# Phone Book Web app

## Operations User can do

- Add a contact
- Remove a contact
- Update a contact
- Search contact
  - By name (partial name can also be searched)
  - By phone number
  - By email
  - Add pagination with default 4 results per page
  - Search results should be sorted alphabetically (by name).

#### Contact

- Will have a Name (required)
- Will/Can have multiple phone numbers (should have at least 1 phone number)
- Will/Can have multiple emails
- Will/Can have single Date of birth (not mandatory)

#### **Constraints**

- Two contacts **cannot** have same phone numbers
- Two contacts can have the same emails.

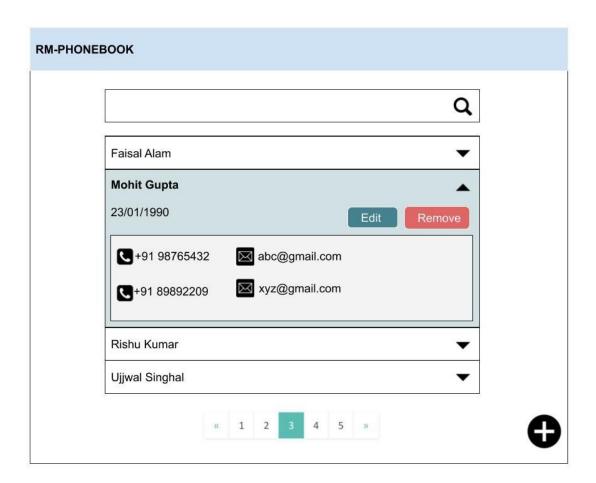
#### Notes:

- 1. Use Node.js(prefered)/ PHP
- 2. You can use database of your choice
- 3. Using Git with proper commit and README file is a plus.
- 4. **Preferably, deploy your app** somewhere so that we can open your webapp and test it. Some eg. places you can deploy is:
  - a. Digitalocean
  - b. 000webhost (for php)
  - c. Heroku
  - d. Gcp
  - e. Aws
  - f. Or as per your convenience.
- 5. A sample design is given below. Try to make it according to that or better.
- 6. If you want to add something more in design you are free to do it. Just mention your additions in the README file of your git repository.
- 7. Focus on completing the basic assignment, then deployment.

### Sample Design

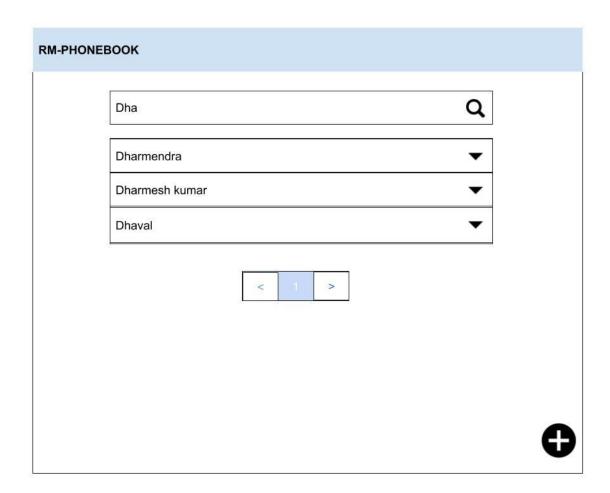
## 1. Home Page

- Search Bar will be used to filter contacts
- By default all contact will be appear in alphabetical order [A-Z]
- To see the details of a contact, one can click on dropdown icon which will open collapsible container which will display all mobile number(s) and email(s)
- Inside collapsible container we have edit and remove buttons
- User can click on **plus button** below to add new contact
- And there are pagination buttons for navigation



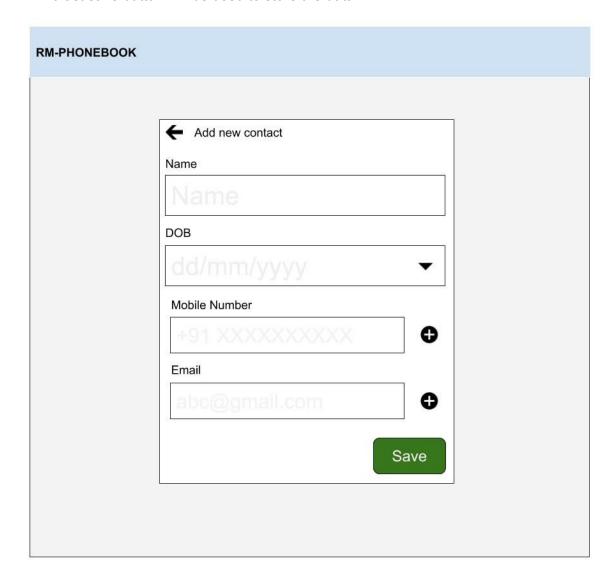
#### 2. Search

- Once user have added a contact he/she should be able to search them
- If a user type "Dha" all name starting with "Dha" should be displayed below in alphabetical order



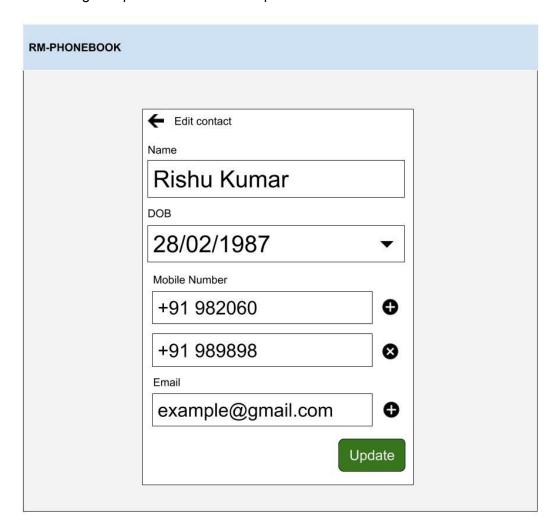
#### 3. Add new contact

- Add new contact will have name and at least one mobile number as a required field
- Users can add multiple phone numbers and email IDs by clicking on the **plus button**
- Save button should be clickable only when all required input fields have been filled
- At last save button will be used to store the data



## 4. Edit

- Users can edit contact's data by clicking on the edit button on the collapsible container.
- At the time of editing user can add and update mobile number(s) and email id(s)
- User can remove added mobile email field) using cross button
- Parent/main/first mobile and email field should not be removable
- Clicking on update button should update the data of the contact



## For any doubts contact:

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