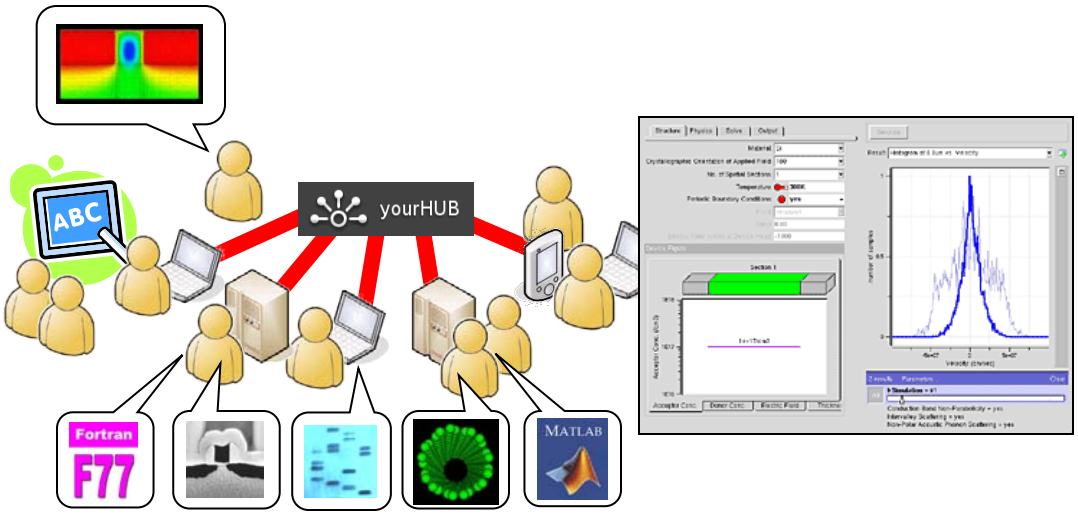
Uploading and Publishing New Tools

Michael McLennan

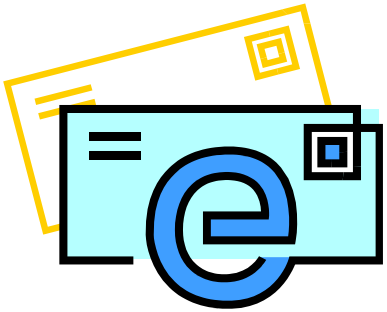
HUBzero® Platform for Scientific Collaboration

Purdue University



Why not just downloads?

1. Source code bundles



Hello,
I am grad student from Kazakhstan. Your tool not compile for me. I get errors. That's a not very nice.

Hey, can you help me?

2. Pre-compiled binaries

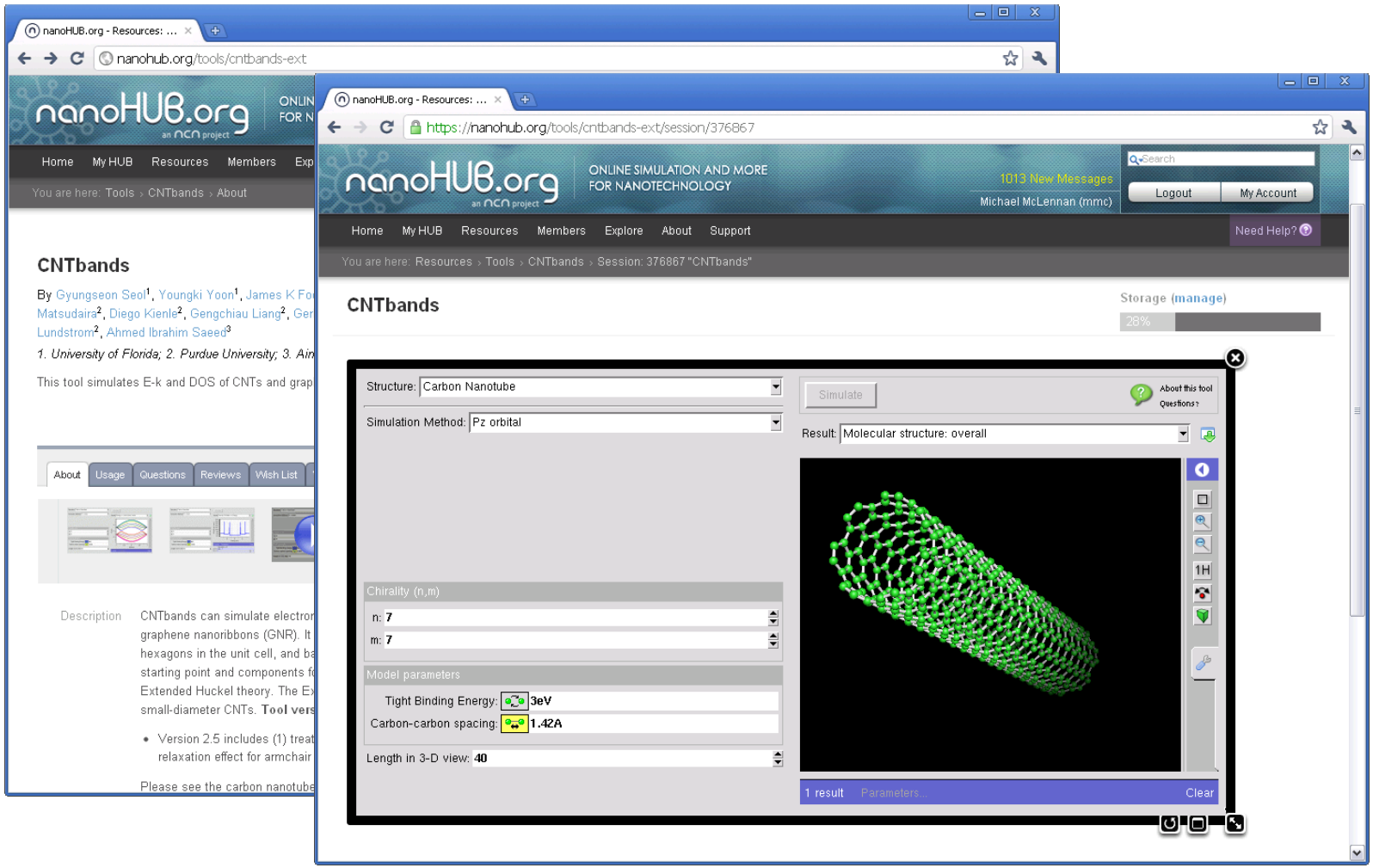

32-bit

64-bit

It doesn't work on my machine!

New version… Reinstall

Access tools online



Your Own Impact Story

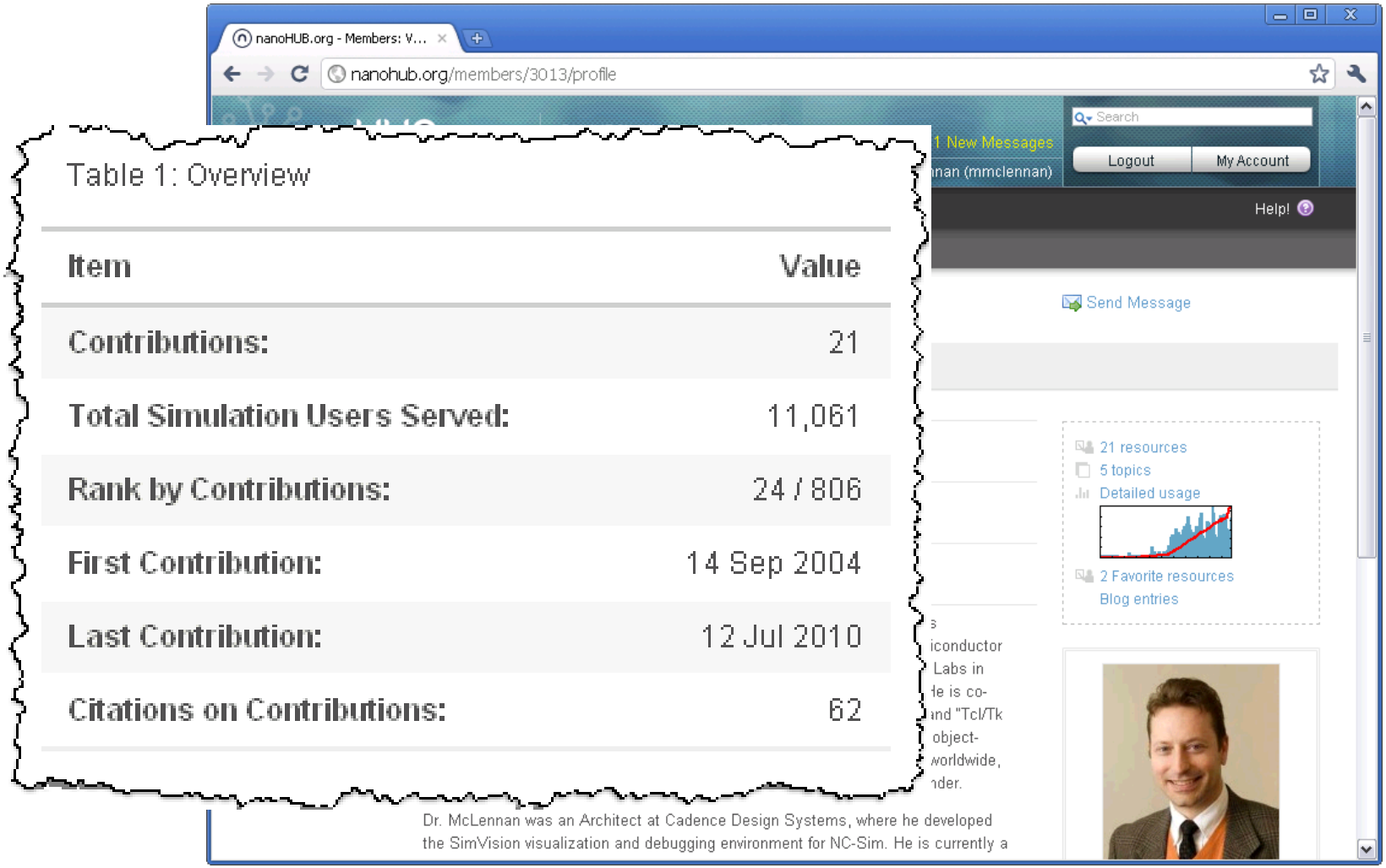
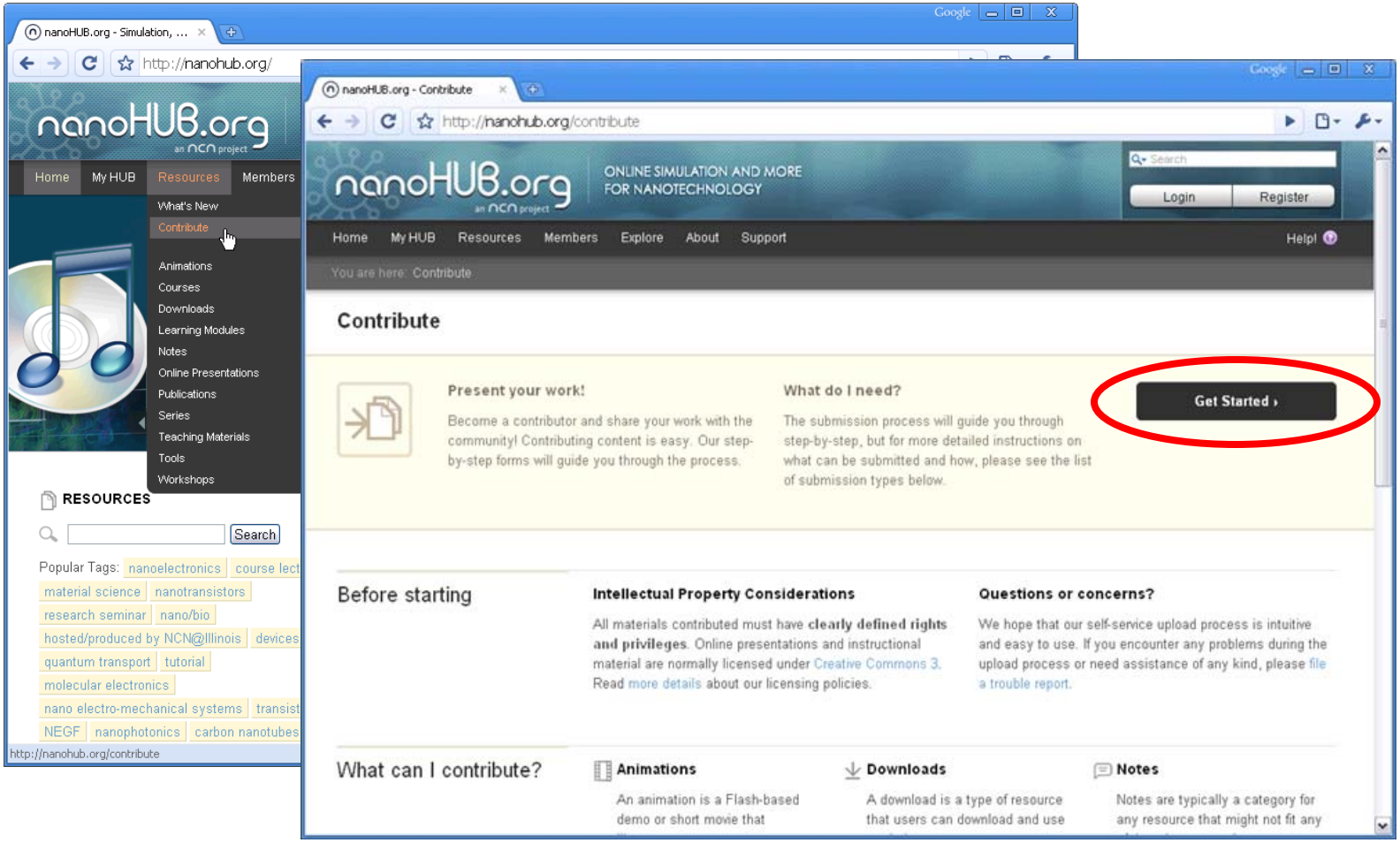


