

## MANIPAL INSTITUTE OF TECHNOLOGY

(A constituent Institute of Manipal Academy of Higher Education)

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# PERCEPTIVE: AN ENTERTAINMENT RECOMMENDATION SYSTEMS

Ву

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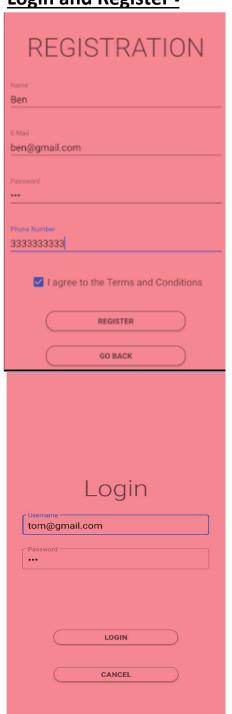
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Under the Guidance of

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## Login and Register -



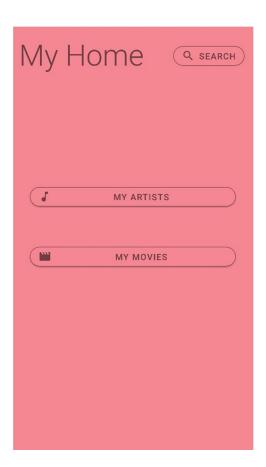
This enters the registration details into the database.

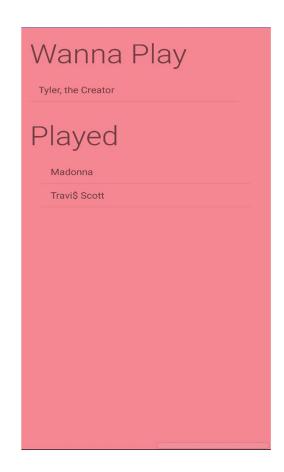
```
TinyDB tinydb = new TinyDB( appContext this);
ArrayList<Object> userdata = tinydb.getListObject( key: "userdata", user.class);

for(Object objs : userdata) {
    user temp = (user)objs;
    if((temp.email.equals(enteredUsername))&&(temp.password.equals(enteredPassword))) {
        userid = temp.id;
        flag=1;
        Intent i = new Intent( packageContext this, homePageActivity.class);
        startActivity(i);
    }
}

if(flag==0) {
    etu.setText("");
    etp.setText("");
    etp.setError("Invalid Credentials");
    etu.setError("Invalid Credentials");
}
```

This validates the login credentials entered with the database.



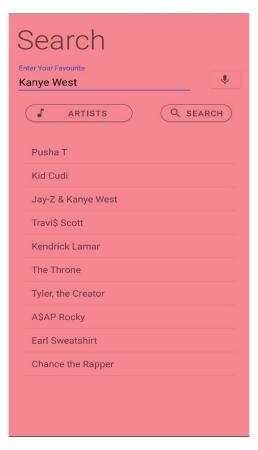


# **Homepage and Favorites-**

```
try {
   Log.d( tag: "aaa", msg: "Starting...");
   artist str = artist str.trim();
   artist str = artist str.replace( target: " ", replacement: "%20");
   artist str = artist str.replace( target: "&", replacement: "and");
   String lastfm = "http://ws.audioscrobbler.com/2.0/?method=artist.getinfo&artist="+artist str+"&api key="+api key+"&format=json";
   URL urlForGetRequest = new URL(lastfm);
   String readLine = null;
   HttpURLConnection conection = (HttpURLConnection) urlForGetRequest.openConnection();
   int responseCode = conection.getResponseCode();
   if (responseCode == HttpURLConnection.HTTP_OK) {
       BufferedReader in = new BufferedReader(
               new InputStreamReader(conection.getInputStream()));
       StringBuffer response = new StringBuffer();
       while ((readLine = in .readLine()) != null) {
           response.append(readLine);
           data = data + readLine;
        } in .close();
       JSONObject myResponse = new JSONObject(response.toString());
        JSONObject myResponsel = new JSONObject(myResponse.get("artist").toString());
        a1.name = myResponsel.get("name").toString();
        JSONArray imagesArray = (JSONArray) myResponsel.get("image");
        JSONObject image = (JSONObject) imagesArray.get(2);
        a1.image url = image.get("#text").toString();
       JSONObject bioResponse = new JSONObject(myResponsel.get("bio").toString());
        a1.summary = bioResponse.get("summary").toString();
        JSONObject statResponse = new JSONObject(myResponsel.get("stats").toString());
        a1.listeners = statResponse.get("listeners").toString();
```

This fetches artist's name, description, listeners/ratings and their image.

