AngularJS – ngStorage Demo

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1. <u>DESCRIPTION</u>

i. **SUMMARY**

The Phonebook Management Application is a Single-page Web Application built using AngularJS, Node with ExpressJS, a library called ngStorage for persistent storage and a responsive layout.

Web Services for interactions with the Phonebook were built to support browsers that did not support persistent storage. Upon first run, a request is made to the service to load all contacts in Local Storage using ngStorage with AngularJS, which is then used for CRUD within the Application. If Local Storage is not supported, the Application should continue to run by making requests directly to the server.

The Phonebook Application will display all contacts in a table which can be sorted by clicking upon any of the columns. The "Add" button allows you to enter details of a new Contact, which is saved in the browser storage. Clicking upon the name or thumbnail of a contact will show the details of that Contact with a large image. The "Edit" and "Delete" options are provided on the table as well on the Contact details page. The form used to add a new Contact is the same form used for showing Details and Edit – just different states within the controller. Data in the form is validated using the API provided by HTML5 and Angular.

A simple "Sync" option is provided to update the server with the Local Storage while taking a copy of the existing contacts and synchronize the server with the offline storage.

This Web Application works well on a desktop as well as on mobile browsers.

2. <u>DEVELOPMENT ENVIRONMENT</u>

Compatibility Platform/OS independent, IE 9+, Firefox 3+, Opera 9.2+, Chrome, Safari 2.0.4+.

Resolution 320px width responsive web-view.

Layout
- HTML 5 (W3C compliant)
- CSS 3 (minified for improved page loading)

Development Server
Node.js 4.2.6
Express 4.14.0
Jade 1.11.0

Libraries
jQuery v1.12.4
jQuery UI v1.12.0 (to include keycode.js, widgets/datepicker.js)
AngularJS v1.5.8
ngStorage v0.3.10 (https://github.com/gsklee/ngStorage)

IDE/Tools
NetBeans IDE 8.1

Documentation
Microsoft Word

3. <u>INSTALLATION INSTRUCTIONS</u>

Once you have Node.js installed on your system, navigate to the `root` directory and run `npm start` to run the server. All dependencies have been included in the archived. You can then navigate to http://127.0.0.1:3000 from your favorite browser to access the application.

4. <u>SITEMAP</u>

i.   **RESTful Services (in JSON data format)**

/engine/contacts
> GET – Retrieves all Contacts
>
> POST – Create a new Contact

/engine/contacts/{contact_id}
> GET – Fetch a Contact with the ID parameter
>
> PUT – Update details of the Contact with value as ID
>
> DELETE – Deletes a Contact with ID value

/engine/contacts/check/{unique_param}
> GET – A service to check if another contact with the same Email ID and Phone Number is already in the database.