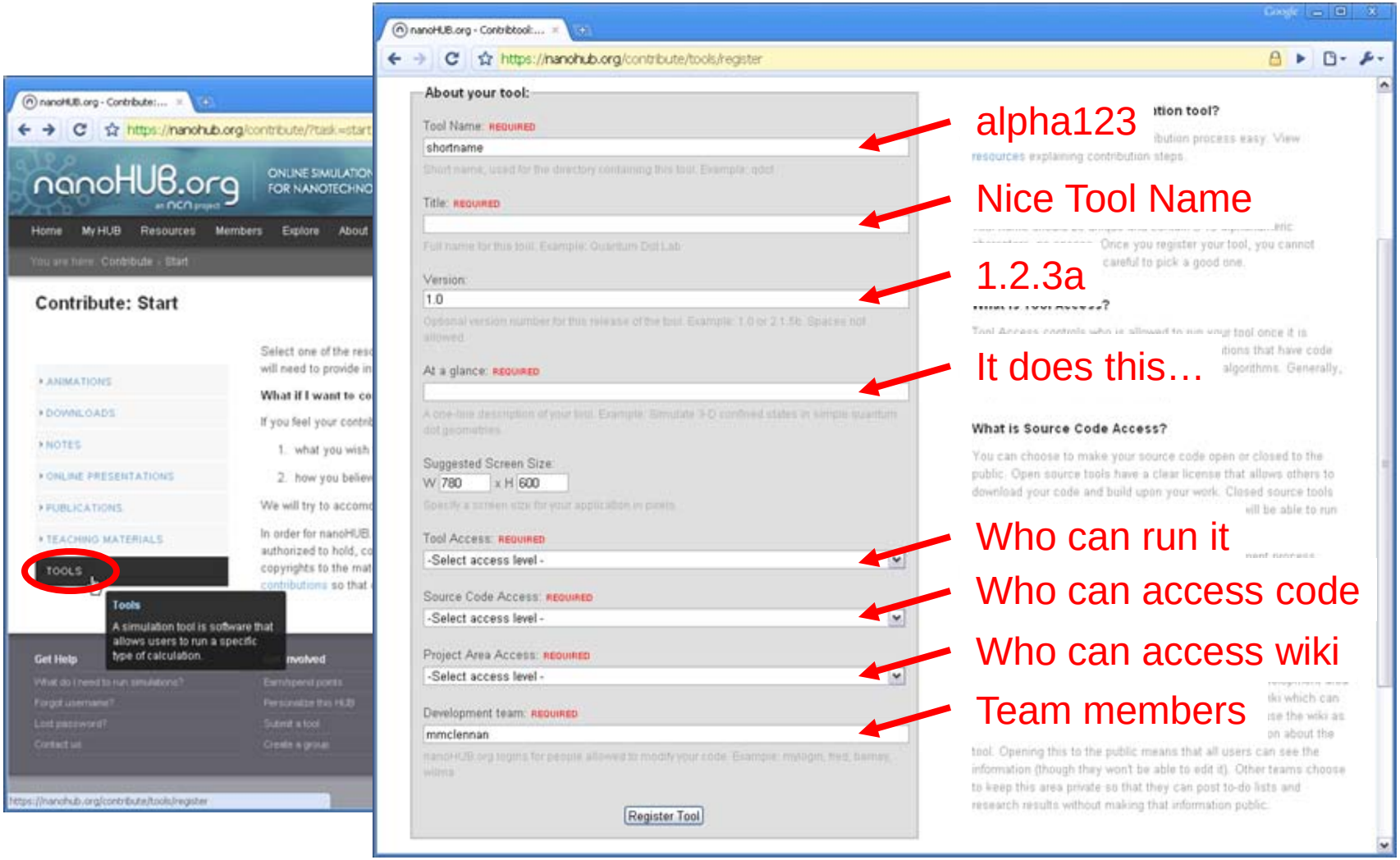
Table 1: Overview

Item	Value
Contributions:	21
Total Simulation Users Served:	11,061
Rank by Contributions:	24 / 806
First Contribution:	14 Sep 2004
Last Contribution:	12 Jul 2010
Citations on Contributions:	62

