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Proposal

Make LibreOffice Viewer better

Hello.
My name is Timur. I live in Moscow. I am second year student pursuing bachelor's degree. I love programming and books. I like to create important things. And I want to work with you this summer.

I don't like long abstract texts. And I don't want to make another one. I also value both mine and your time. So I will be as tense as possible.
In addition to above statement, you may notice that my schedule is very rough. This is not because I lazy. I made it on purpose. I don't believe that long-term plans are achievable. Instead, I want to focus now on main features and discuss them as much as necessary, not more. We can easily detail everything later.

I am developing Android applications for over a year now. I like how single person can create working application from a scratch. I bet that together we can make LibreOffice View much better.

What I want to achieve? There are several crucial bugs that should be fixed. Also, I would like to work on improving app UI. More details are available below.

Why should you choose me? I guess that I am very appropriate for this project. I know Android and specifically LibreOffice Viewer from both user and developer perspectives. I know what could be and should be done in a reasonable time. I already work for open source project, check it out. This could be considered as a sample of my code, thought it was written a year ago (I am coding a little better now :]).
I also love participating in programming contests. I took part recently in ACM Moscow Quarterfinals. Right now I participate in a contest hosted by VK.com with my friend. We passed qualification successfully and ready for the next round.
Not to mention my experience with Java, Android SDK, git and Redmine.

What you will get? The application that will be more easy and enjoyable to use. You (and me) will hopefully have fun working on this. Speaking about future, chances are we will work more outside of GSoC project.

Why I need you? Why can't I just commit patches without a Google Summer of Code program? Because I want to learn. Learn not only from boring tutorials and reference guides. I want to speak with other developers, I want to share them my thoughts and get feedback. This project would be very helpful to my future career too.

Unfortunately, **I didn't complete** any EasyHack yet at the time of writing. I hope that there will be patch from me when you read this. Anyway, I am committing myself to complete this task before April, 1.

Proposal technical details

First, I don't want to flag items as optional/required. I believe that importance of features can be reevaluated in the development process. Instead, I prioritized the both bug list and UI propositions. The earlier item occurs in the list, the more it important and should be done more quickly.

Some information about bug list. I took the list of most annoying bugs as a basis. All bugs were reproduced on the last stable release. I tried to pick most challenging and important bugs.

- Bugs
  - [Bug #91826](#) Internal document links treated as external ones
    - Solution ideas: find the place where link click handled: check whether the link points to something in the document or the website. For the inner links, navigate to appropriate place. For the website links treat them as now.
  - [Bug #91304](#) Long tap on text in shape does not select it
    - Solution ideas: fixing this will likely involve [bug #92346](#). In case figures and text taps handles in separate places, we can add long tap listener to a figure. In case there is a text in tapped area, select it.
  - [Bug #85847](#) Image of large document takes lot of time to load
    - Solution ideas: some ideas are already introduced in the bug page. We can add tiling system to cache only parts of the documents.
  - [Bug #89175](#) Can not open password protected files
    - Solution ideas: first, we should find way to know whether the file is encrypted or not. In case it is, we should provide some UI to allow user to notify that file is secured and password should be entered to open file. Finally, we need to find to way to decrypt file. Possibly an external library should be used (may be there is already something appropriate in the project).
  - [Bug #90670](#) Resource files belong to apk
    - Solution ideas: seems easy. Examine resource folder to get all res files and move them.

- UI
  - Redesign NavigationDrawer and ActionBar menu. The latter contains too much items. Some of the may be moved to Drawer. The Drawer itself should be refreshed. Both ActionBar menu and Drawer should be well-structured and easy-to-navigate.
  - Improve FileManager layout. The icons are too big. Thus even on bigger screens the navigation is not very comfortable.
  - Handle long tap more efficiently. For now long tap opens dialog with only 2 options, one of which is "Open". I suggest adding multi selection feature for long tap action. Alternatively, open file or directory on long tap as it the usual one. In this case we can move "Share" feature to the document view window at ActionBar.
  - Redesign editing toolbar. Although this feature is marked as experimental, some improvements could work nice. For example, ActionBar in this mode contains too much items. Maybe make another toolbar for this purposes.

Schedule

Date	Stage
22 April	Get acceptance and contact mentor to get first details
23 April — 30 April	Set up workplace for developing
1 May — 10 May	Get details about project structure
11 May — 22 May	Investigate bug fixing ideas and researching API details.
23 May — 19 June	Work on bug fixes (writing good code with tests)
20 June — 23 June	Prepare and submit mid-term evaluation (4 days before deadline)
24 June — 31 July	Work on UI modifications (writing good code with tests)
1 August — 15 August	Final code preparation (documentation, final refactoring, small improvements)
16 August — 20 August	Submit code sample and mentor evaluation (3 days before deadline)
21 August	Have a nice day!

Contacts

(by priority)

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In case of emergency, feel free to contact these people. They are both know that you can call.

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