/engine/contacts/backup
> POST – Backup old "seed.json" to a backup filename and use the posted contacts as the new data source.
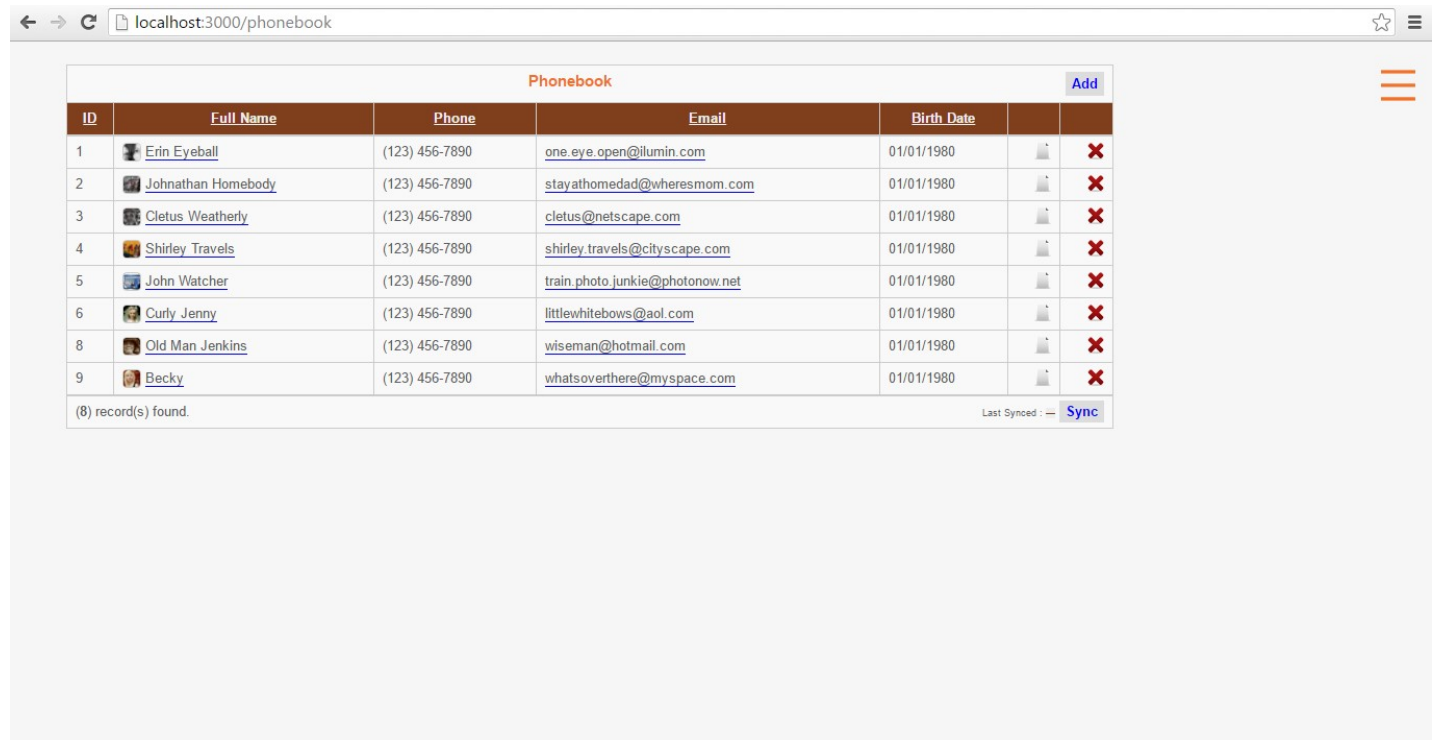
ii.   **PAGES**