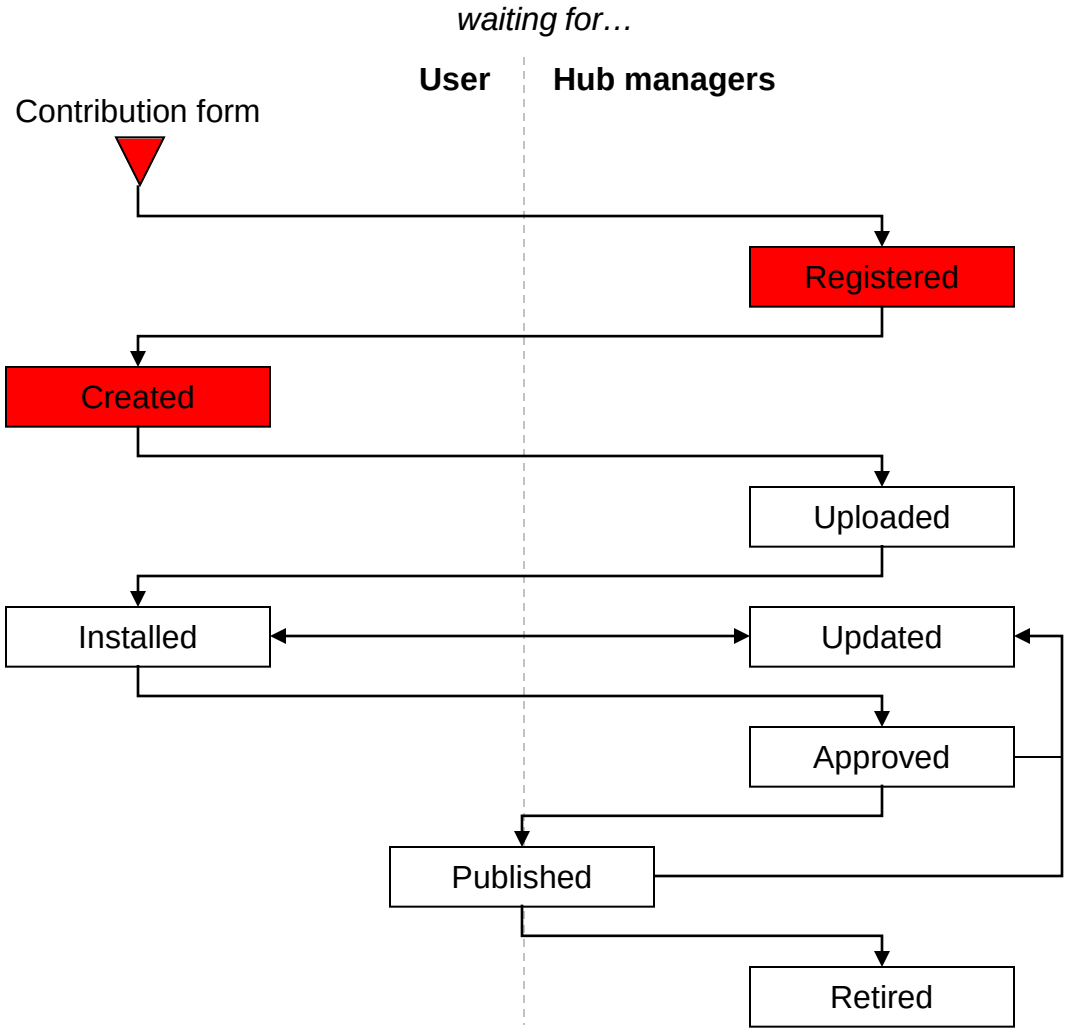
Start the upload process



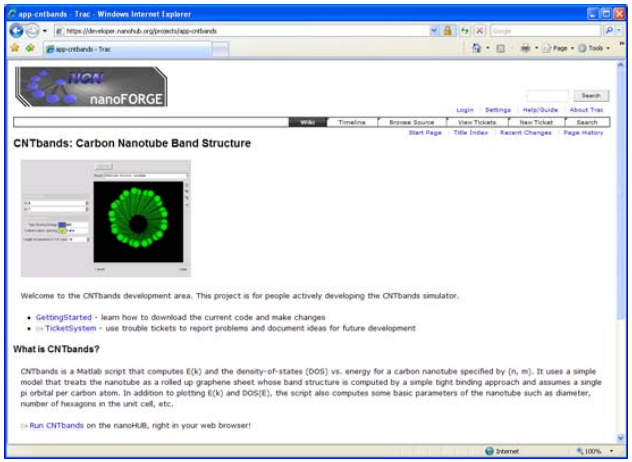
Tool registration form



Tool development process



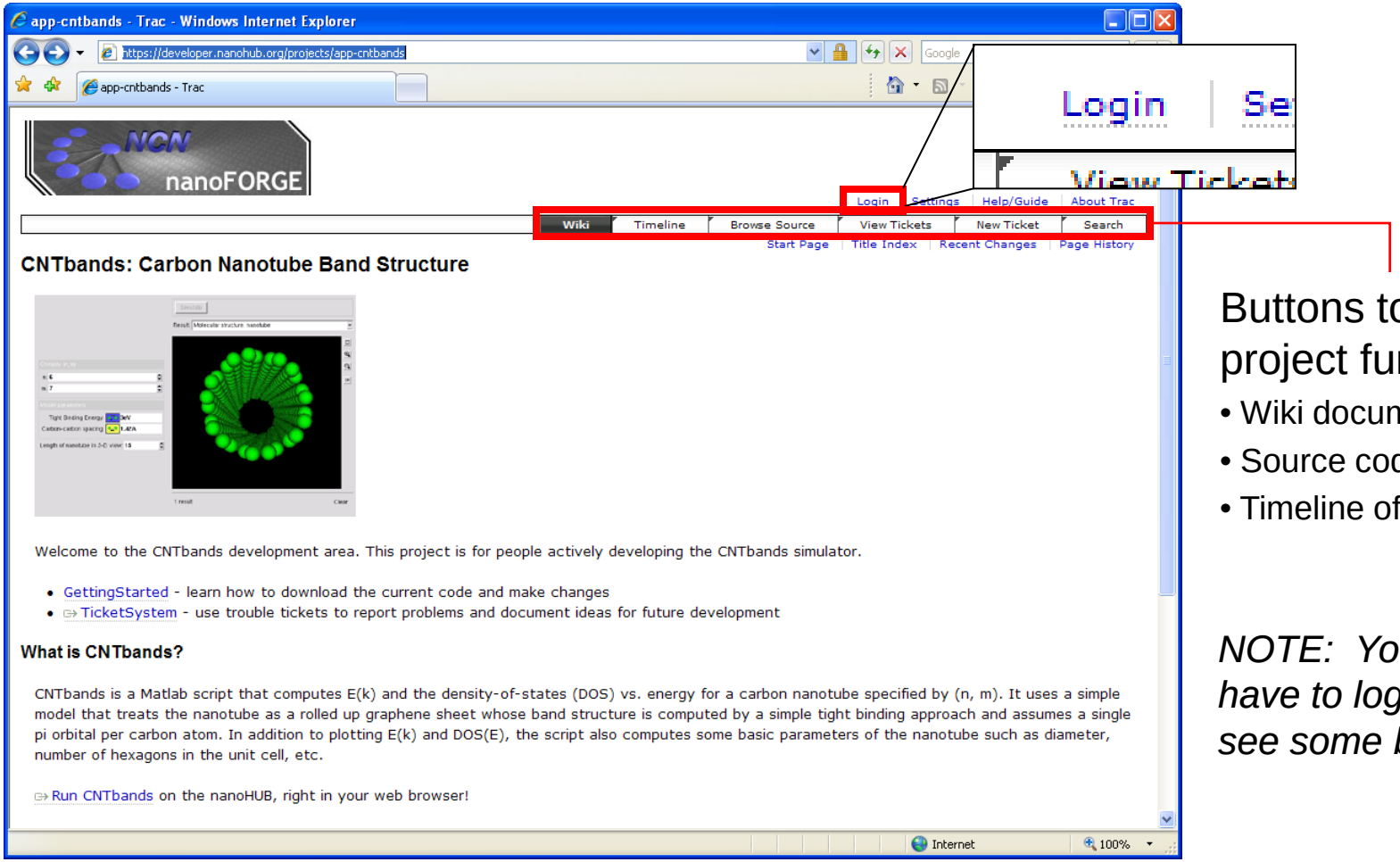
https://yourhub.org/tools



Hub managers create a project area for your tool

- Wiki for project documentaton
- Subversion source code control
- Code change history

Your project area

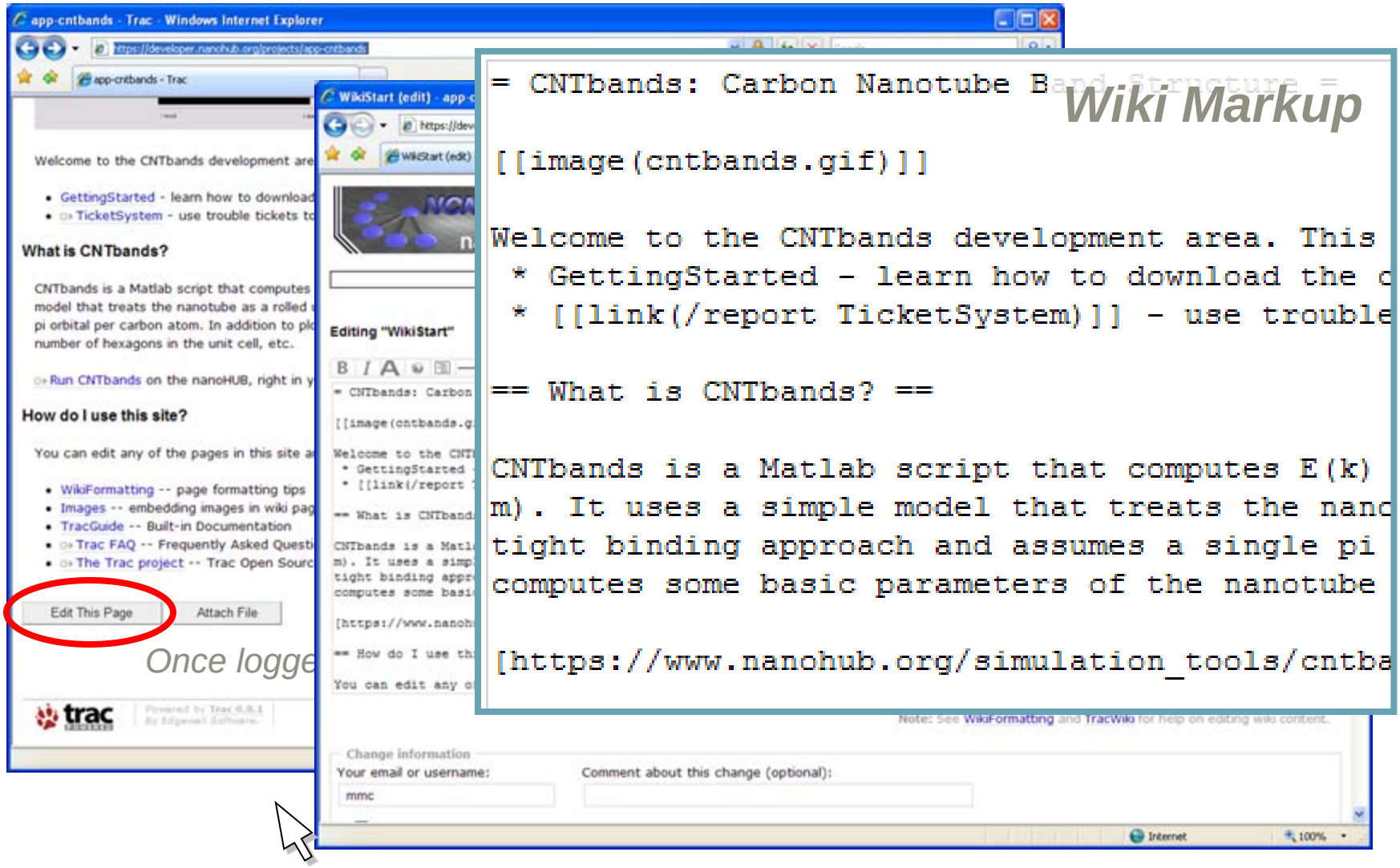


Buttons to access project functions:

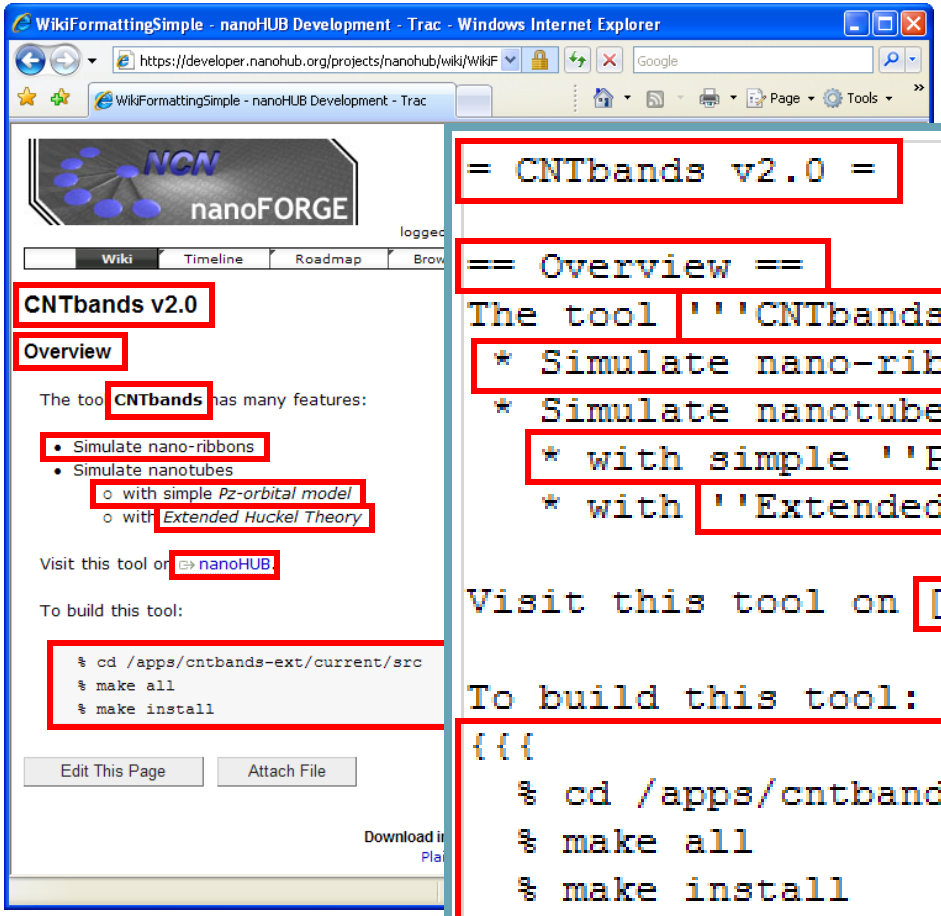
- Wiki documentation
- Source code
- Timeline of changes

NOTE: You may have to log in to see some buttons

Editing wiki pages



Wiki mark-up



Complete instructions in your project area at wiki/WikiFormatting

```
= CNTbands v2.0 =

== Overview ==
The tool '''CNTbands''' has many features:
 * Simulate nano-ribbons
 * Simulate nanotubes
   * with simple ''Pz-orbital model''
   * with ''Extended Huckel Theory''

Visit this tool on [http://www.nanohub.org nanoHUB].

To build this tool:
{{{
  % cd /apps/cntbands-ext/current/src
  % make all
  % make install
}}}
```

Linking wiki pages

CNTbands v2.0

Overview

The tool **CNTbands** has many feat

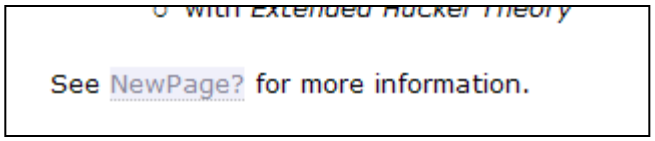
- Simulate nano-ribbons
- Simulate nanotubes
  - with simple *Pz-orbital mo*
  - with *Extended Huckel Th*

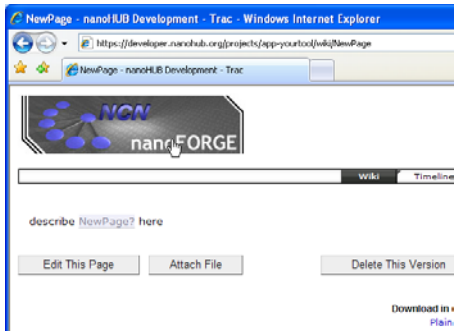
See NewPage for more information.

```
    * with simple ''Pz-orbital model''
    * with ''Extended Huckel Theory''

See NewPage for more information.

Visit this tool on [http://www.nanohub.

To build this tool:
```

