

i-Financial Demo Website Development



Background

We have a mock website at <http://dev.18degreeslab.com/ebook/> which is to be revamped. Note that this website and the website to be developed consist of **not more than 5 pages**. The **code for business logic is already complete and we will provide it**. Frontend work needs to be done by the developer. The kind of UI we need is shown further down in this document. Developer must have the following skills:

1. Django
2. Javascript
3. CSS
4. Html

Details

The current site, which we term as 'eMagz demo site', is to be converted into 'i-Financial demo site'. The current eMagz site caters for two functions:

1. New users can click the 'Register' button and register themselves. The current registration process is done in **three** steps:
 - a. User is prompted to download and install an app on their mobile device
 - b. User is prompted to create a username, password and enter email
 - c. A QR code is shown to user in a pop up window that user will scan using the app

Registration of new user is now complete.

2. Users who have completed the registration process in Step 1 can now login using their newly created username and password from the eMagz home page.

Once user has logged in, they see a collection of magazines and links to 'Logout' and 'Register another 2FA device'

The revamped i-Financial site also caters for the same purposes.

1. New user registration process is done in **two** (instead of previous three) steps:
 - a. User is prompted to download and install an app on their mobile device.
 - b. i-Financial page **automatically** creates a random username for the user [e.g user2145]. User password is always generated as 123456. User email is always generated as abc@def.com. A QR code is shown to user in a pop up window that user will scan using the app

Registration of new user is now complete.

2. Users who have completed the registration process in Step 1 can now login using their newly created username and password from the i-Financial home page.

Once user has logged in, they see i-Financial user page and links to 'Logout' and 'Register another 2FA device'. The functionality of these two links are same as eMagz's.

Work to be done

i-Financial site's business logic is same as eMagz's. So, existing functions/scripts/API calls can simply be reused. The major difference is registration process for i-Financial site which is done in two steps as opposed to eMagz's three steps, and UI changes for i-Financial site.

Development Environment

The new application must be able to run on Django version 1.6.1.

You are free to use any mobile friendly, responsive web site frameworks like Bootstrap.

Others

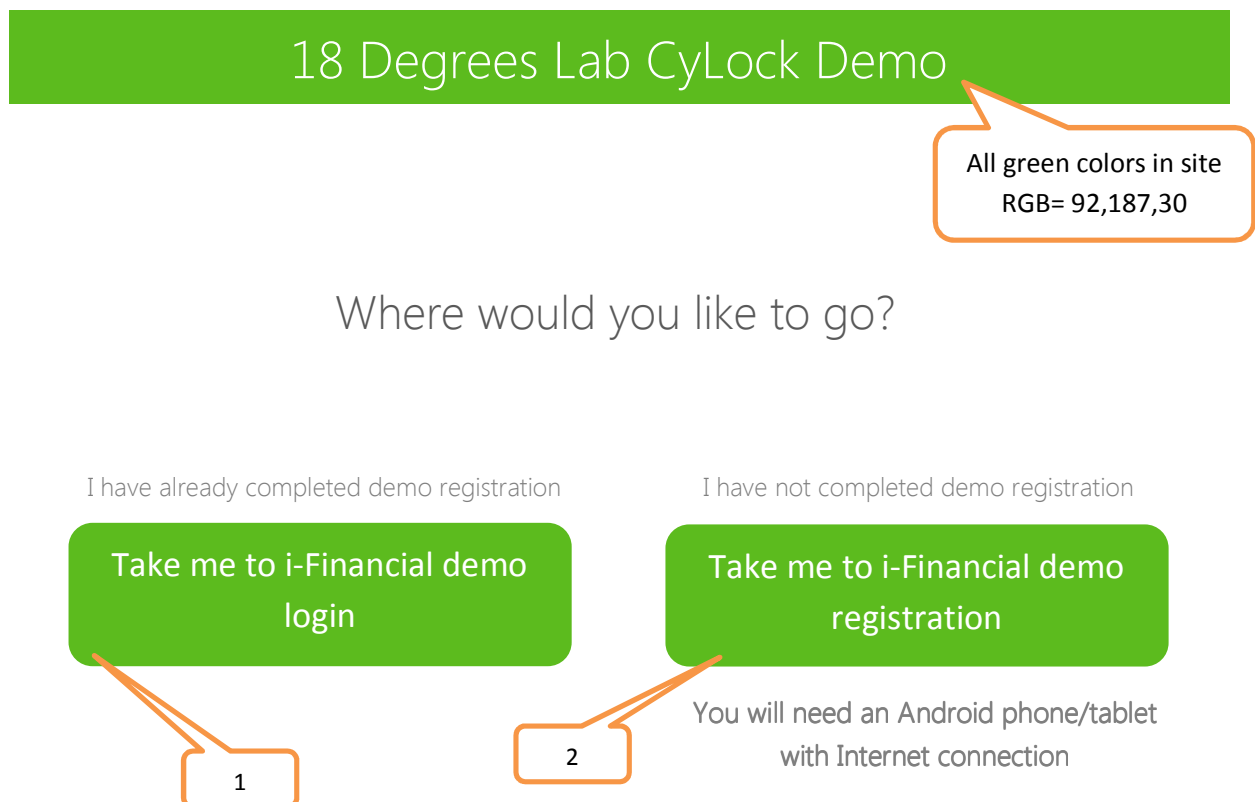
For better understanding, the developer is encouraged to visit <http://dev.18degreeslab.com/ebook/> and walk through the registration process by clicking the 'Register' button.

