import java.text.SimpleDateFormat; import java.util.Date; public class I18NTester { public static void main(String[] args) throws ParseException { String pattern = "dd-MM-yyyy"; SimpleDateFormat simpleDateFormat = new SimpleDateFormat(pattern); Date date = new Date(); System.out.println(simpleDateFormat.format(date)); } } Output It will print the following result. 29-11-2017 date = simpleDateFormat.format(date); System.out.println(simpleDateFormat.format(date)); } } Output It will print the following result. Wed Nov 29 17:01:22 IST 2017 29-11-2017 29-11-2017 Print Page 18 Locale can be used to create locale specific formatting over a pattern in SimpleDateFormat class. See the following example of using locale specific SimpleDateFormat class. IOTester.java import java.text.SimpleDateFormat; import java.util.Date; public class I18NTester { public static void main(String[] args) throws ParseException { Locale locale = new Locale("da", "DK"); String pattern = "EEEE MMMMM yyyy"; SimpleDateFormat simpleDateFormat = new SimpleDateFormat(pattern); Date date = new Date(); System.out.println(simpleDateFormat.format(date)); } } Output It will print the following result. EEEEE MMMMM yyyy HH:mm:ss:SSSZ; simpleDateFormat = new SimpleDateFormat(pattern); System.out.println(simpleDateFormat.format(date)); } } Output It will print the following result. 29-11-2017 11-29-2017 11-29-2017 Wednesday November 2017 18:47:42 Wednesday November 2017 18:47:42+0530 Print Page 21 UTC stands for Co-ordinated Universal Time. It is time standard and is commonly used across the world. All timezones are computed comparatively with UTC as offset. For example, time in Copenhagen, Denmark is UTC + 1 means UTC time plus one hour. It is independent of Day light savings and should be used to store date and time in databases. Conversion of time zones Following example will showcase conversion of various timezones. We'll print hour of the day and time in milliseconds. First will vary and second will remain same. IOTester.java import java.text.ParseException; import java.util.Calendar; import java.util.Date; public class I18NTester { public static void main(String[] args) throws ParseException { Calendar date = new GregorianCalendar(); date.setTimeZone(TimeZone.getTimeZone("Etc/UTC")); date.set(Calendar.HOUR_OF_DAY, 12); System.out.println("UTC: " + date.get(Calendar.HOUR_OF_DAY)); } } Output It will print the following result. UTC: 12 System.out.println("NYC: " + date.get(Calendar.HOUR_OF_DAY)); System.out.println("NYC: " + date.get(Calendar.HOUR_OF_DAY)); } } Output It will print the following result. UTC: 12 UTC: 1511956997540 CPH: 13 CPH: 1511956997540 NYC: 7 NYC: 1511956997540 Available Time Zones Following example will showcase the timezones available with the system. IOTester.java import java.text.ParseException; import java.util.Date; public class I18NTester { public static void main(String[] args) throws ParseException { String[] availableIds = TimeZone.getAvailableIDs(); for(String id : availableIds) { System.out.println("Timezone = " + id); } } } Output It will print the following result. Timezone = Africa/Abidjan Timezone = Africa/Accra ... Timezone = VST Print Page 22 In java, text is internally stored in Unicode format. If input/output is in different format then conversion is required. Conversion Following example will showcase conversion of a Unicode String to UTF8 byte[] and UTF8 byte[] to Unicode byte[]. IOTester.java import java.io.UnsupportedEncodingException; import java.nio.charset.Charset; import java.text.ParseException; public class I18NTester { public static void main(String[] args) throws ParseException, UnsupportedEncodingException { String unicodeString = "\u00C6\u00D8\u00C5"; //convert Unicode to UTF8 format byte[] utf8Bytes = unicodeString.getBytes(Charset.forName("UTF-8")); printBytes(utf8Bytes, "UTF8 Bytes"); //convert UTF8 format to Unicode String converted = new String(utf8Bytes, "UTF8"); byte[] utf8Bytes = converted.getBytes(); printBytes(unicodeBytes, "Unicode Bytes"); } } public static void printBytes(byte[] array, String name) { for (int k = 0; k < array.length; k++) { System.out.println(name + "[" + k + "]" + " = " + array[k]); } } } Output It will print the following result. UTF 8 Bytes[0] = -61 UTF 8 Bytes[1] = -122 UTF 8 Bytes[2] = -61 UTF 8 Bytes[3] = -104 UTF 8 Bytes[4] = -61 UTF 8 Bytes[5] = -123

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