Documentation of Web Services:

1. **Create a user:**

    URL: http://localhost:8080/bidengine/webapi/bidservices/user
    Method: POST
    TestCaseMethod: public void testCreate()

2. **Create a bid item:**

    URL: http://localhost:8080/bidengine/webapi/bidservices/biditem
    Method: POST
    TestCase Method: public void testBidItemCreate()

3. **Get a list of all bid items:**

    URL: http://localhost:8080/bidengine/webapi/bidservices/biditems
    Method: GET

Sample Output:
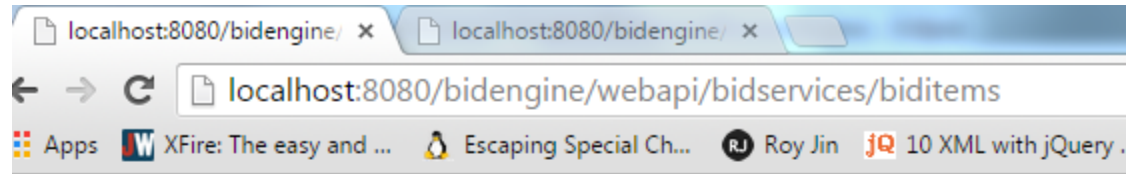
```
<bidItems>
<bidItem>
<bidCriteria>2</bidCriteria>
<bidFinalPrice>300000.0</bidFinalPrice>
<bidStartTime>2015-11-23T12:22:34.617+05:30</bidStartTime>
<hoursToBid>0</hoursToBid>
<itemID>8d207b39b3826880d91f53e2b1eeb8ed</itemID>
<itemName>iphone7s</itemName>
<itemOwnerUser>Rohit</itemOwnerUser>
<itemPrice>200007.0</itemPrice>
</bidItem>
………………………………………
<bidItem>
<bidCriteria>2</bidCriteria>
<bidFinalPrice>300000.0</bidFinalPrice>
<bidStartTime>2015-11-23T12:22:34.551+05:30</bidStartTime>
<hoursToBid>0</hoursToBid>
<itemID>4ddcd42de0cf5842a825baa445637e9d</itemID>
<itemName>iphone3s</itemName>
<itemOwnerUser>Rohit</itemOwnerUser>
<itemPrice>200003.0</itemPrice>
</bidItem>
<bidItem>
<bidCriteria>2</bidCriteria>
<bidFinalPrice>300000.0</bidFinalPrice>
<bidStartTime>2015-11-23T12:22:34.523+05:30</bidStartTime>
<hoursToBid>0</hoursToBid>
```

```xml
<itemID>9e6c2e70ce2c9450d7ee375d7334578</itemID>
<itemName>iphone1s</itemName>
<itemOwnerUser>Rohit</itemOwnerUser>
<itemPrice>3400000.0</itemPrice>
</bidItem>
```

```xml
<bidItems>
  <bidItem>
    <bidCriteria>2</bidCriteria>
    <bidFinalPrice>300000.0</bidFinalPrice>
    <bidStartTime>2015-11-23T12:22:34.617+05:30</bidStartTime>
    <hoursToBid>0</hoursToBid>
    <itemID>8d207b39b3826880d91f53e2b1eeb8ed</itemID>
    <itemName>iphone7s</itemName>
    <itemOwnerUser>Rohit</itemOwnerUser>
    <itemPrice>200007.0</itemPrice>
  </bidItem>
  <bidItem>
    <bidCriteria>2</bidCriteria>
    <bidFinalPrice>300000.0</bidFinalPrice>
    <bidStartTime>2015-11-23T12:22:34.633+05:30</bidStartTime>
    <hoursToBid>0</hoursToBid>
    <itemID>86b5873e9df1a976da1b47161aa2d7e</itemID>
    <itemName>iphone8s</itemName>
    <itemOwnerUser>Rohit</itemOwnerUser>
    <itemPrice>200008.0</itemPrice>
  </bidItem>
```

4. **Get details about a bid item by its ItemID:**

   URL:
   http://localhost:8080/bidengine/webapi/bidservices/biditem/bidItemID
   Method: GET
   TestCase Method: public void getBidItemDetails()

Sample Output:
```xml
<bidItem>
<bidCriteria>2</bidCriteria>
<bidFinalPrice>300000.0</bidFinalPrice>
<bidStartTime>2015-11-23T12:22:34.523+05:30</bidStartTime>
<hoursToBid>0</hoursToBid>
```
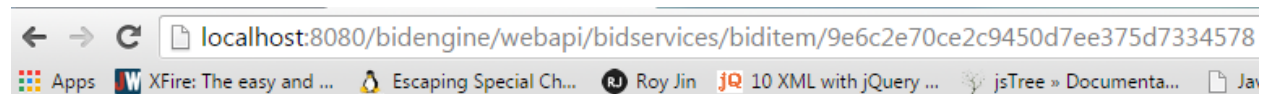
```
<itemID>9e6c2e70ce2c9450d7ee375d7334578</itemID>
<itemName>iphone1s</itemName>
<itemOwnerUser>Rohit</itemOwnerUser>
<itemPrice>3400000.0</itemPrice>
</bidItem>
```


5. Get list of top 5 bidders by price:

URL: http://localhost:8080/bidengine/webapi/bidservices/bidder/biditem/bidID
Method: GET
Ex:http://localhost:8080/bidengine/webapi/bidservices/bidder/biditem/9e6c2e70ce2c9450d7ee375d7334578

Sample Output
```
<bidders>
<bidder>
<bidPrice>3400000.0</bidPrice>
<bidderName>Ram Singh0</bidderName>
</bidder>
<bidder>
<bidPrice>200001.0</bidPrice>
<bidderName>Rohit</bidderName>
</bidder>
</bidders>
```

6. **Putting bid on an item:**

    URL:
    http://localhost:8080/bidengine/webapi/bidservices/biditem/bidItemID
    METHOD: PUT
    TestMethod: public void putBidOnItem()

Sample Output:

```
Bid Item Owner: Ram Singh1
Bid Quote ID: 9e6c2e70ce2c9450d7ee375d7334578 --> Ram Singh2 204851.0
Bid Item Price: 204851.0
Bid Item Owner: Ram Singh2
Bid Quote ID: 9e6c2e70ce2c9450d7ee375d7334578 --> Ram Singh3 204852.0
Bid Item Price: 204852.0
Bid Item Owner: Ram Singh3
Bid Quote ID: 9e6c2e70ce2c9450d7ee375d7334578 --> Ram Singh4 204853.0
Bid Item Price: 204853.0
Bid Item Owner: Ram Singh4
Bid Quote ID: 9e6c2e70ce2c9450d7ee375d7334578 --> Ram Singh5 204854.0
Bid Item Price: 204854.0
Bid Item Owner: Ram Singh5
Bid Quote ID: 9e6c2e70ce2c9450d7ee375d7334578 --> Ram Singh6 204855.0
Bid Item Price: 204855.0
Bid Item Owner: Ram Singh6
Bid Quote ID: 9e6c2e70ce2c9450d7ee375d7334578 --> Ram Singh7 204856.0
Bid Item Price: 204856.0
Bid Item Owner: Ram Singh7
```

7. **Check bid closure based on criteria (time or final price decided by Bidder):**

    URL:
    http://localhost:8080/bidengine/webapi/bidservices/biditem/bidItemID
    METHOD: PUT
    TestMethod: public void putBidOnItemLimitTestOnPrice()

    This method will send back updated by price sent by user, in case of
    failure it will send the last highest bid price indicating the bid is
    closed for the user.