

## **Project Requirements**

### **Description**

The project is to be carried out individually. Themes will be allocated on [online.ase.ro](http://online.ase.ro). A solution for the Android mobile platform should be implemented using Java.

### **Submission Requirements**

The project is individual and must be uploaded by the end of the 13th week on the platform <http://online.ase.ro>. The assessment will be done according to the following scale:

### **Scale**

1. Defining a minimum of six activities, populated with appropriate visual controls; (0.5 pts.)
2. Use of various controls (Button, TextView, EditView, CheckBox, Spinner, ProgressBar, SeekBar, Switch, RatingBar, ImageView, DatePicker, or TimePicker); (1 pt.)
3. Use of at least one data entry form; (0.5 pts.)
4. Transfer of parameters (custom objects and primitives) between at least two activities; (0.5 pts.)
5. Implementation of a custom adapter (at least three different visual controls); (0.5 pts.)
6. Implementation and use of asynchronous operations; (0.5 pts.)
7. Use of classes for accessing external resources (from the network); (0.25 pts.)
8. Processing JSON files. Files must contain at least 3 nodes arranged on different levels. Each node must have at least 3 attributes; (0.75 pts.)
9. Use of preference files. Both writing and reading; (0.5 pts.)
10. Creating a SQLite database with at least two tables linked together. Implementation of DDL operations; (0.5 pts.)
11. Implementation of DML operations. For each table, at least one data access class should be implemented including methods for insertion, modification, and deletion. All methods must be called; (1 pt.)
12. Defining a minimum of two reports (displaying in activities) of information retrieved from the database. Reports differ in terms of structure; (0.5 pts.)
13. Use of two-dimensional graphics elements, with values retrieved from the database (1 pt.)
14. Processing image elements from different sources (static images, retrieved through the network, loaded from the mobile device's gallery, retrieved from databases); Images must be sourced from at least two sources; (0.5 pts.)
15. Styling the mobile application (for example, create a new theme in the styles.xml file or modify the font, colors of visual components); (0.75 pts.)
16. All strings used at the interface level should be retrieved from resources; (0.75 pts.)

**Deductions**

- 2 points - non-compliance with project submission requirements (mode of sending files, archive naming, archive structure, not deleting build directories).

**Minimum Conditions for Passing:**

- The application must be functional.
- The application must address the theme of the project.
- Achieving a minimum score of 5 points out of 10.