IN712 Web 3 Semester 1

# Assignment 3 – Django

# Group Size: 1

# Value: 25% of course mark

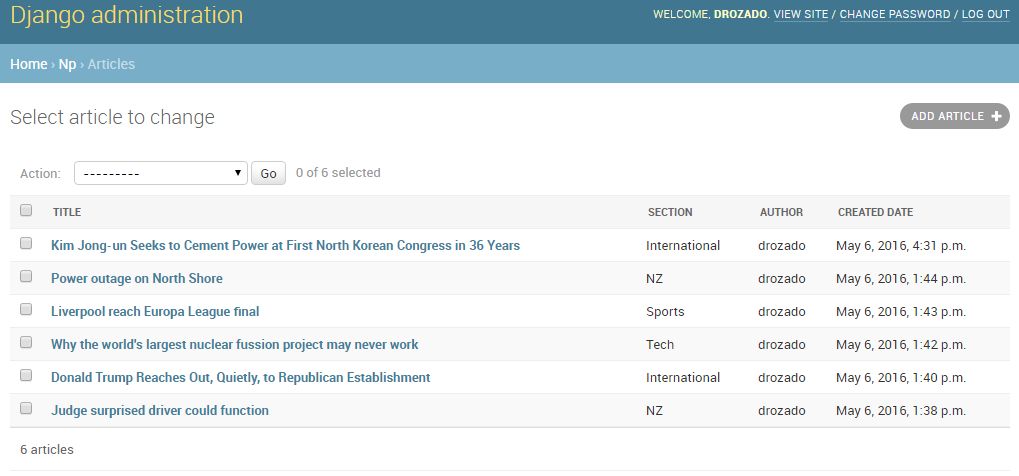
# Due Date: Friday, 26th May, 5.00 pm

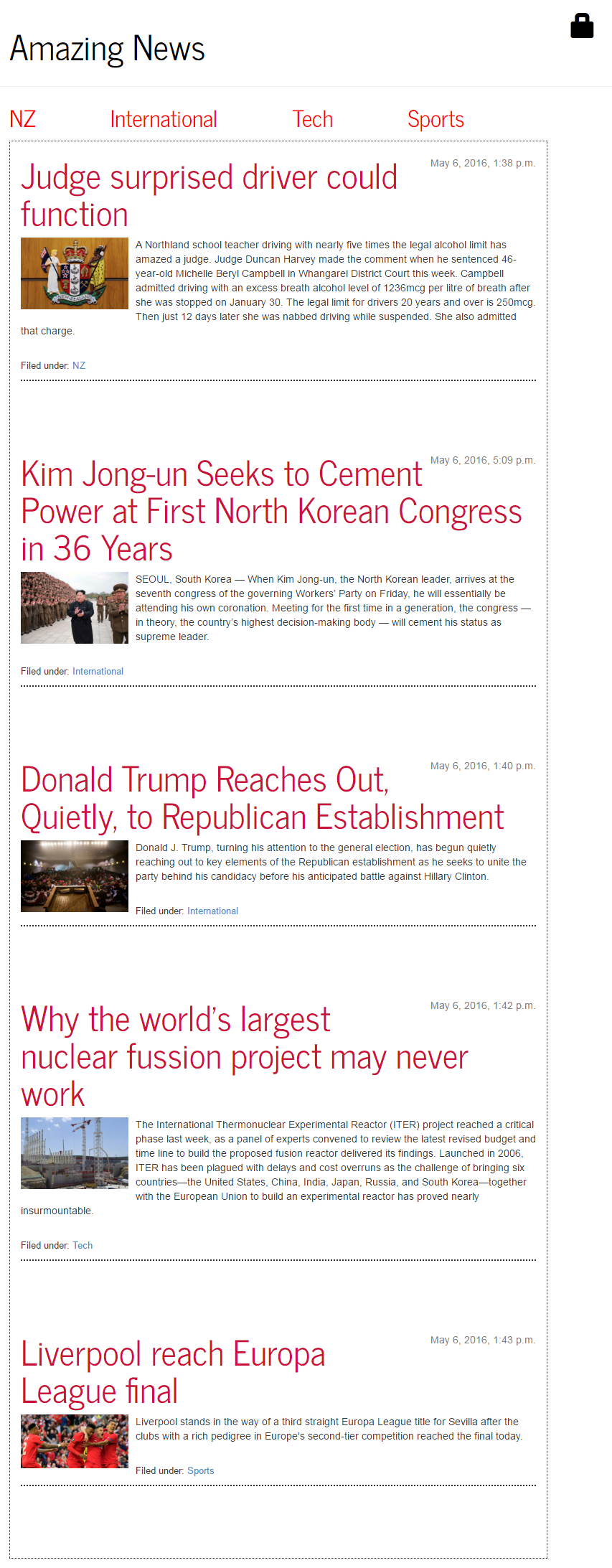
## Summary:

## In this assignment you are requested to create the backend and frontend of an online newspaper. Your project should include a system for journalists to upload new articles to the system’s database. Your project should also include a front end website that displays the 5 latest articles stored in the system’s database. What you need to do can be easily grasped by taking a look at the demo video of the assignment (demoAssignment3.mp4) in the I: drive or class GitHub repository.