/phonebook – Single-page Phonebook Application

/pages/about.html – About The Phonebook Management Application

/pages/documentation.html – Download this documentation

5. SCREENSHOTS
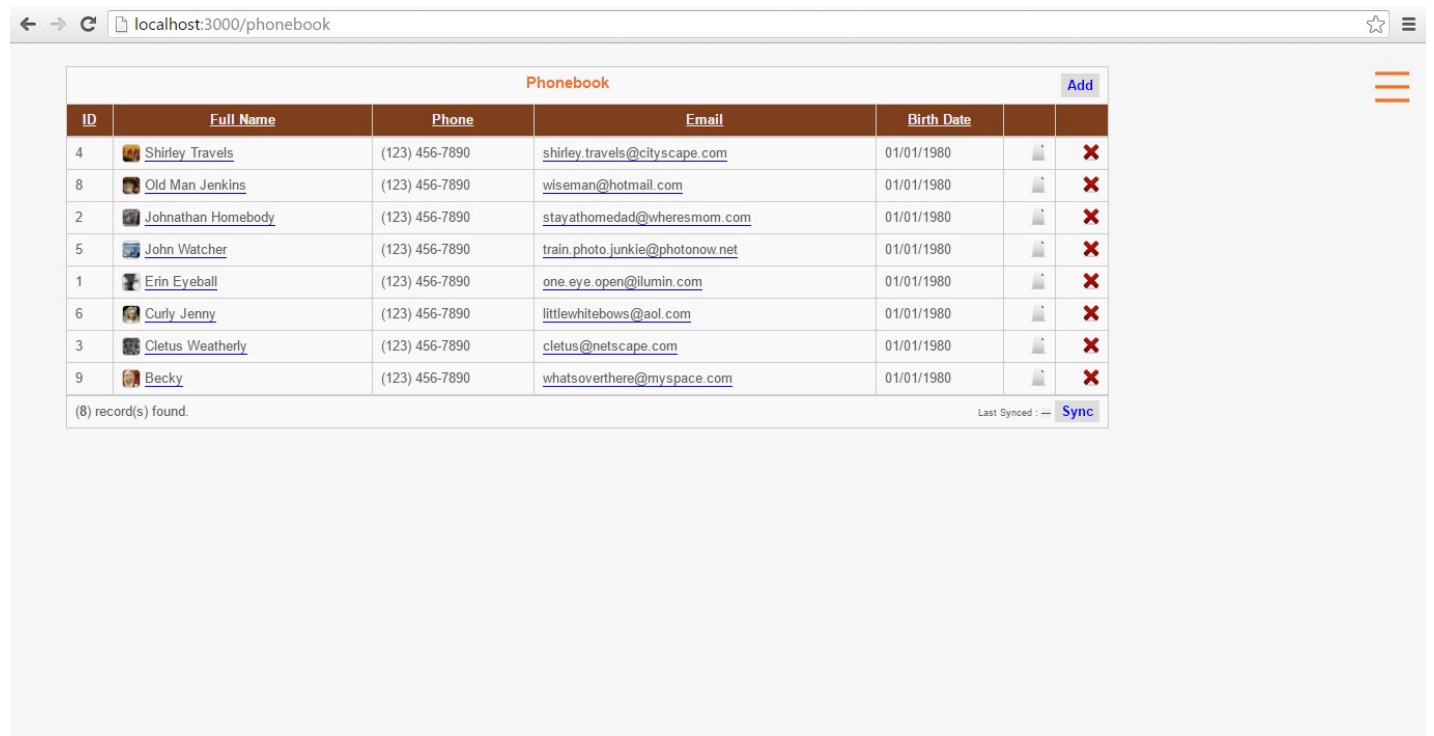
Figure 1 : Table showing all Contacts with Edit, Delete options

Figure 2 : Table showing all Contacts - sorted by Name

ID	6
Photo	
Name	Curly Jenny
Phone	(123) 456-7890
Email	littlewhitebows@aol.com
Birth Date	01/01/1980

edit | delete | cancel
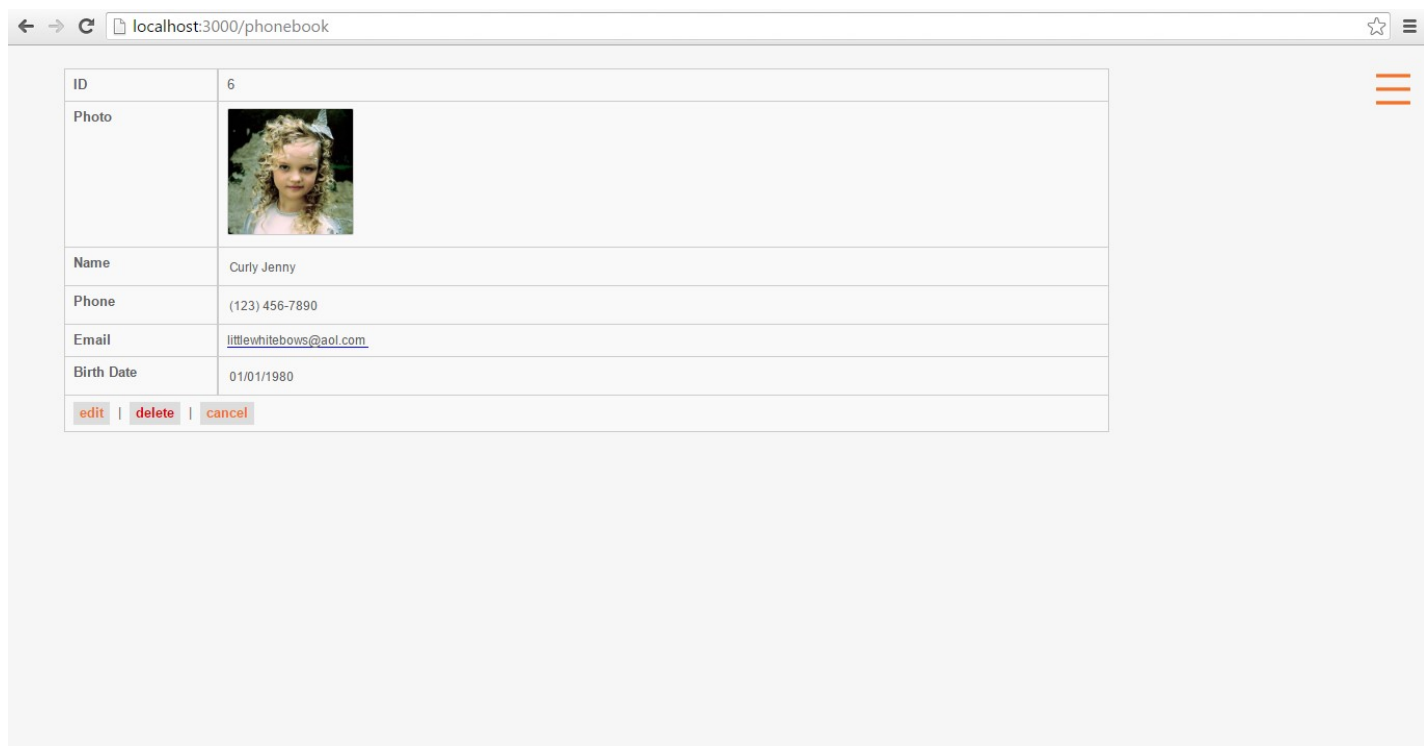
Figure 3 : Clicking a Contact will show all its Details with Edit and Delete options