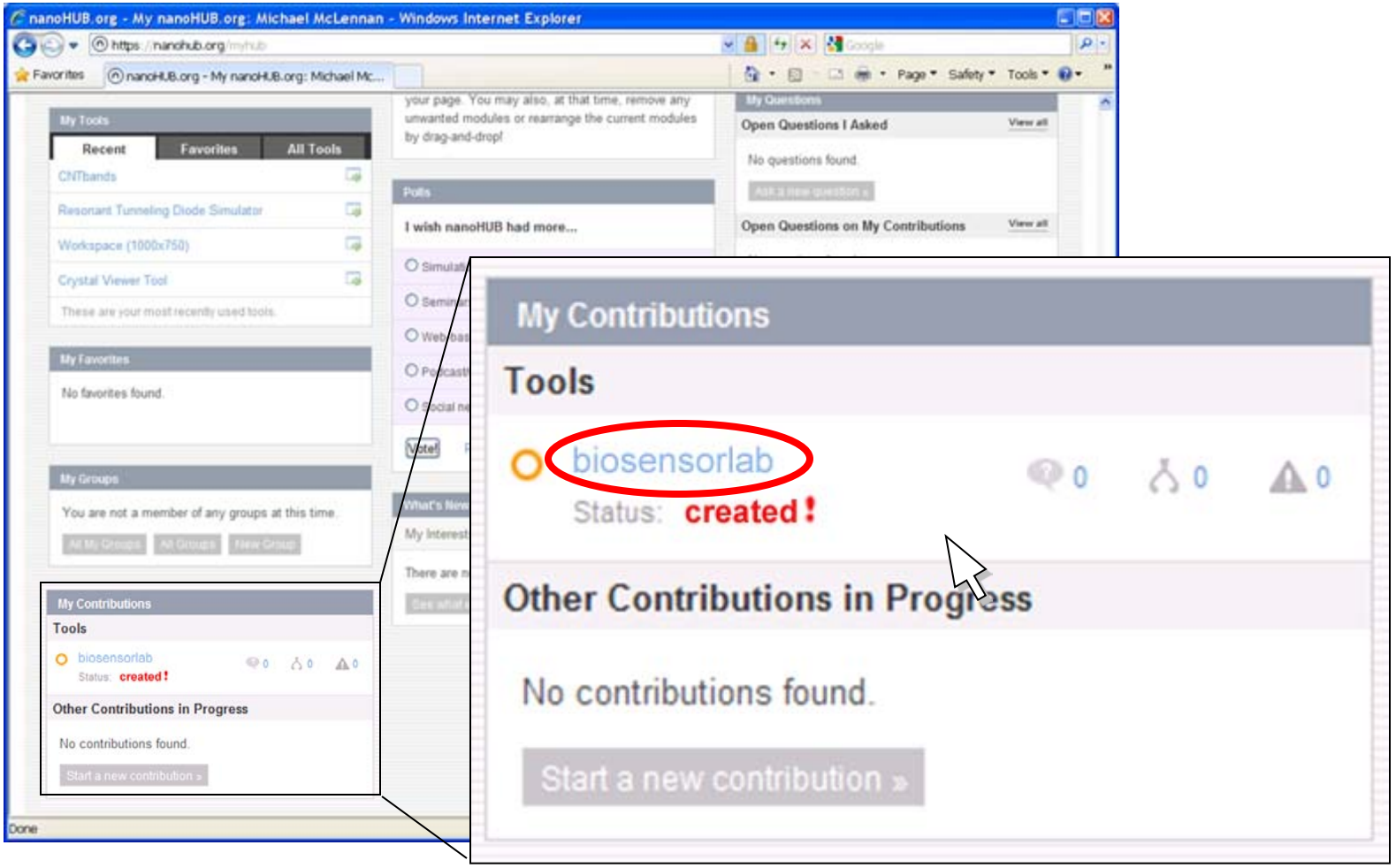
Any word with mixed case is treated as a link

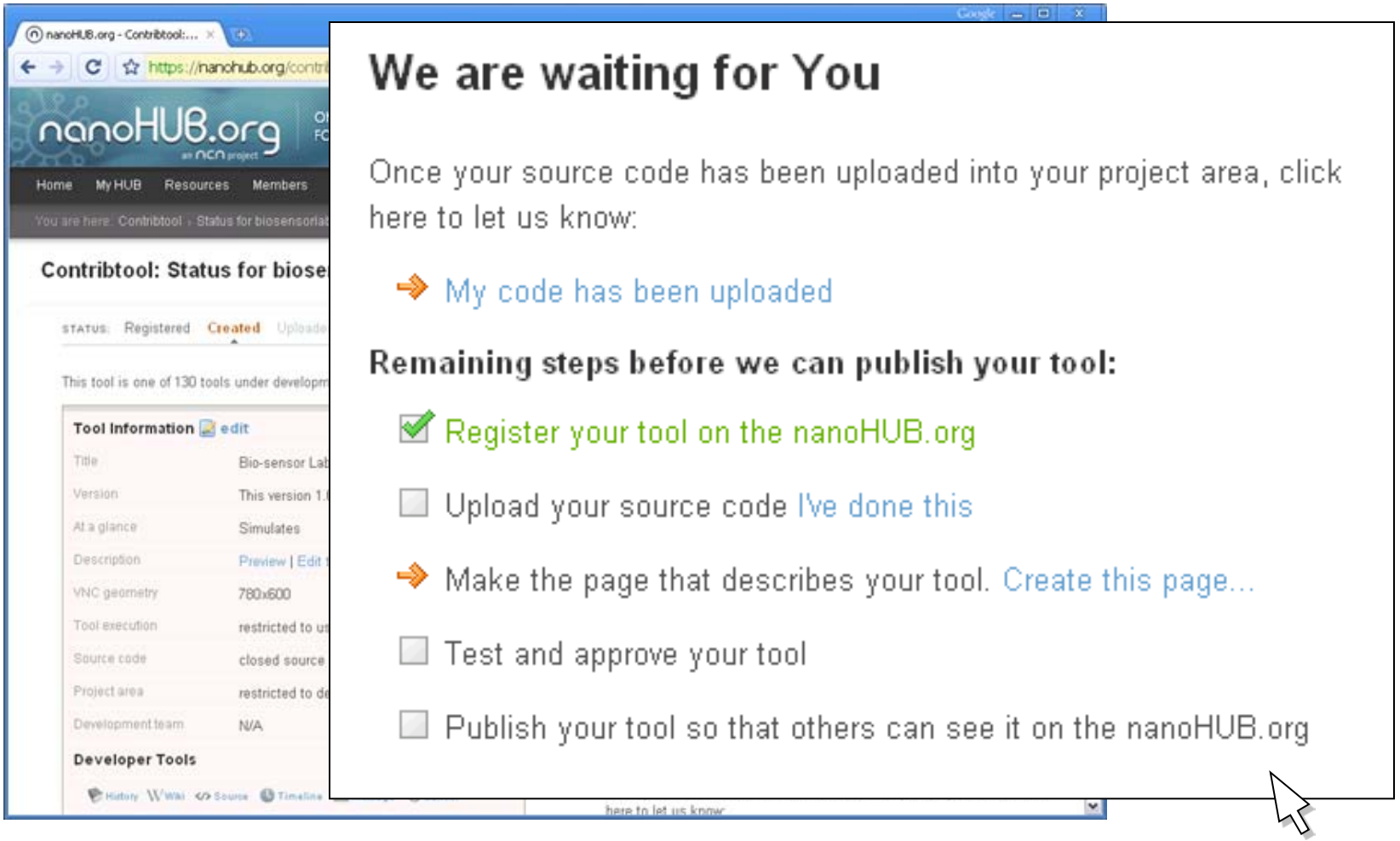
Click on any link? to create that page:



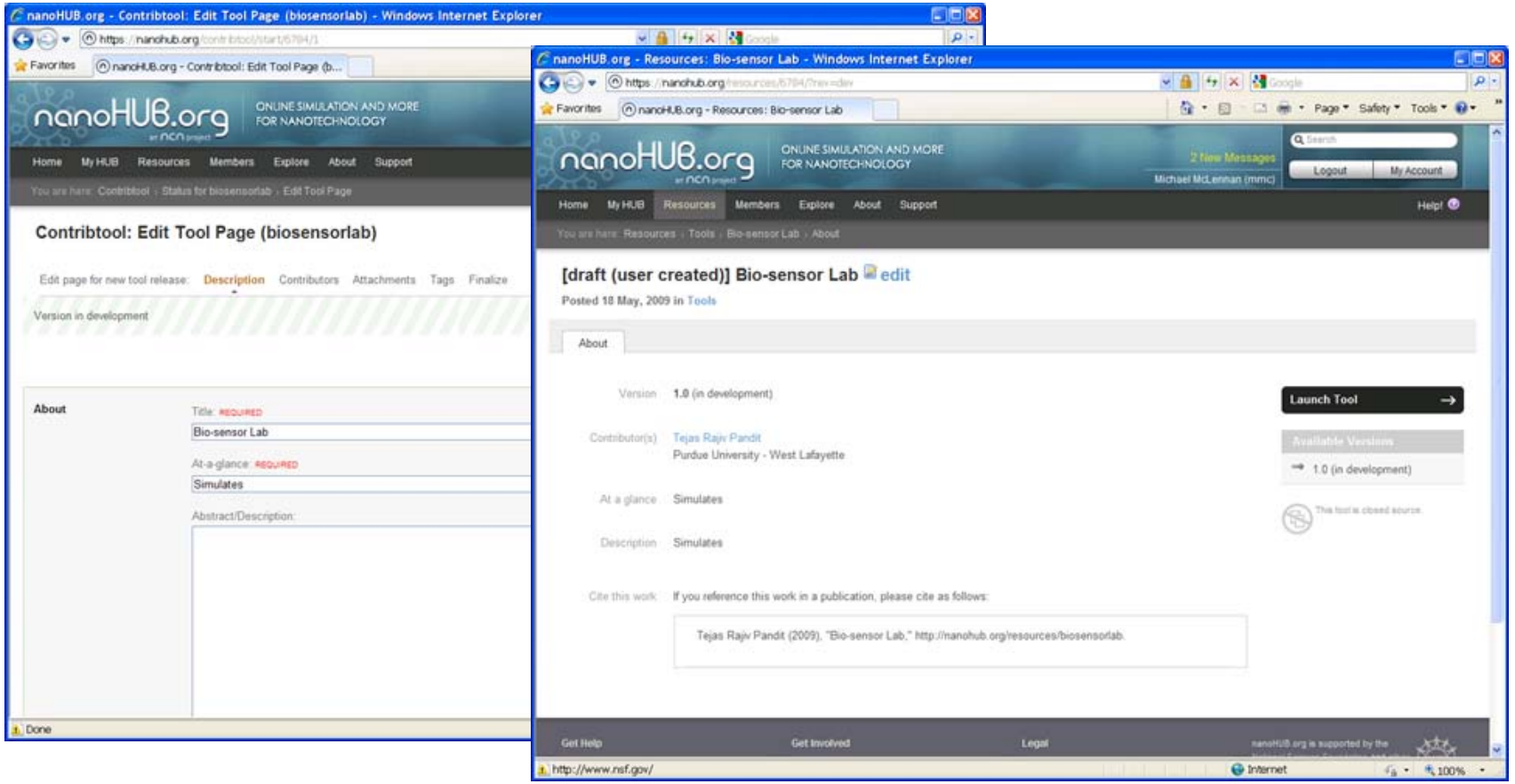


What's happening?