## Requirements (each bullet point is worth 1 mark, partial marks will be given for partially completed tasks):

1. Create a Django project named news with an application inside name np (for newspaper)
2. Create an Article model with the following fields: author of the news article, title of the news article, section of the news article (NZ, international, Tech or Sports), and introductory text to be displayed in the front page of the newspaper, a text field containing the entire text of the article, a URL pointing to an image on the web related to the article and a creation date.
3. Create a superuser in your production server with user name: admin and password: password123. **This is important since these are the credentials I will use to test your application!**
4. Customize the admin interface so I can see a view in the admin interface similar to the following image when I log in:

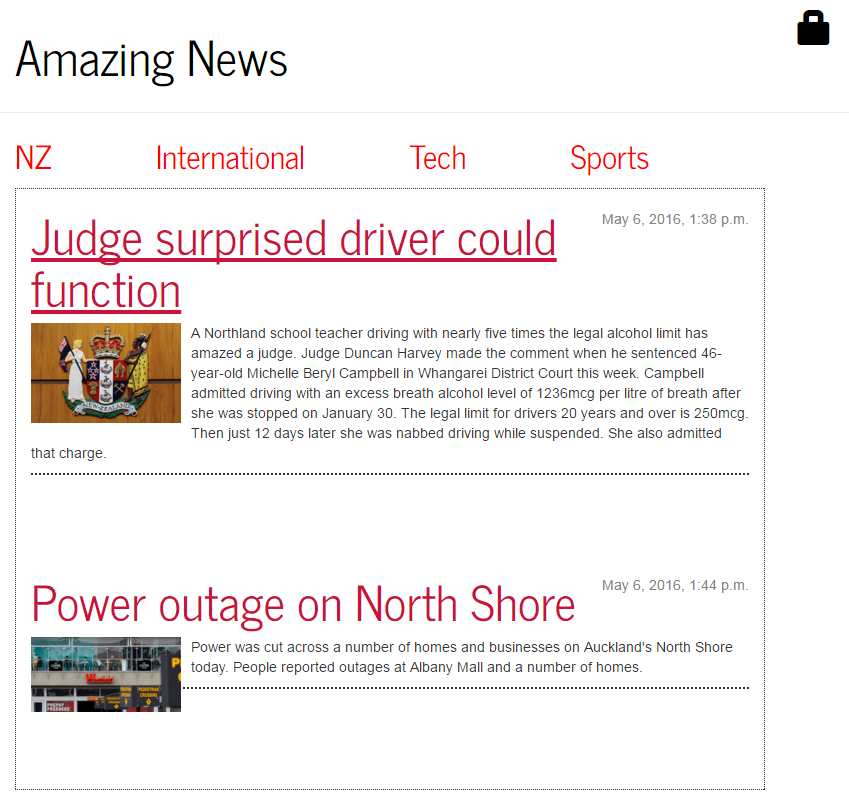




1. Create a view and corresponding template that displays a list of the latest 5 articles in reverse chronological order (newer at the top)



1. Clicking on the title of an article in the main site should take us to a detailed view of the article



1. Include at the top of the main site links to the 4 main sections of the newspaper: NZ, International, Tech and Sports. When clicking on each one of the sections, only articles corresponding to the clicked section should be displayed.



1. Create a form for me to enter new articles in the system
2. Create a button for log in purposes
3. Create 2 buttons in the detailed view of an article for logged in journalists to edit or delete news articles.
4. Create a button in the main site that allows logged in users to go to the form to enter new articles in the system. The system should also display visual feedback indicating to the user whether they are logged in or not.
5. Use a base template and template extending to not repeat yourself (DRY)
6. Create a nice CSS design from scratch or use a framework (for instance Bootstrap) for your newspaper to look professional
7. Deploy your application in <https://www.pythonanywhere.com> and provide in your GitHub repo a readme.txt file with the URL of your deployed application
8. Add about 10 articles to your production database (at least 2 for each section)
9. Create your own private repository for your work using the following link: <https://classroom.github.com/assignment-invitations/650688ff961ac6e75735b06fa86cc3d0>
10. **Include in the repository Readme.txt file your complete name**. All code files and resources in a legible file structure should be available in this repository with URL “https://github.com/OPClasses/assignment3-YourGithubUserName”.

## Learning outcomes:

1. Understand the structure of a compiled web application or webservice and roles of elements in that structure
2. Understand web application, webservice, web pages and web control lifecycles and design items accordingly.
3. Understand and appropriately use caching, master pages, Asynchronous JavaScript and XML (AJAX), software service providers, datastore interaction, Cascading Style Sheets (CSS).
4. Understand and appreciate the impact of Web 2.0 and the semantic web.
5. Implement web software designs using an object-oriented language in a contemporary integrated development environment