During the walkthrough, developer to register a new account with username userXXXX [e.g. user1234]. App install step can be skipped as app is not available in app store now. For email, developer can simply enter abc@def.com. Registration QR code scan step can also be skipped as developer will not have app.

Work to be done

Demo Home Page

This is the first page the user will see. Here we give new users option to register a new demo account.




© 2014 [18 Degrees Labs](#). All rights reserved. Design icons by [www.freepik.com](#), [www.flaticon.com](#) licensed under CC BY 3.0

i-Financial Home Page

Clicking on 1 brings this page:


18 Degrees Lab CyLock Demo

 Welcome to i-Financial

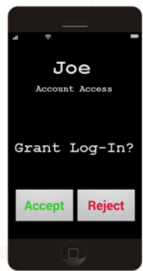
Username

Password

Login



Login to authenticate
on your device



Here at i-Financial, security is top priority. Your login is secured by CyLock Out-of-Band authentication.


Rest assured your account will not fall prey to password leaks and hacks.

© 2014 [18 Degrees Labs](#). All rights reserved. Design icons by [www.freepik.com](#), [www.flaticon.com](#) licensed under CC BY 3.0

i-Financial User Page

Clicking on **3** brings this page after successful authentication:

18 Degrees Lab CyLock Demo




4

Congratulations userXXXX!! Demo Complete.

Logout and Try Again

You have securely logged in using CyLock out-of-band mobile 2FA.



Register another 2FA device

5

8'

Forget expensive, insecure and cumbersome 2FA solutions like hardware tokens and SMS OTP. CyLock mobile Out-of-Band 2FA offers clear value proposition in terms of improved security, reduced cost and enhanced user friendliness. Let CyLock protect your apps and services from password leaks and hacks.

Find apps and services CyLock can protect

6

Learn advanced capabilities of CyLock

7

Get in touch

8

© 2014 [18 Degrees Labs](#). All rights reserved. Design icons by [www.freepik.com](#), [www.flaticon.com](#) licensed under CC BY 3.0

Demo Registration Page

Clicking on 2 brings this page:

The screenshot shows a registration page for the '18 Degrees Lab CyLock Demo'. The page has a green header with the title '18 Degrees Lab CyLock Demo'. Below the header, the text 'Download and install '18DL Demo App' from the app store now' is displayed. A 'Google play' button is shown, with callout 13 pointing to it. Below the button, the text 'Click here to show QR code to download app' is shown, with callout 14 pointing to it. A green-bordered box contains the text 'I have downloaded and installed the app', with callout 9 pointing to it. Below this box, the text 'A new tab has been opened in your browser with a QR code' is shown, with callout 10 pointing to it. Another green-bordered box contains the text 'I have scanned QR code and completed device registration', with callout 11 pointing to it. Below this box, the text 'Note your i-Financial demo username: userXXXX, password: 123456' is shown, with callout 12 pointing to it. A final green-bordered box contains the text 'Start Demo!!', with callout 13 pointing to it. The footer of the page contains the copyright notice: '© 2014 18 Degrees Labs. All rights reserved. Design icons by www.freepik.com, www.flaticon.com licensed under CC BY 3.0'.

18 Degrees Lab CyLock Demo

Download and install '18DL Demo App' from the app store now

13

Click here to show QR code to download app

14

I have downloaded and installed the app

9

A new tab has been opened in your browser with a QR code

10

I have scanned QR code and completed device registration

11

Note your i-Financial demo username: userXXXX, password: 123456

12

Start Demo!!

13

© 2014 18 Degrees Labs. All rights reserved. Design icons by www.freepik.com, www.flaticon.com licensed under CC BY 3.0

'Demo Registration Page' initially loads with Button 9 visible, rest are hidden.	
Button	Action
Clicking <u>9</u>	<p>The page should perform an asynchronous call to the server which performs the following logic:</p> <ol style="list-style-type: none"> 1. Generate a random username of format userXXXX [XXXX is random four digit number. E.g. user8001] 2. Create user using Django's authentication system's (*¹) create_user() with userxxxx and 123456 as parameters. For email use abc@def.com 3. Generate a registration URL (use the function get_reg_url() in example code emagz_user_reg.py) 4. Return these 2 data in a JSON string: <ol style="list-style-type: none"> a. the new username b. the registration URL <p>When the page receives the data from the server, it should do the following:</p> <ol style="list-style-type: none"> 1. Open a new tab which loads the registration URL 2. Update <u>12</u> with the created username 3. Reveal <u>10</u> and <u>11</u>
Clicking <u>11</u> reveals <u>12</u> and <u>13</u>	Show the randomly generated username and password in <u>12</u> .

*¹ - Django Authentication System - <https://docs.djangoproject.com/en/1.7/topics/auth/default/>

Button	Action
Clicking <u>4</u>	Same action as current eMagz 'Logout' button. Take user back to i-Financial Home Page.
Clicking <u>5</u>	Invoke the function get_reg_url() in example code emagz_user_reg.py, and open the generated registration URL in a new tab
Clicking <u>6</u>	Open a new window/tab to "www.18degreeslab.com"
Clicking <u>7</u>	Open a new window/tab to "www.18degreeslab.com"
Clicking <u>8</u> & <u>8'</u>	Open a new window/tab to "www.18degreeslab.com"
Clicking <u>13</u>	Same action as current eMagz "Google Play" button.
Clicking <u>14</u>	Same action as current eMagz 'Click here to show QR code for mobile access'