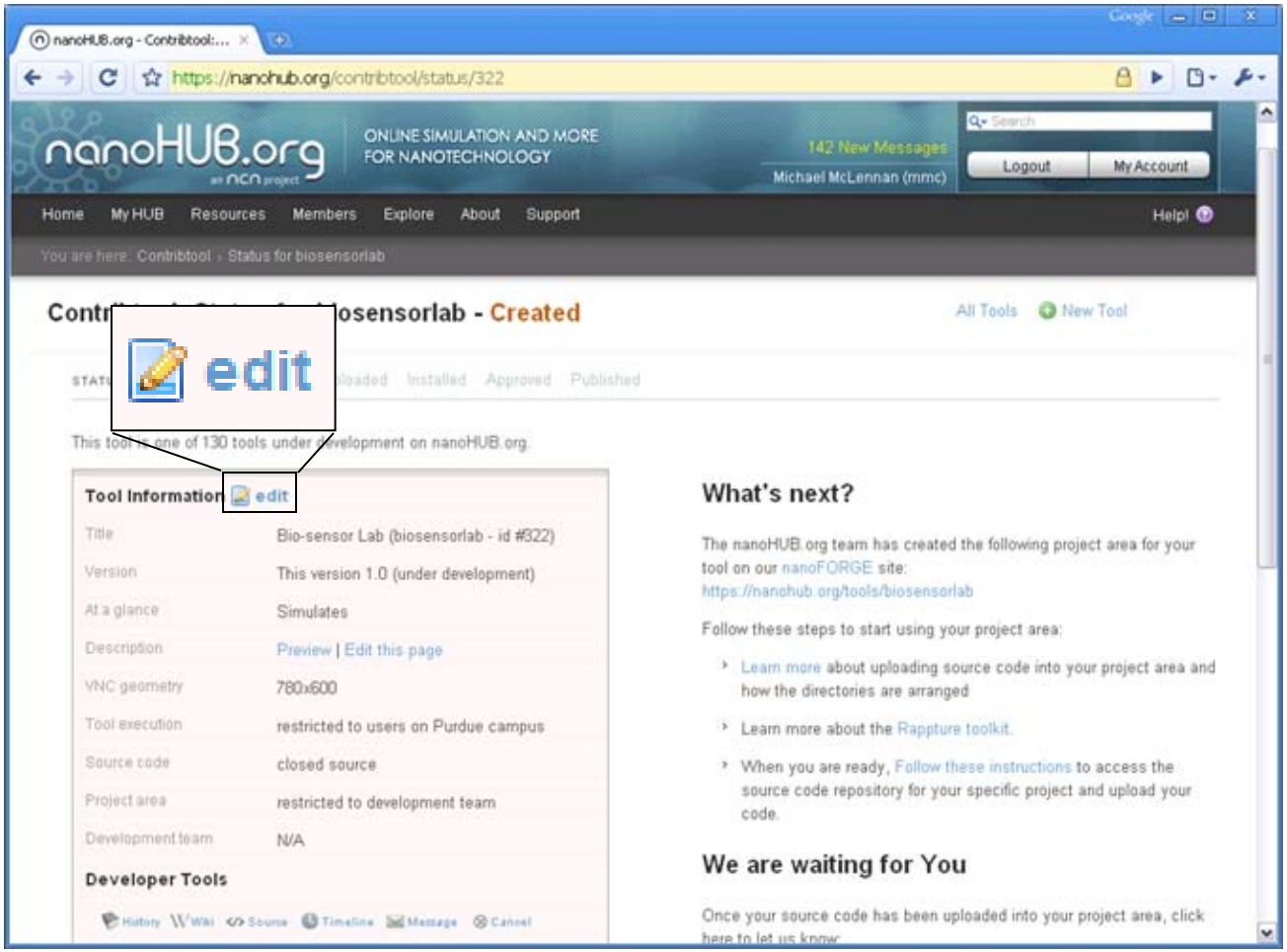

nanoHUB.org - Contribtool:...
https://nanohub.org/contri
nanoHUB.org
Home
My HUB
Resources
Members
You are here: Contribtool › Status for biosensorlab
Contribtool: Status for biose
STATUS: Registered Created Uploade
This tool is one of 130 tools under developm
Tool Information edit
Title
Bio-sensor Lab
Version
This version 1.0
At a glance
Simulates
Description
Preview | Edit
VNC geometry
780x600
Tool execution
restricted to us
Source code
closed source
Project area
restricted to de
Development team
N/A
Developer Tools
History
Wiki
Source
Timeline
here to let us know
We are waiting for You
Once your source code has been uploaded into your project area, click here to let us know:
My code has been uploaded
Remaining steps before we can publish your tool:
Register your tool on the nanoHUB.org
Upload your source code I've done this
Make the page that describes your tool. Create this page...
Test and approve your tool
Publish your tool so that others can see it on the nanoHUB.org

Edit your tool information page

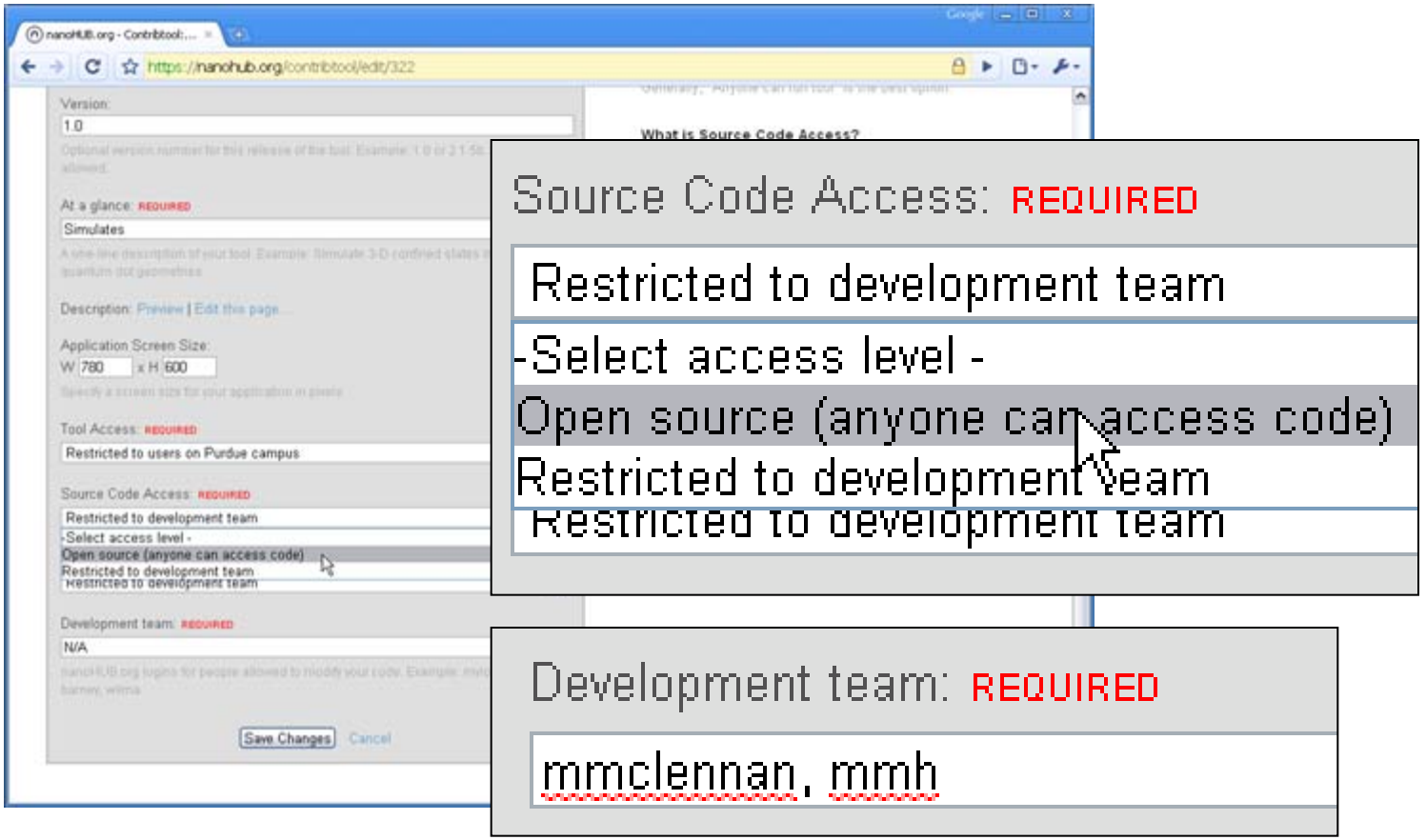


This is the page that people see when they find your tool on the hub

Know where you stand



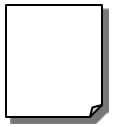
Edit your tool settings



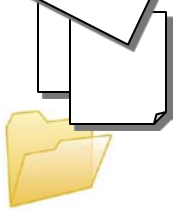
Putting out Open Source

```
/*
 * ============================================
 * AUTHOR:  Michael McLennan
 * Copyright (c) 2011  Purdue University
 *
 * See the file "license.terms" for information on
 * usage and redistribution of this file, and for a
 * DISCLAIMER OF ALL WARRANTIES.
 * ============================================
 */
…
```

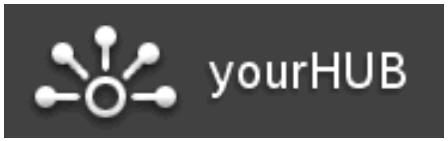
www.opensource.org



license.terms



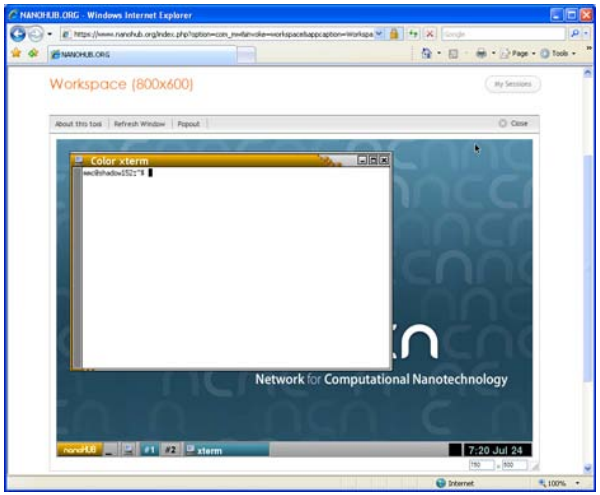
your code



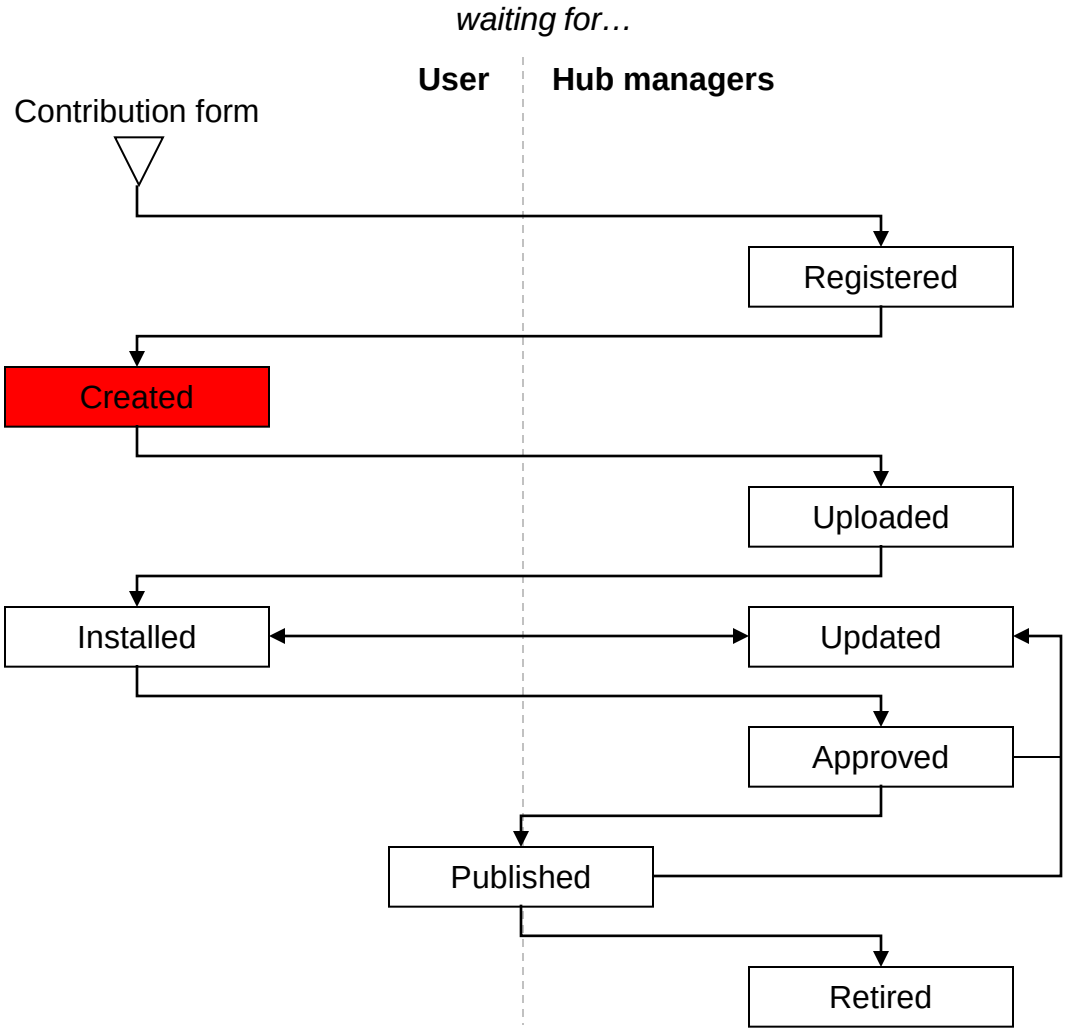
Version **2.3** - published on 18 Dec 2009