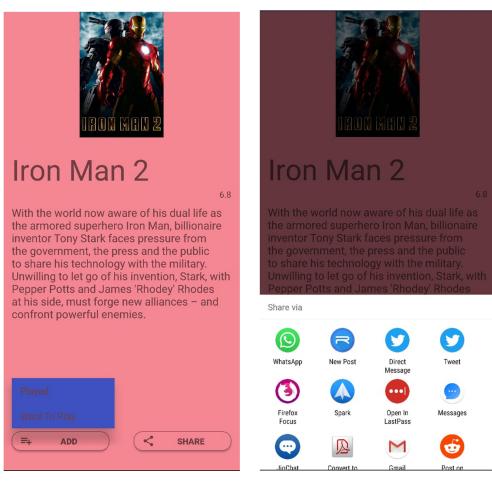
#### Search page -



```
try {
   String lastfml = "http://ws.audioscrobbler.com/2.0/?method=artist.getsimilar&artist=";
   String lastfm2 = "&limit=10&api key=d4d8ce6b7f878903fd54602d00a66f0d&format=json";
   topic = topic.trim();
   topic = topic.replace( target: " ", replacement: "%20");
   topic = topic.replace( target: "&", replacement: "and");
   String lastfm = lastfml + topic + lastfm2;
   URL urlForGetRequest = new URL(lastfm);
   String readLine = null;
   HttpURLConnection conection = (HttpURLConnection) urlForGetRequest.openConnection();
   int responseCode = conection.getResponseCode();
   if (responseCode == HttpURLConnection.HTTP OK) {
       BufferedReader in = new BufferedReader(
               new InputStreamReader(conection.getInputStream()));
       StringBuffer response = new StringBuffer();
       while ((readLine = in .readLine()) != null) {
           response.append(readLine);
           data = data + readLine;
        } in .close();
       JSONObject myResponse = new JSONObject(response.toString());
       JSONObject myResponse1 = new JSONObject(myResponse.get("similarartists").toString());
        JSONArray artistsArray = (JSONArray) myResponsel.get("artist");
        for (int i = 0; i<artistsArray.length(); i++) {</pre>
           JSONObject artist = (JSONObject) artistsArray.get(i);
           arr[i] = artist.get("name").toString();
        }
```

This provides us with similar artists or movies based on the search.

### Results and share page-



This activates voice search functionality.

```
if (type == 1) {
    fetch_details_artists fda = null;
    fda = new fetch_details_artists(arr[position]);
    fda.execute();
    try {
        Thread.sleep( millis: 2000);
    } catch (InterruptedException e) {
        e.printStackTrace();
    }
    Intent i = new Intent( packageContext: searchActivity.this, DetailsActivity.class);
    i.putExtra( name: "Name", a1.name);
    i.putExtra( name: "Desc", a1.summary);
    i.putExtra( name: "Extra", a1.listeners);
    i.putExtra( name: "Img", a1.image_url);
    i.putExtra( name: "Img", a1.image_url);
    i.putExtra( name: "Mode", value: "1");
```

This calls the API for searching and sets the data.

```
public void putListObject(String key, ArrayList<Object> ol
    checkForNullKey(key);
    Gson gson = new Gson();
    ArrayList<String> objStrings = new ArrayList<<>>();
    for(Object obj : objArray){
        objStrings.add(gson.toJson(obj));
    }
    putListString(key, objStrings);
}
```

This uses shared preferences to store the list object.