Name	Demo
Phone	3334445556
Email	test@test.
Birth Date	09/10/2002

save | cancel

| ◀ | Sep ▼ | 2002 ▼ | ▶ |

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					
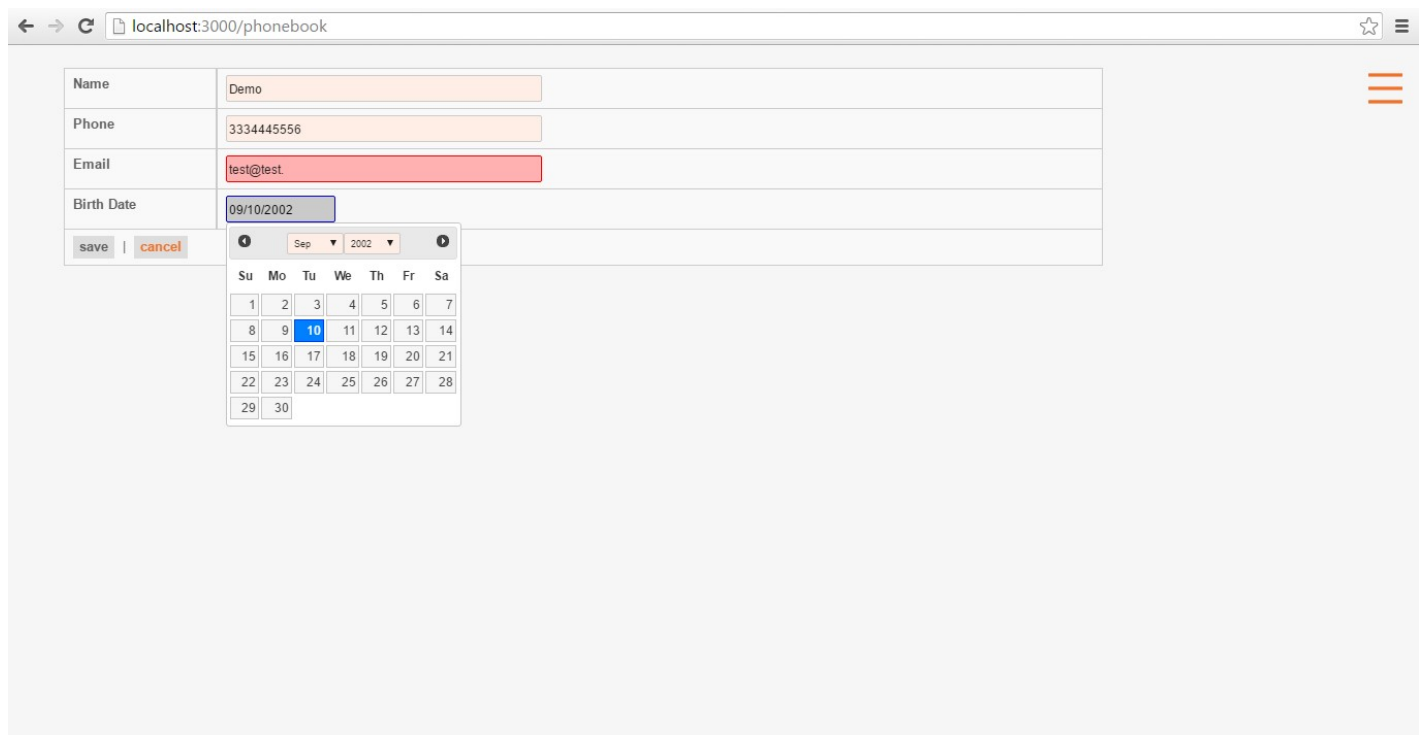
Figure 4 : Form to Add a new Contact

