

# Device Integration Engineer

## Entrance Test

### **Guideline:**

- Give your solutions in a PDF file.
- Give the total time you spend for the whole test in the answer file.
- The implementation can be pushed to your own public git repository, remember to add repository reference link in your answer file.
- If you cannot give complete solution, you can express your approach, ideas.
- Please do not hesitate to contact us if you have any further questions.

**Duration:** 3 days, you can send as soon as you done.

1. Design and implement Android Files system management application. The application must have the list of features below:
  - Display the list of files and directories in the External Storage.
  - "Quick Access": display files opened (by this app) in last 2 days.
  - Browse the directories.
  - Copy / move / delete / create directory / file(s).
  - Have ability to undo/redo the action.
  - Display the file/directory information:
    - Created Time.
    - Last Modified Time.
    - Last Opened (by this app) Time.
    - Size (files count and storage used for directory, storage used for file).
  - Sort files/directories by:
    - Name.
    - Timestamp (Created / Last Modified / Last Opened Time).
    - File type.
  - Log all users' operations (browse / create / copy / move / delete / sort).
    - Have an option to config the log service to print out to console (logcat) or file.

### **Note:**

- Using 3rd party libraries is not allowed.
2. Document about your application in (1):
    - Structure of project, application.
    - User guide.

--- End of The Test ---