# **Helpful Tools**

Lynda tutorials: lynda.pennstatehealth.net

|  |  |
| --- | --- |
| Python Tutorial Names | Django Tutorial Names |
| * Learning Python | * Learning Python and Django (2015) * Django: 1 Building a Blog |
|  |  |

Django documentation: <https://www.djangoproject.com/>

* Original and official Django documentation: walks you through building a polling app.

Django Girls: <https://tutorial-extensions.djangogirls.org/en/>

* Supplemental information for after you finish the original Django Girls tutorial here: <https://tutorial.djangogirls.org/en/>

Django YouTube tutorials:

1. <https://www.youtube.com/watch?v=yfgsklK_yFo&list=PLEsfXFp6DpzQFqfCur9CJ4QnKQTVXUsRy>
   1. Channel: Coding Entrepeneurs. These tutorials focus on building a blog based off of the functions that come with Django’s admin application
2. <https://www.youtube.com/watch?v=qgGIqRFvFFk&list=PL6gx4Cwl9DGBlmzzFcLgDhKTTfNLfX1IK>
   1. Channel: The New Boston. These tutorials are more general to building any sort of website with django

More background information on Frameworks:

1. <https://jeffknupp.com/blog/2014/03/03/what-is-a-web-framework/>
   1. What is a web framework and how does it function
2. <https://blog.udacity.com/2014/10/building-and-contributing-to-frameworks.html>
   1. Building and contributing to frameworks
3. <https://www.upwork.com/hiring/development/understanding-software-frameworks/>
   1. Talks about different features and types of frameworks

# **Application Overview**

The Blogger 2000 project helps you learn and test your knowledge of Python and Django. After you watch the tutorials from Lynda.com, build your own blog project based on the following roles, user stories, and use cases that our Systems Analyst already put together for you. Follow best practices as well as the software development lifecycle. This includes commenting code and providing any documentation needed. If you have any questions feel free to ask your coworkers or supervisor.

# **Roles**

| **Abbreviation** | **Name** | **Description** |
| --- | --- | --- |
| ITAM | Information Technology Account Manager | Controls access to the application. |
| ITA | Information Technology Administrator | Provides support to users. |
| AUTH | Author | Creates blog posts. |
| COMET | Commentator | Comments blog posts. |
| ANON | Anonymous | Views blog posts. |

# **User Stories**

Clicking on the ID links below will take you to a list of actions (use cases) that will help you accomplish that specific user story.

| **ID** | **As a ...** | **I can ...** | **So that ...** |
| --- | --- | --- | --- |
| [S001](#_S001) | ITA | perform the actions of all roles | I can provide support to all users |
| [S002](#_S002) | ITA | view the history of comments, downloads, uploads, posts, permissions, roles, and users | I can blame someone else when things go wrong |
| [S003](#_S003) | ITAM | create, delete, edit, and view application users | I can restrict access to authorized personnel |
| [S004](#_S004) | AUTH | create, delete, edit blog posts | I can rant all day |
| [S005](#_S005) | AUTH | delete and upload PDF attachments to blog posts | I can have people download pictures of my kitten |
| [S006](#_S006) | ANON | view blog posts | I can face palm all day |
| [S007](#_S007) | ANON | see when and who created and edited blog posts | I can refer to them by name |
| [S008](#_S008) | ANON | see when and who created and edited comments | I can quote them in my own comments |
| [S009](#_S009) | ANON | download blog attachments | I can obsess over cute kitty picutres |
| [S010](#_S010) | COMET | delete, create, and edit my comments on blog posts | I can share my true feelings with the world |
| [S011](#_S011) | ANON | create and edit a COMET user account | Only I can create comments with my username |

# **Use Cases**

## S001 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ITA attempts an action | the ITA is authorized to perform the action |

## S002 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ITA invokes the history action for a module | a table of recently changed records is shown |

## S003 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ITAM invokes the add user action | a form displays prompting for the user's username, first name, middle name, last name, email address, status, and roles  the username, first name, middle name, last name, and email address are text fields  the username, first name, last name, email address, status, and roles are required  the status is a select of Active, Suspended, and Terminated  the role is a multi-select of ITA, ITAM, and PTA |
| 2 | the ITAM submits valid data | the data is saved  the user is redirected to the page where the user invoked the add action |
| 3 | the ITAM submits invalid data | messages display explaining any errors |
| 4 | the ITAM can cancel the add user action | the data is not saved  the user is redirected to the page where the user invoked the add action |
| 5 | the ITAM invokes the edit user action | a form is displayed with current data populated |
| 6 | the ITAM submits valid data | the data is saved  the user is redirected to the page where the user invoked the add action |
| 7 | the ITAM submits invalid data | messages display explaining any errors |
| 8 | the ITAM can cancel the edit user action | the data is not saved  the user is redirected to the page where the user invoked the add action |
| 9 | the ITAM invokes the delete user action | a confirmation window appears, asking the PTC to confirm or cancel the deletion |
| 10 | the ITAM confirms the deletion | the user is deleted |
| 11 | the ITAM cancels the deletion | the user is not deleted |