Figure 5 : Same form used to Edit the Contact Details
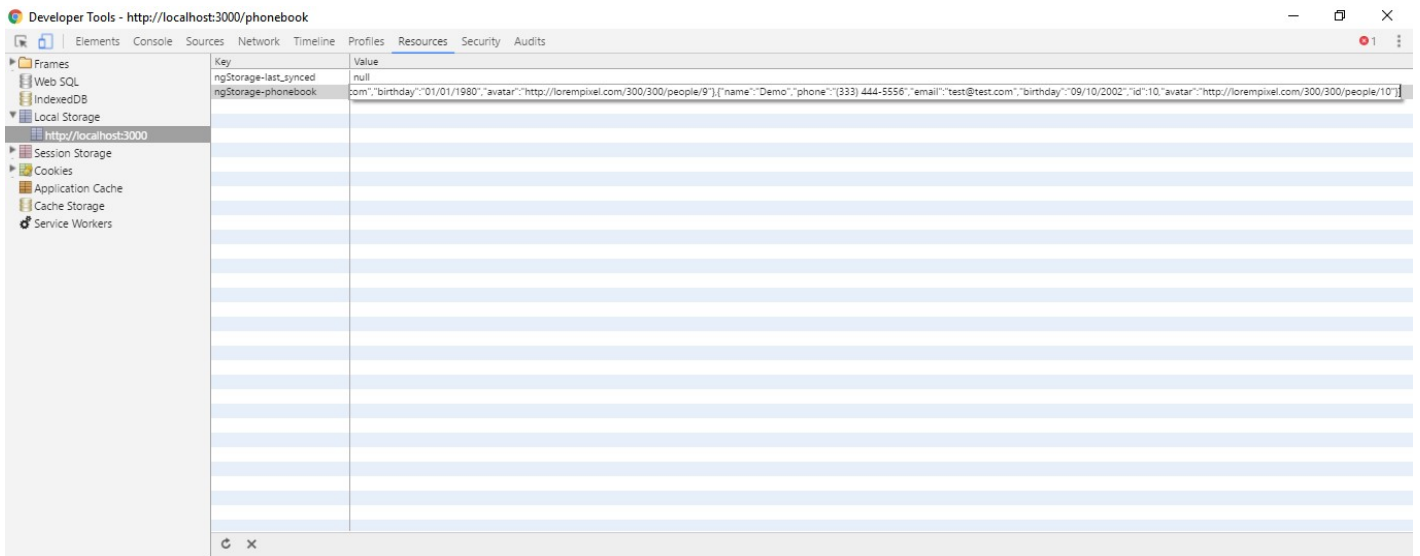

