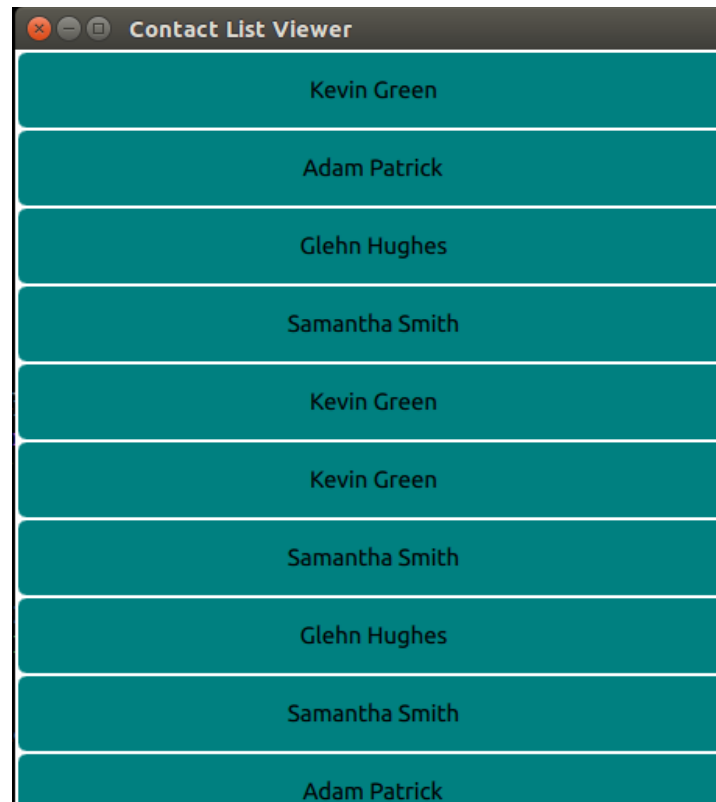


Hi dear colleague,

We'd like to share details on technical task: simplified, though close to our real project needs. So imagine you're car driver and want to have convenient way to browse your phone contacts.



Usually there are underlying services which provide data for our UI screens (similar to shown above). Assume you have *ContactListProvider* class with possibility to get actual contact list from device. Absolute minimal valuable product would show contact list with names at the center of each cell.

Additional “nice to have” features (evaluate by yourself how many features possible to implement)

- Circle contact list pictures at the left side, you may use any available image assets
- Call function: by tap you call *ContactListProvider::call(id)* and indicate somehow active call
- Grid view switcher for our contact viewer (here contact pictures “must have”)
- Smart chunk-retrieving for long lists (e.g *ContactListProvider* has *getChunk(index, size)*)
- Favorites: possibility to add to favorites (use star/plus button) and show only favorites
- Local filter: text field by using which we may filter out contacts (great if “on the fly”)
- [Alphabetical jump](#): service provides *getAvailableLetters* chars and sorted contact list
- Expert level: combine alphabetical jump with previously described chunk retrieving

Ideal tech-stack would be (but not limited to): *Qt + QML* (or *QtWidgets*, *PyQt*, <you name it>)

References:

- <https://doc.qt.io/qt-5/qtquick-modelviewsdata-modelview.html>
- <https://qmlbook.github.io/>