Mobile Part 2C: Steps required to parse XML retrieved from remote server

Using DOM Parser for XML parsing

• The content XML retrieved from step 2B is passed as input to the 2C

High Level outline of what the program is doing

- Get the retrieved XML content from Step 2C as a string
- Instantiate Document object by creating DocumentBuilder and DocumentBuilderFactory classes
- Using the Document object parse through the XML content
- Get all the Element with tag "result"(specific to the XML i used)
- For each result element extract name and score sub elements and store them in an array list.
- Pass this array list as an input to the next activity so that it displays the results in user required format

Sample code for parsing through retrieved XML

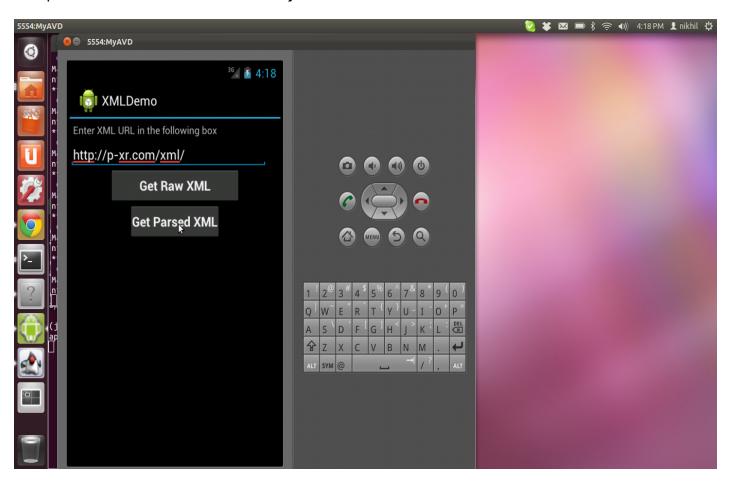
```
ArrayList<String> results = new ArrayList<String>();
     String name, score;
DocumentBuilderFactory factory = DocumentBuilderFactory.newInstance();
        try {
            DocumentBuilder builder = factory.newDocumentBuilder();
            Document dom = builder.parse(new InputSource(new
ByteArrayInputStream(response.getBytes("utf-8"))));
            Element root = dom.getDocumentElement();
            NodeList items = root.getElementsByTagName("result");
            for (int i=0;i<items.getLength();i++) {</pre>
                Node item = items.item(i);
                if (item.getNodeType() == Node.ELEMENT NODE) {
                Element eElement = (Element) item;
                name = getTagValue("name", eElement);
                score = getTagValue("score", eElement);
                results.add(name);
                results.add(score);
            }
        }
       catch (Exception e)
            throw new RuntimeException(e);
        return results;
```

Sending the Results to the next Activity

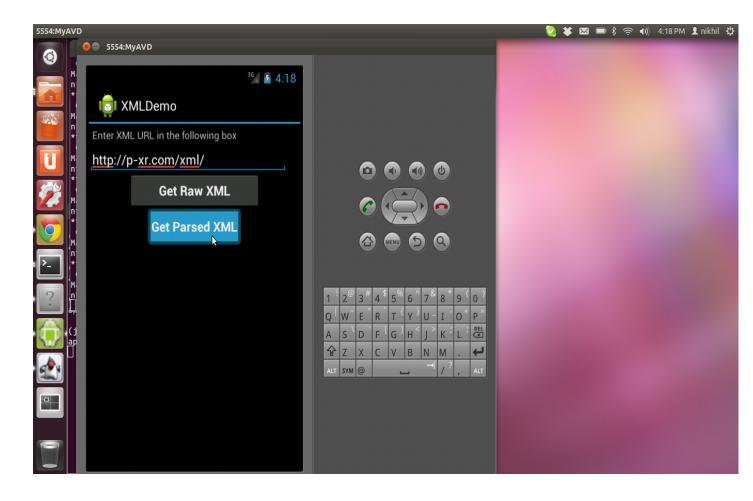
Visual Depiction of Parsing XML results

1. Initial Screen

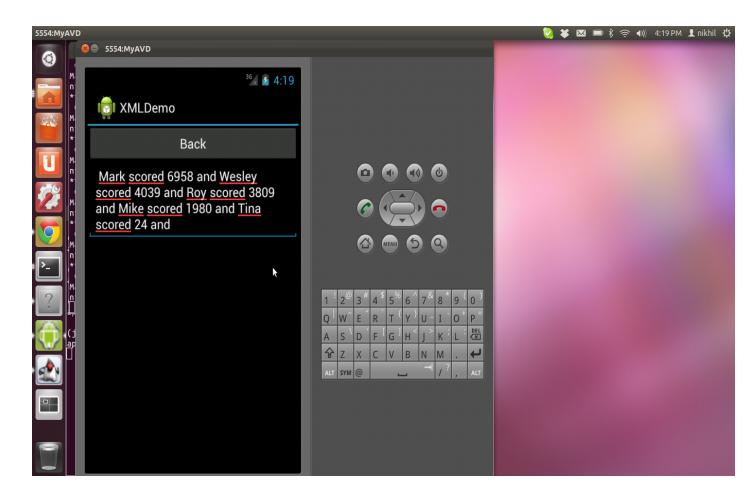
(After running the code, type the url (http://p-xr.com/xml/) into the input box and press "Get Parsed XML" button)



2. Hit "Get Parsed XML" to view the parsed XML



3. Seeing the Parsed XML



4. Hit the Back Button to get back to the initial Screen