DOI: 10254/nanohub-r1838.5 cite this

Open source: license | download

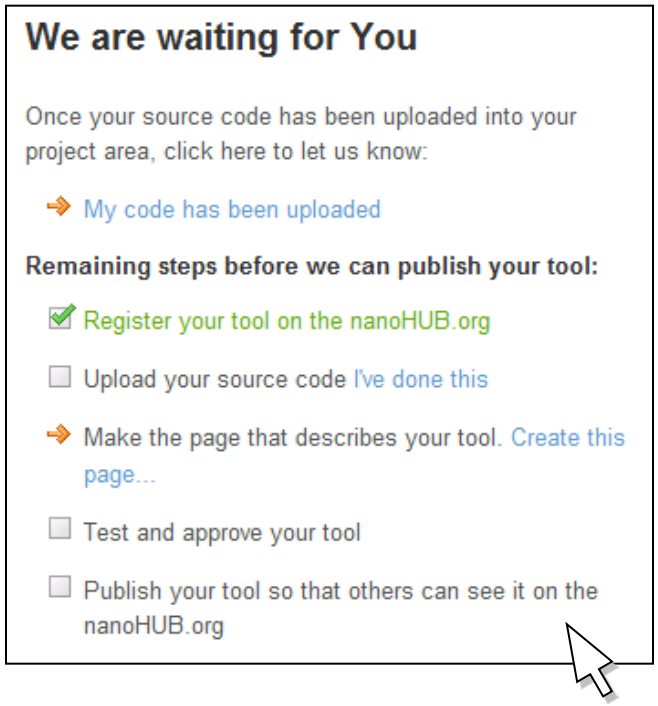


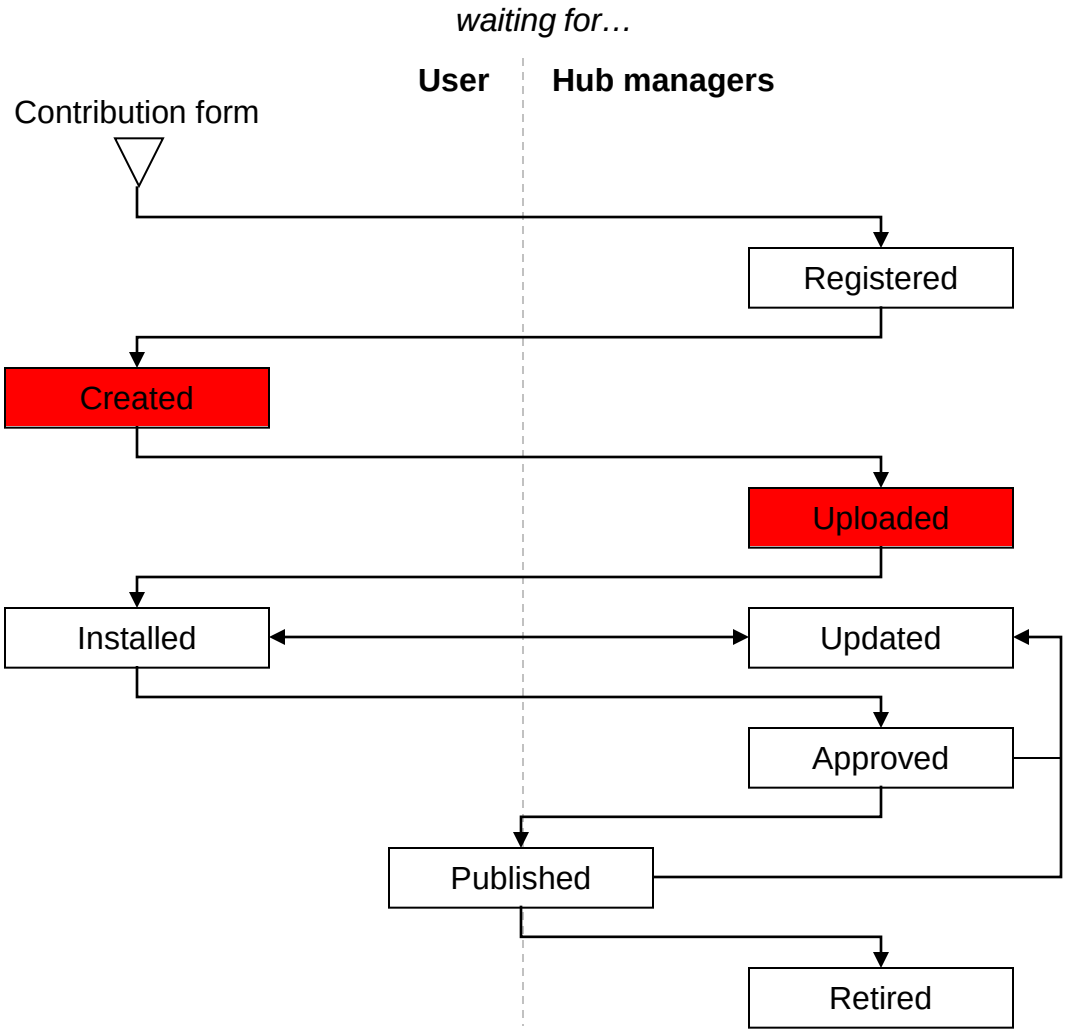
Upload your code into a hub workspace. Compile, test, and commit changes back to your Subversion repository.



Uploading your code

Tool status page:
http://yourhub.org/contribtool





What's next?

Your latest code is installed and ready on na
Please test your tool by clicking the button b
sure that everything is working properly, as w
that the page describing your tool is created
correct information:

- Test your application:

Launch tool →

- Review the page describing your tool

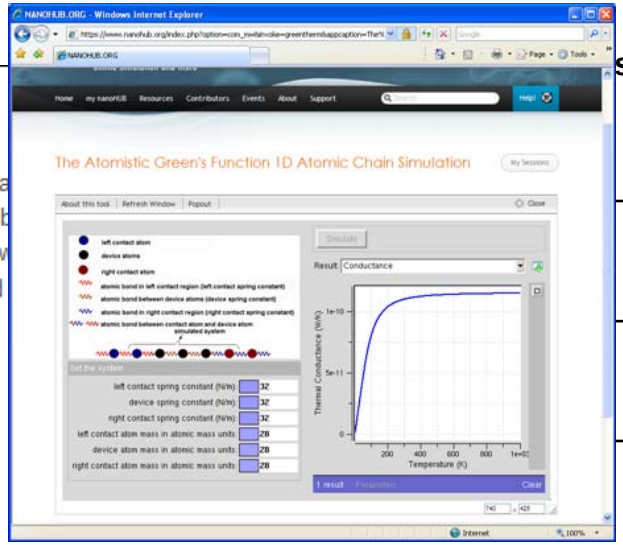
We are waiting for You

Once you tested your tool and verified that it is working properly, click here to let us know:

- My tool is working properly. I approve it.

Need to make changes? Once you\'ve checked in your latest fixes, click here to let us know:

- I've fixed my code. Please install the latest updates.



waiting for…

ser **Hub managers**

Registered

Uploaded

Installed

Updated

Approved

Published

Retired

Testing your tool

What's next?

Your latest code is installed and ready on nanoHUB.org.
Please test your tool by clicking the button below to mak
sure that everything is working properly, as well as verify
that the page describing your tool is created and displays
correct information:

- Test your application:

  Launch tool →

- Review the page describing your tool

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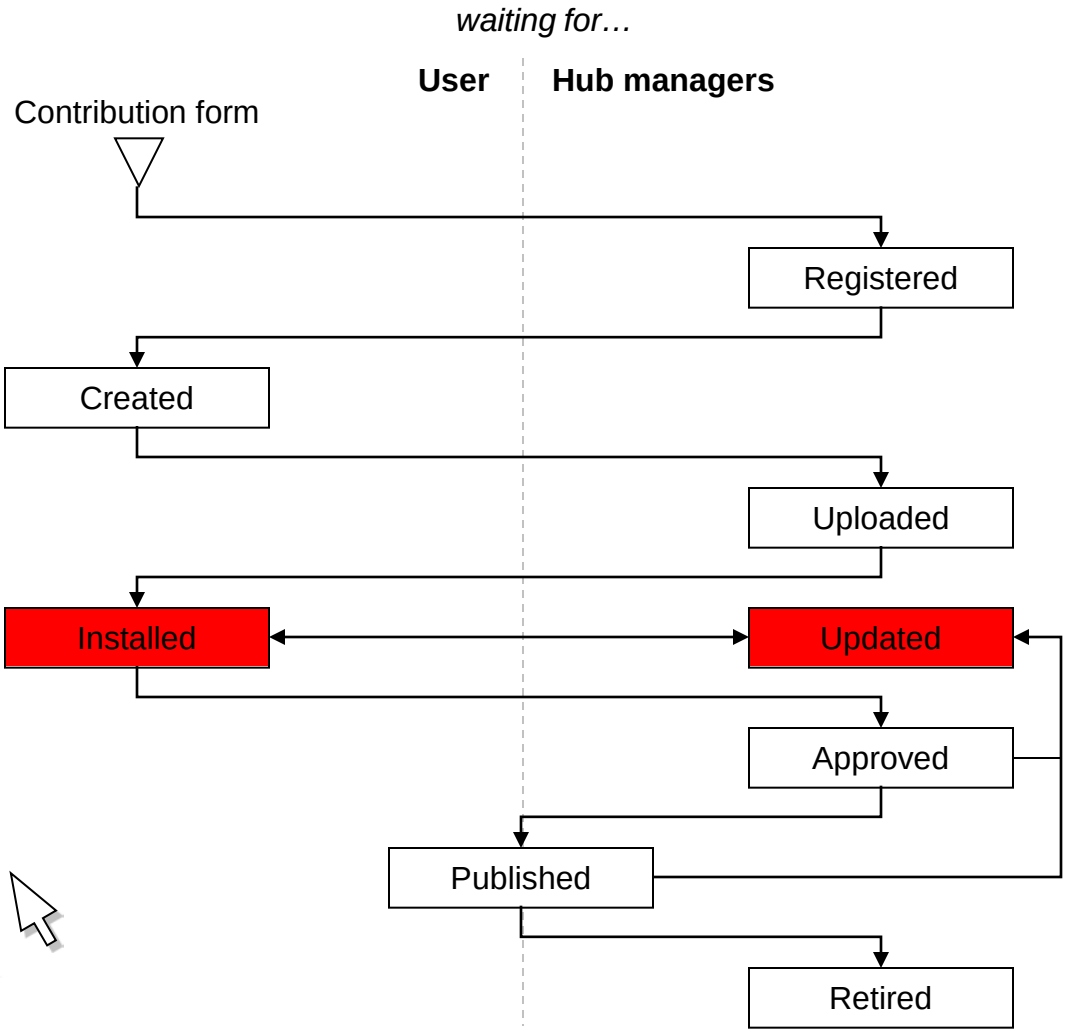

Need help?

What's next?