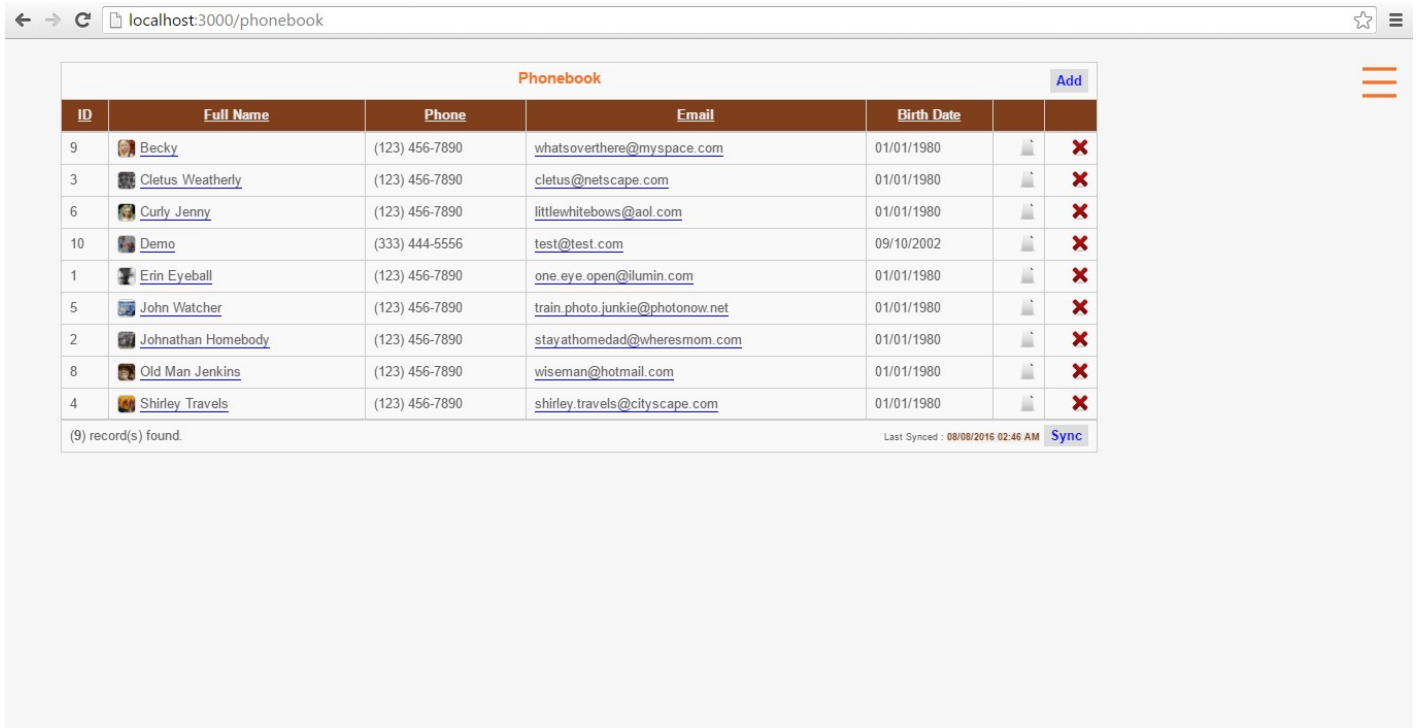**Figure 6 : Updated Local Storage**
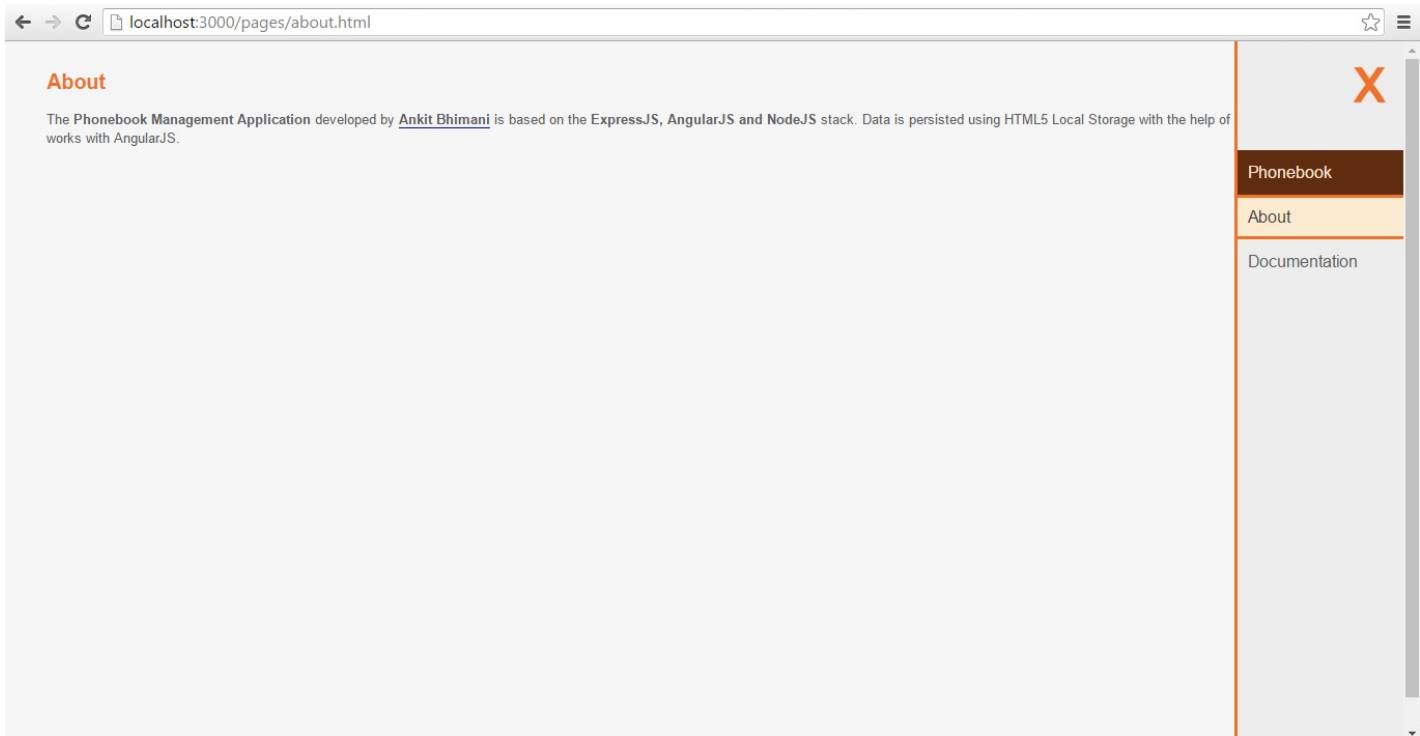
Figure 7 : Sync button updates the Last Sync Date

