App Specification

Content of the document: 1) General overview, 2) Technical overview, 3) Detailed description of content, 4) UI elements draft, 5) Data model, 6) Data.

Deadline: 31 October 2020

We are a Non Commercial organization. For now our goal is to create this simple local app as a proof-of-concept. Based on the result, the future of the project and financing scheme will be decided by heads of our department.

General overview

Application is a simple catalog of medicines. Users are able to search for medicines, according to certain rules (described in “Data model” section) and are able to mark them as favourite.

Technical overview

Android as a target platform.
Deliverables are 1) compiled APK and 2) git repository with source code (legal reasons). No play market publishing required.

Language: English, but with correct handling of cyrilic symbols as well.

No server connection or backend. Application should be able to retrieve and list dataset, with the opportunity to filter entries by certain predefined rules. Dataset can be included into an application as a simple DB or json file. The only change that users are able to do in data - mark specific medicine as favourite (may be handled by frontend, but save state). All other data is constant.

No login, no admin panel.

UI: Portrait mode for mobile devices expected.
You can use Material UI components or propose your own existing assets. Since the app is a medicine catalog, use of green-white color scheme is preferred.

Detailed description of content

1. The App consists of 2 pages:
    a. **Home Page:**
        i. Home screen has a bottom bar with **two tabs**
            1. Catalog Tab:
               Lists the medicines with title, manufacturer and active ingredient. On clicking a medicine the **Medicine Description Page** should open with the details of the medicine.

2. Favorites Tab:
   Lists the medicine that the user has starred or favorited. Also shows a warning if different medicines cannot be taken together, based on predefined rules.

ii. Home screen should have a search bar on top with filters to search medicines accordingly.
    1. Filters
       Filters can be present in the form of a sidebar, or as part of expanding the search bar.

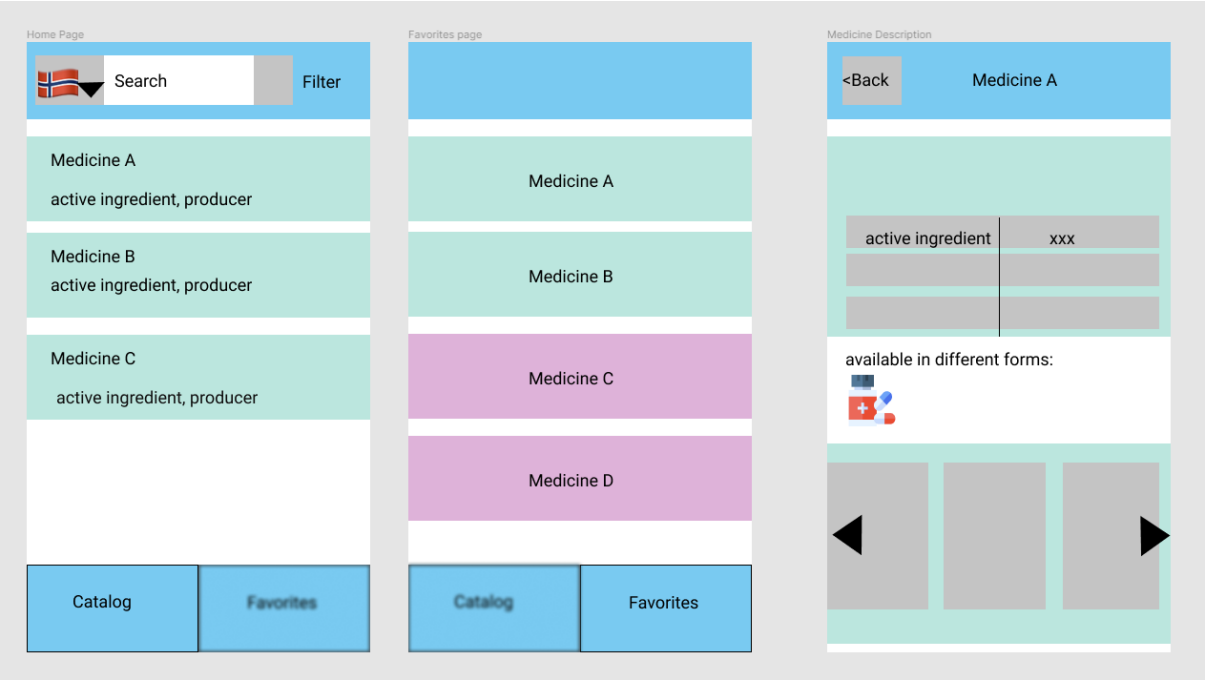
        a. User is able to narrow the category of medicine
        b. User is able to choose the destination country in dropdown menu, **located next to search bar**
        c. User is able to specify usage (example one usage of Dafalgan is against fever here fever would be a category the user could chose)
        d. Users are able to choose a form of medicine (liquid, tablets, etc.)
    2. Search
       For search you have to select region and name of medicine
        a. Search results provide you with a list of similar medicines from selected region.Result entry show you name, active ingredient and producent
        b. Show previous searches (before typing in anything)

iii. Home screen should have a Settings button (maybe next to the search bar), which should open the Settings page.

b. Medicine Description Page:

i. Back button to go back to **Home Page**
ii. Name of medicine as a page title.
iii. Button to add medicine as a favorite.
iv. “Table”, that contains information about medicine from data, including name, active component,dosage form, producer …
v. Visual representation of available forms of medicine
vi. After the description when scrolled down a carousel of similar drugs

UI elements draft



Data model:

Naming of data fields is a sample.

In search it is mandatory to select country (linked with “country_id” and shows “country_title”) in dropdown and type text into the search bar. Search **is not** case-sensitive.

Linking rules:

1) **Search results selection rule:**
If “title” in DB == text in search bar => show all medicines with same “ingredient_group_id” in search results

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Example: country “India” selected in dropdown and text in search bar is “Inhalipt”.
1. app search for medicine with “title” == “Inhalipt”.
2. App lists all medicines with same “ingredient_group_id” && “country_id”, as DB entry with “Title” == “Inhalipt”

User can add additional filters by “form” (should match one of the form) and “category_id”

2) If more than one medicine is in the favourite list (based on “is_favourite” == true) and has the same “compatibility_id” - show warning.

Description, Producent, active ingredient used only in visual fields

Data:

Medicine table dataset would be provided. (Not more than 15 medicines for initial MVP app)

Country data (country_id, country title):
(1, USA); (2, India); (3, Belarus); (4, Switzerland).

Form set data:
(1,2,3,4) linked to “tablets”, “pills”, “liquid”, “injections” in frontend respectively