## S004 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the AUTH invokes the add post action | a form displays prompting for the post's title and content |
| 2 | the AUTH submits valid data | the data is saved  the user is redirected to the page where the user invoked the action |
| 3 | the AUTH submits invalid data | messages display explaining any errors |
| 4 | the AUTH can cancel the post entry | the data is not saved  the user is redirected to the page where the user invoked the action |
| 5 | the AUTH invokes the edit post action | a form is displayed with current data populated |
| 6 | the AUTH submits valid data | the data is saved  the user is redirected to the page where the user invoked the action |
| 7 | the AUTH submits invalid data | messages display explaining any errors |
| 8 | the AUTH can cancel the post edit | the data is not saved  the user is redirected to the page where the user invoked the action |
| 9 | the AUTH invokes the delete post action | a confirmation window appears, asking the AUTH to confirm or cancel the deletion |
| 10 | the AUTH confirms the deletion | the post is deleted |
| 11 | the AUTH cancels the deletion | the post is not deleted |

## S005 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the AUTH invokes the upload action for a post | a form displays prompting for a file |
| 2 | the AUTH submits valid data | the data is saved  the user is redirected to the page where the user invoked the action |
| 3 | the AUTH submits invalid data | messages display explaining any errors |
| 4 | the AUTH clicks cancel | the data is not saved  the user is redirected to the page where the user invoked the action |
| 5 | the AUTH invokes the delete upload action | a confirmation window appears, asking the PTC to confirm or cancel the deletion |
| 6 | the AUTH confirms the deletion | the upload is deleted |
| 7 | the AUTH cancels the deletion | the upload is not deleted |

## S006 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ANON navigates to the website's landing page | the 10 latest posts are shown |
| 2 | the ANON clicks the next page link | the next 10 latest posts are shown |
| 3 | the ANON clicks the last page link | the 10 oldest posts are shown |
| 4 | the ANON clicks the previous page link | the next 10 oldest posts are shown |
| 5 | the ANON clicks the first page link | the 10 latest posts are shown |
| 6 | the ANON enters a search term | comments with titles that contain the search term are listed |
| 7 | the ANON clicks on the title of a post | the post is shown along with its comments and uploads |

## S007 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ANON sees the title of a post | the author and last edited datetime for the post are visible |

S008 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ANON sees the title of a comment | the author and last edited datetime for the comment are visible |

## S009 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ANON invokes the download action | the file is downloaded |

## S010 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the COMET invokes the add comment action | a form will display prompting for the comment's title and content |
| 2 | the COMET submits valid data | the data is saved  the user is redirected to the page where the user invoked the action |
| 3 | the COMET submits invalid data | messages display explaining any errors |
| 4 | the COMET clicks cancel | the data is not saved  the user is redirected to the page where the user invoked the action |
| 5 | the COMET invokes the edit comment action | a form is displayed with current data populated |
| 6 | the COMET submits valid data | the data is saved  the user is redirected to the page where the user invoked the action |
| 7 | the COMET submits invalid data | messages display explaining any errors |
| 8 | the COMET clicks cancel | the data is not saved  the user is redirected to the page where the user invoked the action |
| 9 | the COMET invokes the delete comment action | a confirmation window appears, asking the COMET to confirm or cancel the deletion |
| 10 | the COMET confirms the deletion | the comment is deleted |
| 11 | the COMET cancels the deletion | the comment is not deleted |

## S011 -

| **Step** | **When...** | **Then...** |
| --- | --- | --- |
| 1 | the ANON invokes the create account action | a form will display prompting for a username, password, and email |
| 2 | the ANON submits valid data | the data is saved  the user is redirected to the page where the user invoked the action |
| 3 | the ANON submits invalid data | messages display explaining any errors |
| 4 | the ANON clicks cancel | the data is not saved  the user is redirected to the page where the user invoked the action |
| 5 | the COMET invokes the edit my account action | a form is displayed with current data populated |
| 6 | the COMET submits valid data | the data is saved  the user is redirected to the page where the user invoked the action |
| 7 | the COMET submits invalid data | messages display explaining any errors |
| 8 | the COMET clicks cancel | the data is not saved  the user is redirected to the page where the user invoked the action |