Figure 8 : Menu Navigation and a Static page

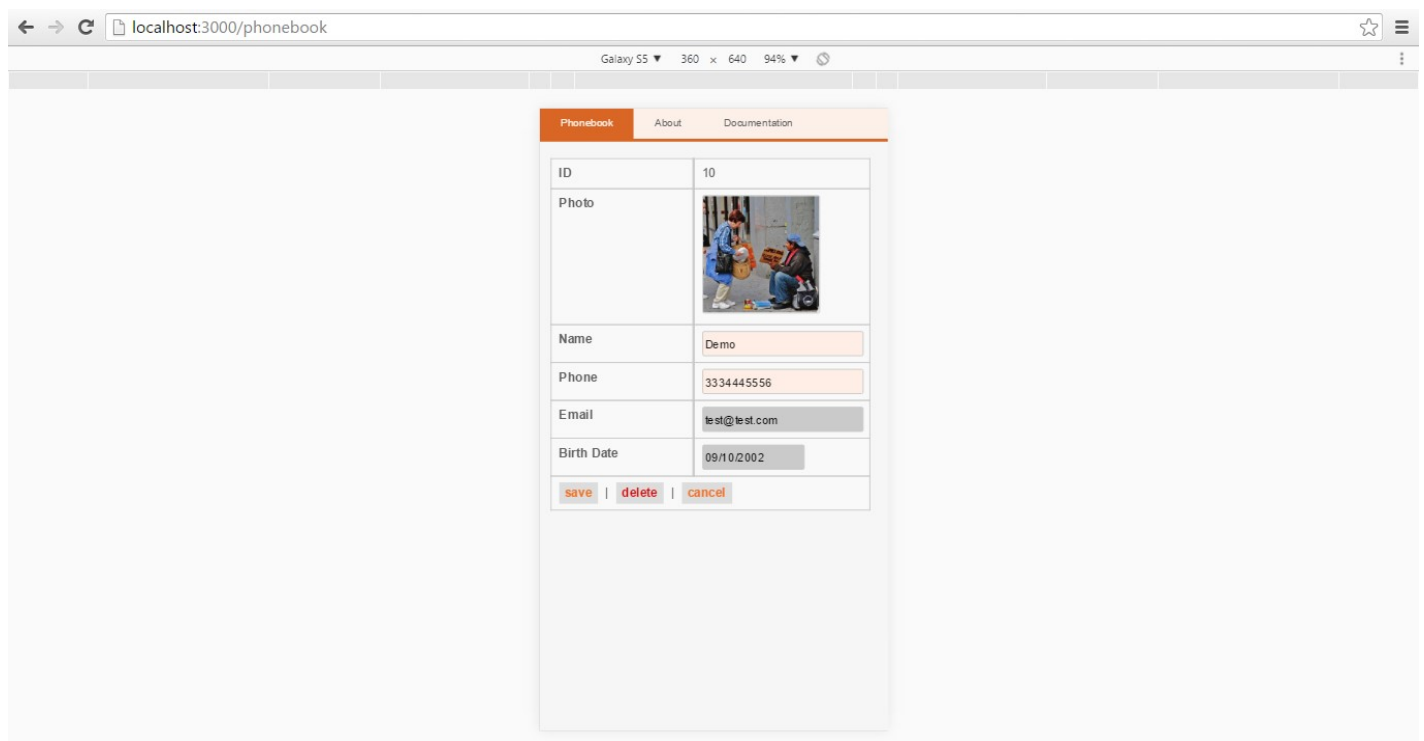**Figure 9 : Mobile View**