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  Launch tool →

- Review the page describing your tool

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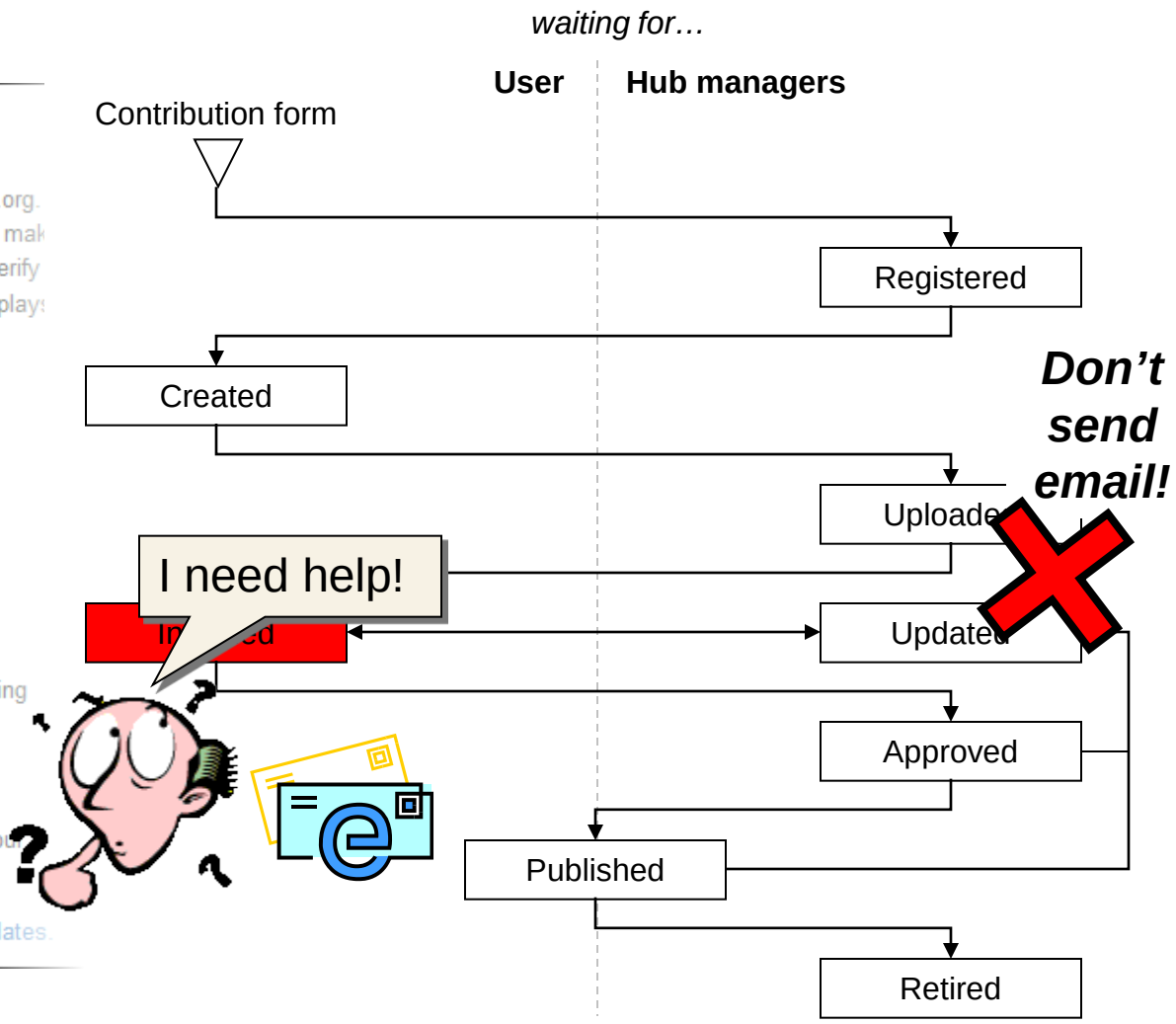
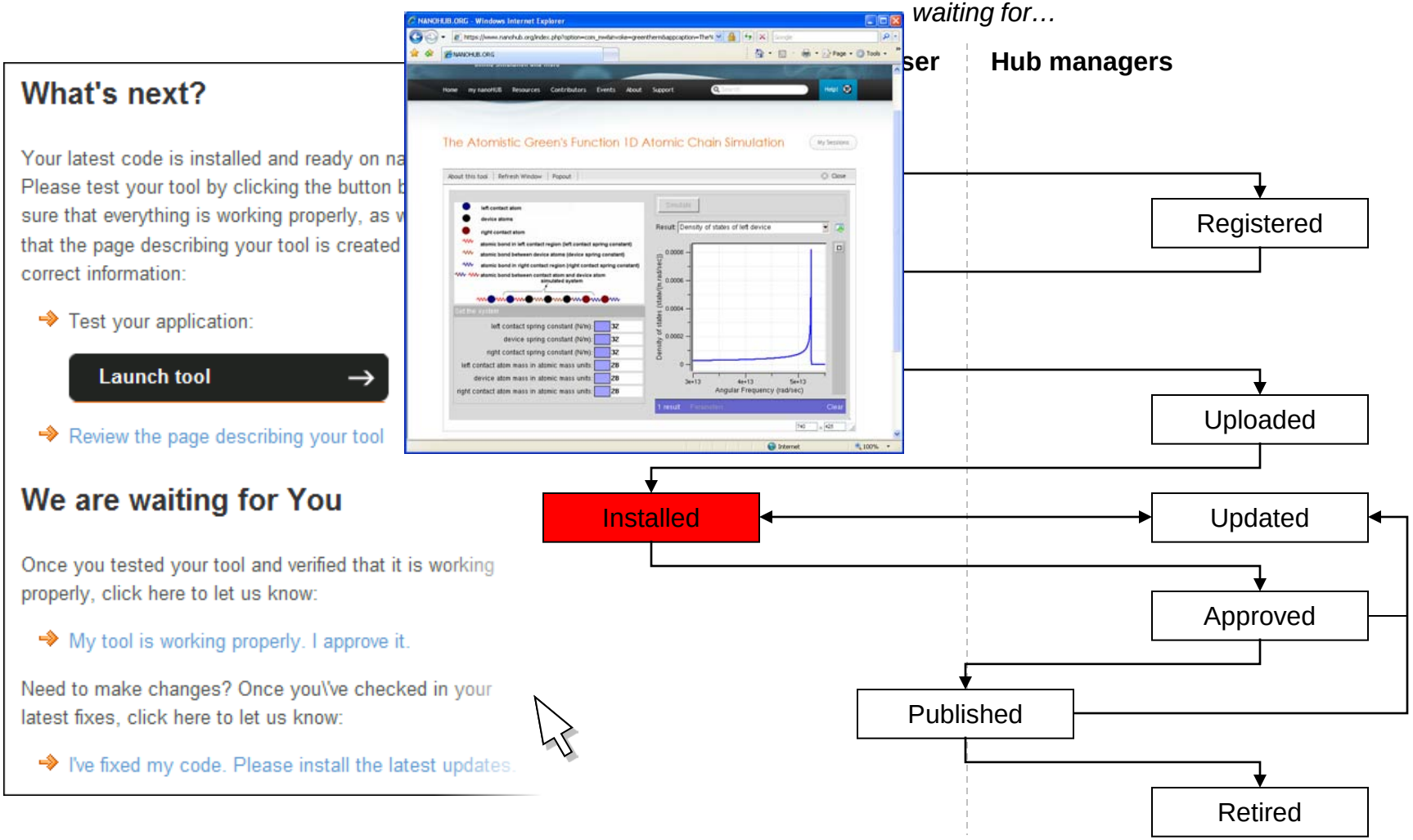
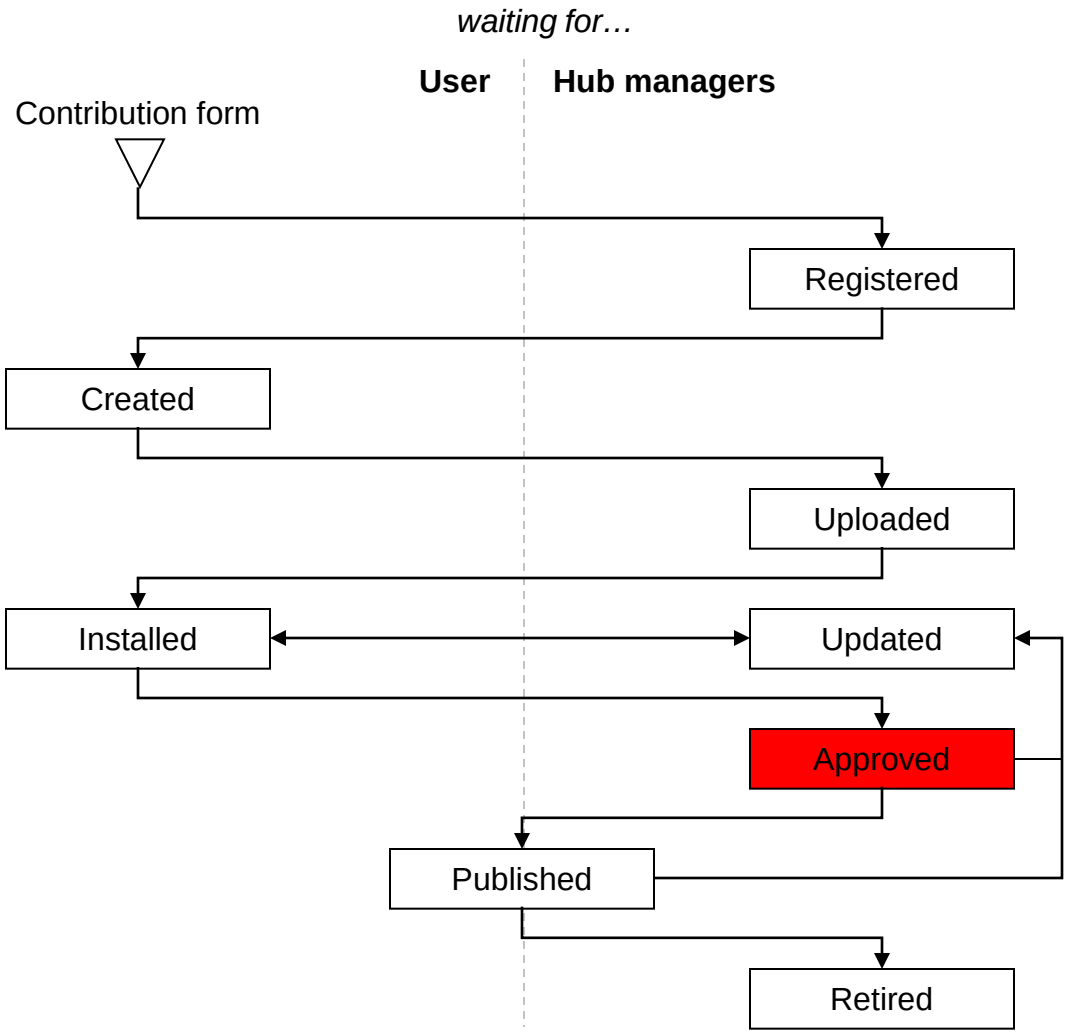


