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<?xml version="1.0"?>
<wsdl:definitions xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
  <wsdl:types>
    <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <xsd:element name="TupleAdvertisement">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="productID" type="string"/>
            <xsd:element name="location">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element name="longitude" type="double"/>
                  <xsd:element name="latitude" type="double"/>
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>
            <xsd:element name="numberAvailable" type="int"/>
            <xsd:element name="price" type="int"/>
            <xsd:element name="picture" type="xsd:ENTITY"/>
            <xsd:element name="description" type="string"/>
            <xsd:element name="merchantID" type="string"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="Merchant">
        <xsd:complexType>
          <xsd:element name="merchantID" type="string"/>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="Request">
        <xsd:complexType>
          <xsd:element name="requestID" type="string"/>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RequestResponse">
        <xsd:complexType>
          <xsd:element name="requestID" type="string"/>
          <xsd:element name="response" type="string"/>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="LocatedNear">
        <xsd:complexType>
          <xsd:element name="requestID" type="string"/>
          <xsd:element name="GreetingMessage" type="string"/>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="ProductRequest">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="productID" type="string"/>
            <xsd:element name="consumerLocation">

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        <xsd:complexType>
            <xsd:sequence>
                <xsd:element name="longitude" type="double"/>
                <xsd:element name="latitude" type="double"/>
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="numberOrdered" type="int"/>
    <xsd:element name="requestID" type="string"/>
    <xsd:element name="merchantID" type="string"/>
    <xsd:element name="consumerID" type="string"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>
</wsdl:types>

<wsdl:message name="TupleAdvertiseMessage">
    <wsdl:part name="body" element="TupleAdvertisement"/>
</wsdl:message>

<wsdl:message name="SubscribeForRequests">
    <wsdl:part name="body" element="Merchant"/>
</wsdl:message>

<wsdl:message name="RequestNotification">
    <wsdl:part name="body" element="Request"/>
</wsdl:message>

<wsdl:message name="GetPurchaseRequest">
    <wsdl:part name="body" element="Request"/>
</wsdl:message>

<wsdl:message name="ProductPurchaseRequest">
    <wsdl:part name="body" element="ProductRequest"/>
</wsdl:message>

<wsdl:message name="VendorResponse">
    <wsdl:part name="body" element="RequestResponse"/>
</wsdl:message>

<wsdl:message name="VendorBuzz">
    <wsdl:part name="body" element="LocatedNear"/>
</wsdl:message>

<wsdl:portType name="Vending">
    <wsdl:operation name="ProductAdvertisement">
        <wsdl:output message="TupleAdvertiseMessage"/>
    </wsdl:operation>

    <wsdl:operation name="ReactToRequest">
        <wsdl:output message="SubscribeForRequests"/>
        <wsdl:input message="RequestNotification"/>
    </wsdl:operation>

    <wsdl:operation name="GetConsumerRequest">
        <wsdl:output message="GetPurchaseRequest"/>
    </wsdl:operation>

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        <wsdl:input message="ProductPurchaseRequest"/>
    </wsdl:operation>

    <wsdl:operation name="BuzzNotification">
        <wsdl:output message="VendorBuzz"/>
    </wsdl:operation>

</wsdl:portType>

    <wsdl:binding name="VendingBinding" type="Vending">

        <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>

        <wsdl:operation name="ProductAdvertisement">
            <soap:operation style="document" soapAction="http://Lime.com/tuplespace/
interface/out"/>
            <wsdl:output>
                <soap:body use="literal"/>
            </wsdl:output>
        </wsdl:operation>

        <wsdl:operation name="ReactToRequest">
            <soap:operation style="document" soapAction="http://Lime.com/tuplespace/
interface/reactsTo"/>
            <wsdl:output>
                <soap:body use="literal"/>
            </wsdl:output>
            <wsdl:input>
                <soap:body use="literal"/>
            </wsdl:input>
        </wsdl:operation>

        <wsdl:operation name="GetConsumerRequest">
            <soap:operation style="document" soapAction="http://Lime.com/tuplespace/
interface/in"/>
            <wsdl:output>
                <soap:body use="literal"/>
            </wsdl:output>
            <wsdl:input>
                <soap:body use="literal"/>
            </wsdl:input>
        </wsdl:operation>

        <wsdl:operation name="BuzzNotification">
            <soap:operation style="document" soapAction="http://Lime.com/tuplespace/
interface/out"/>
            <wsdl:output>
                <soap:body use="literal"/>
            </wsdl:output>
        </wsdl:operation>

    </wsdl:binding>

    <wsdl:service name="LimeVendorService">
        <wsdl:port name="LimeVendorPort" binding="VendingBinding">

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    <soap:address location="lime://239.0.0.1/StadiumA"/>
  </wsdl:port>
</wsdl:service>

</wsdl:definitions>
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