Pokhara University
Spring 2020

B.E   FM 70
Mobile Application development   PM 35

Group A
1. What is an activity in android? Explain how the lifecycle of an android activity works. (2+8)
2. Explain the structure of an android application. What is the resource folder and what is it used for? (6+4)
3. What is ANR, and why does it happen? Which strategies can you use to avoid it? (3+2)
4. What is an Intent? Explain its types. (1+4)
5. Explain how an android app persists information in an android device? (10)
6. What is a view in android? How to create custom views in android? Define android layouts and its types. (2+2+6)

Group B
1. Suppose you go to a job interview and your interviewer gives you the following task. You need to write the pseudocode for the given output design [Fig 1]. How will you solve this task and what strategy will you choose? (20)

   Task
   a. Create an android application that retrieves data from a given URL and displays it in a list as output result.
   b. Provided BASE_URL https://pubookapi.edu.np/
   Assume that the following response is coming from the above URL.

```
{
  "code": 200,
  "message": "Data Retrieved Successfully.",
  "status": true,
  "data": [
    {
      "author": "Chinua Achebe",
      "imageLink":"BASE_URL /pic1.jpg",
      "language": "English",
      "link": "BASE_URL/Things_Fall_Apart",
      "title": "Things Fall Apart",
      "year": 1958
    },
```

```
{
    "author": "Hans Christian",
    "imageLink": "BASE_URL/fairy-tales.jpg",
    "language": "Danish",
    "link":"BASE_URL/Fairy_Tales",
    "title": "Fairy tales",
    "year": 1836
}

    ]
}
```
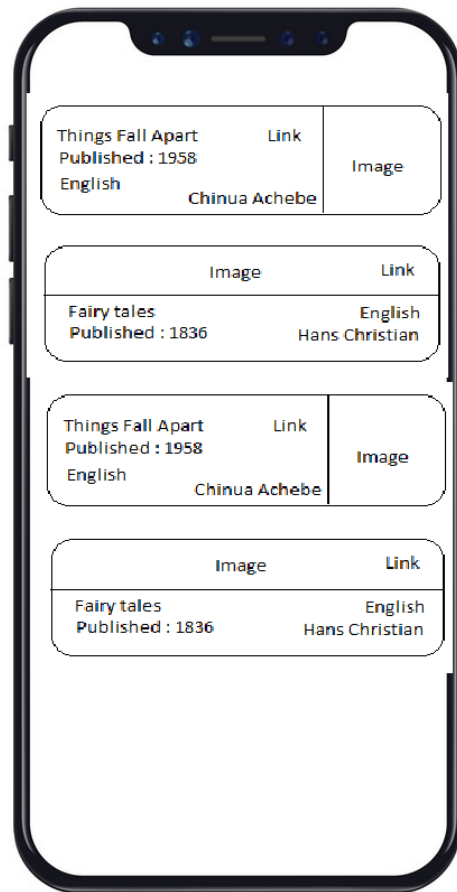
c. Mock Up design provided

Fig 1: Output Result