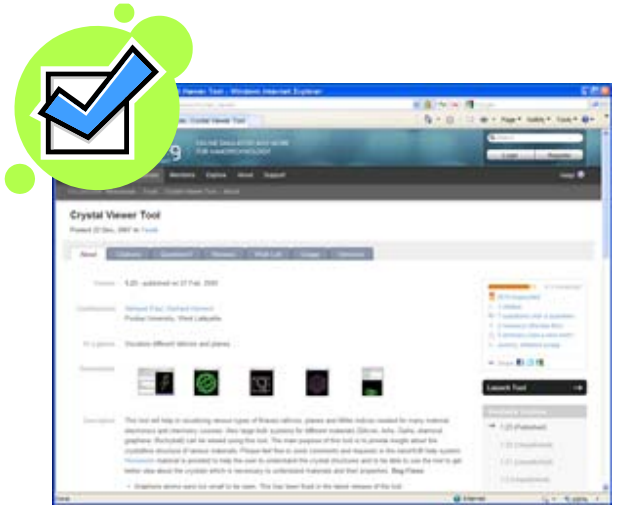
Use the web interface to communicate

Message goes to the whole team, and is stored in the history

Testing your tool—again



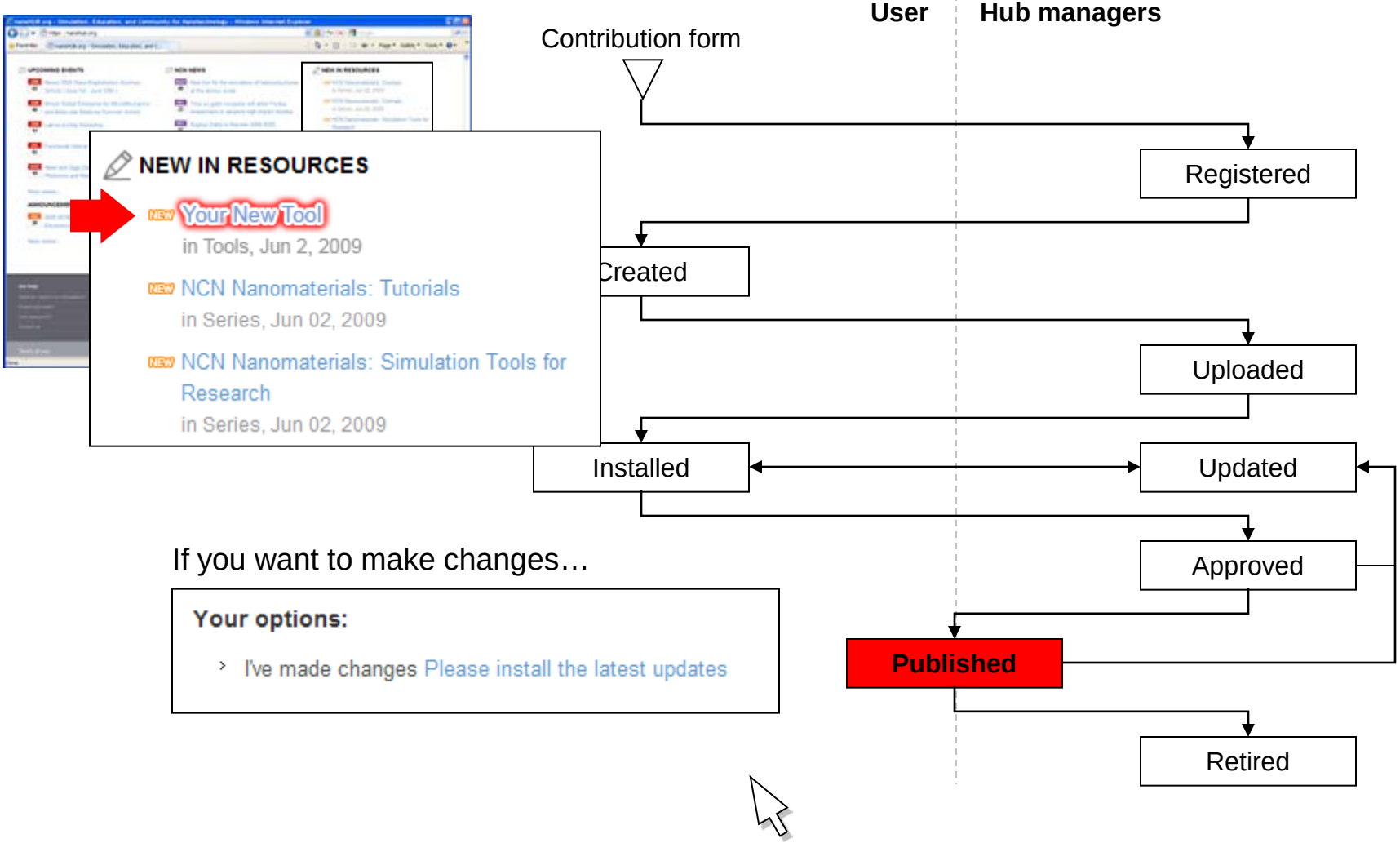




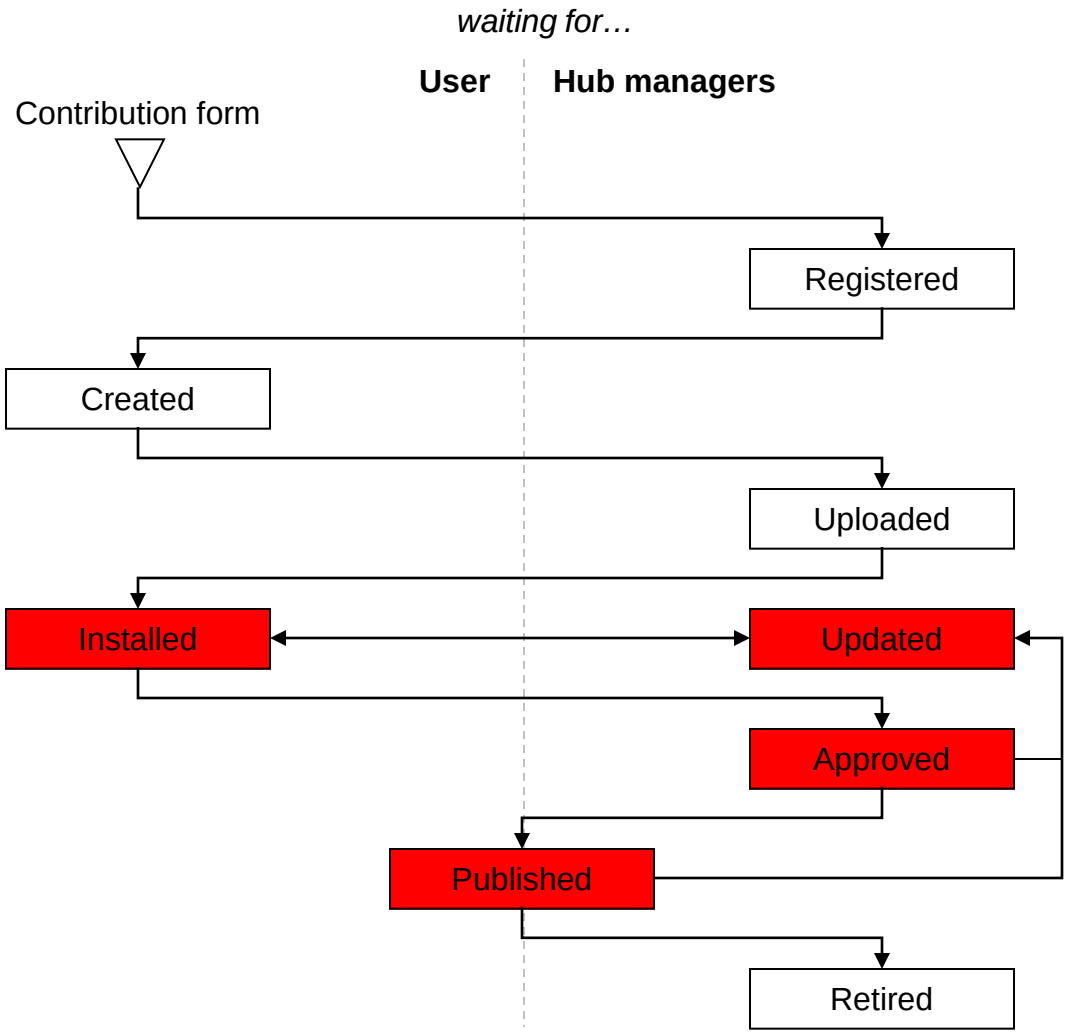
Hub managers…

- Take one last look
- Make sure that the tool works
- Check the tool information page
- Then, publish your tool

Your tool is published



Updating your tool

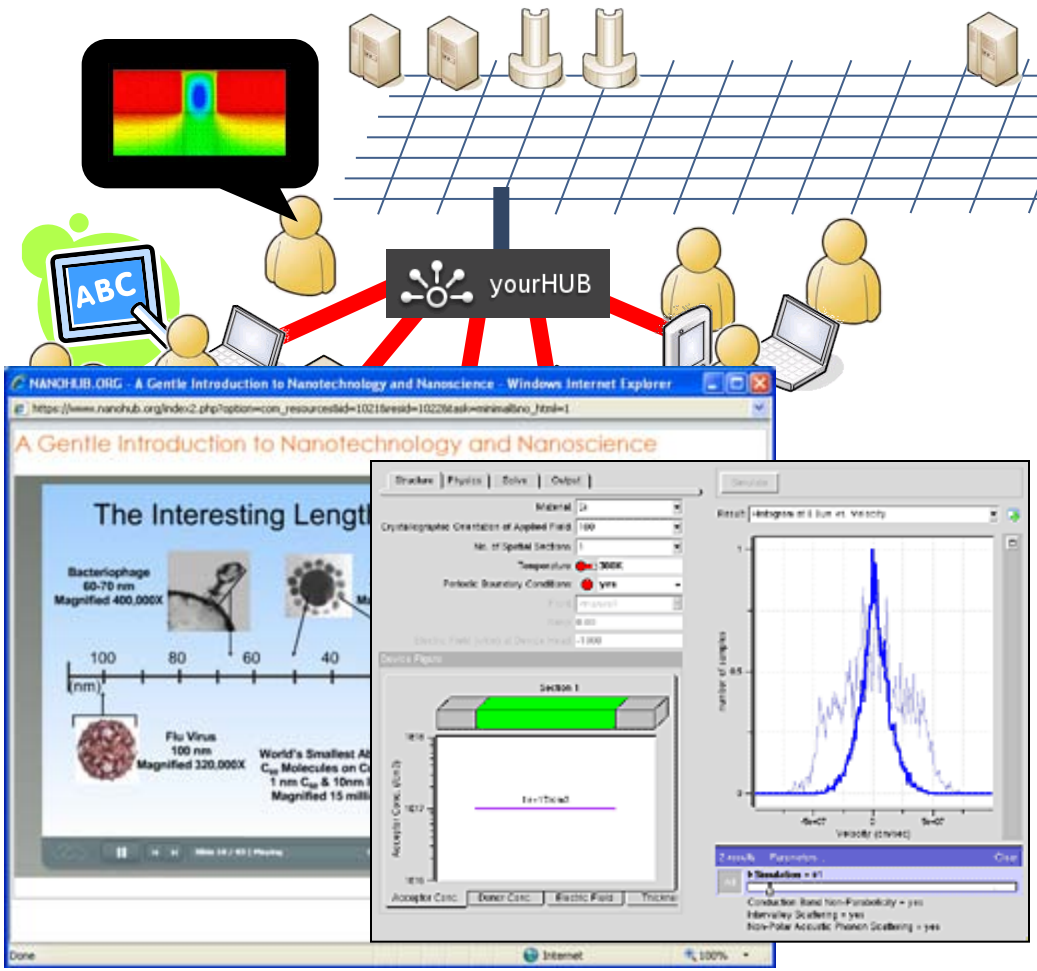


Re-install your tool

You approve it

One last look

Your changes are published



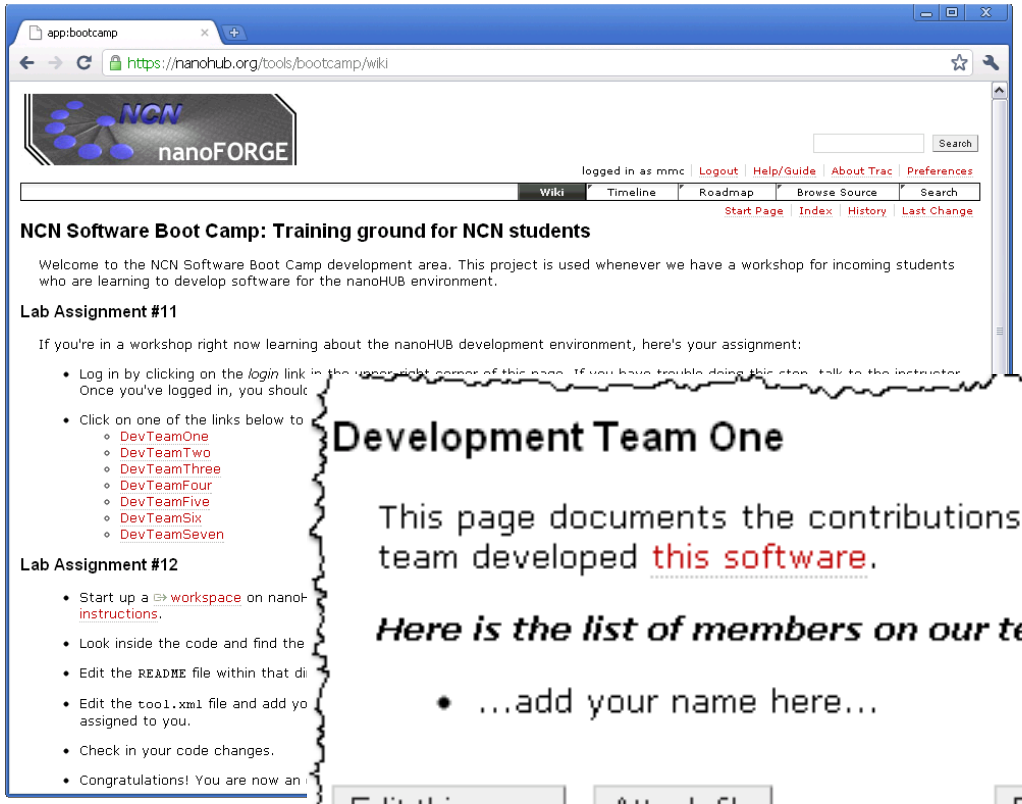
Don't let your code gather dust on the shelf. Get it out there!

Upload your own:

- Tools
- Tutorials

Assignment #11: Add to the "bootcamp" project

https://nanohub.org/tools/bootcamp/wiki



- Work in teams
- Edit your team's wiki page
- Add your name to the list