package main.java.com.wfdai.weatherforecastdai.main.weather;

import java.io.IOException; import java.text.SimpleDateFormat; import javax.xml.bind.JAXBException; import net.aksingh.owmjapis.CurrentWeather; import net.aksingh.owmjapis.OpenWeatherMap;

/** * Recolhe os dados da API externa Open Weather Maps @author daniel */ public class OpenWeatherMaps implements WeatherInterface {

```
/**
 * Recolhe os dados da API externa Open Weather Maps
 *
 * @param localizacao String com a localização
 * @param weather Objecto com os dados meteorologicos recolhidos.
 * @throws JAXBException
 * @throws IOException
 */
@Override
public void setWeather(String localizacao, Weather weather) throws JAXBException, IOExceptio
    boolean isMetric = true;
    OpenWeatherMap owm = new OpenWeatherMap("");
    owm.setUnits(OpenWeatherMap.Units.METRIC);
    owm.setApiKey("07187078b07349a4c3098d15c10305af");
    owm.setLang(OpenWeatherMap.Language.PORTUGUESE);
    CurrentWeather cwd = owm.currentWeatherByCityName(localizacao);
    weather.direcaoVento = Math.round(cwd.getWindInstance().getWindDegree());
    weather.velocidadeVento = cwd.getWindInstance().getWindSpeed();
    weather.temperatura = Math.round(cwd.getMainInstance().getTemperature());
    weather.pressao = Math.round(cwd.getMainInstance().getPressure());
    weather.dataDados = cwd.getDateTime();
    weather.humidade = Math.round(cwd.getMainInstance().getHumidity());
    weather.visibilidade = 100 - cwd.getCloudsInstance().getPercentageOfClouds();
    weather.nascerSol = new SimpleDateFormat("HH:mm").format(cwd.getSysInstance().getSunrise
    weather.porSol = new SimpleDateFormat("HH:mm").format(cwd.getSysInstance().getSunsetTime
}
```

}