**Django Exercise – Adding the Courses Component**

**This Exercise will be an extension of our demo we did in class: Students Demo**

**Step 1. Activating the Virtual Environment**

* Navigate into your python virtual environment Scripts folder (e.g. **C:/src/Python\_Workspace/[virtual environment]\Scripts**)
  + Type “**activate”** or “**activate**.**bat”** and press enter.

**Step 2. Creating the Application**

* Navigate out of the scripts folder and into a demo project we created in class
* Run the following command: **py manage.py startapp courses**

**Step 3. Creating the Model**

* Create the model
  + **course**\_**name**
    - **max** **length** should be **250**
  + **start**\_**date**

**Step 4. Adding Model to the Project**

* Add the Courses Component in settings
  + **courses.apps.CoursesConfig**

**Step 5. Make Migrations**

* Py manage.py makemigrations [--name] <name>
* Py manage.py migrate

**Step 6. Create the URL paths for the Courses Component**

* **Create a urls.py file inside the Courses Component (demo/courses/url.py)**
  + Make urls – ‘’ list, <int:pk>/ details, addCourses add

**Step 7. Add path to component under main URLs navigation (demo/urls.py)**

* Add urls to main urls.py path(‘courses’, include(courses.urls))

**Step 8. Create the Views**

* Views
  + Add manual
  + ListView – generic
  + Detail – Generic

**Step 9. Add template files from Starter**

* Create a **Templates** folder inside the Courses Component
* Add the Html files from the starter
  + add.html
  + course\_detail.html
  + course\_list.html

**Step 10. Do what is needed to show the required data inside the templates**

* Add the Html files from the starter
  + add.html
    - Do what is needed to extend the base html file.
    - Set the block content on the page
    - Add a csrf token to the form.
    - Loop through the messages list to show the message after a post.
  + course\_detail.html
    - Do what is needed to extend the base html file
    - Set the block content on the page
    - Do what is needed to show the chosen course’s details.
  + course\_list.html
    - Do what is needed to extend the base html file
    - Set the block content on the page
    - Loop through the list of courses showing all the results in the table as well as a link to the details for that one course.
    - if there are no results in the list show a message “No results to display”
    - Create a link to add a new course

**Final Step. Run the Application!**