**AD130: Web Application Development - Project 1**

**Project Description:**

Each great journey begins with a humble step. Before we can do awesome things with Django, we need to be prepared with a productive environment. In the first part of Project 1 you need to complete all the installation and configuration activities to set up the Django environment for your Operating System.

**1) Complete the environment installation steps on** **pages 7–9 of your textbook.**

Steps include:

* **Installing Python**
* **Installing PyCharm Community Edition**
* **Virtualenv**
* **Installing Django**
* **DB Browser for SQLite**
* **Using DB Browser**

After environment setup is done, it’s time to practice some coding. Projects in this course are correlated to Capstone assignments, as projects will help you to practice features that need to be implemented in the Capstone project. For this reason, it is critically important to complete all the exercises provided in the book.

**2) Complete all the “Exercise” sections in Chapters 1 and 2:**

* **Exercise 1.01: Creating a Project and App, and Starting the Dev Server**
* **Exercise 1.02: Project Setup in PyCharm**
* **Exercise 1.03: Writing a View and Mapping a URL to It**
* **Exercise 1.04: Exploring GET Values and QueryDict**
* **Exercise 1.05: Creating a Templates Directory and a Base Template**
* **Exercise 1.06: Rendering a Template in a View**
* **Exercise 1.07: Using Variables in Templates**
* **Exercise 1.08: Generating and Viewing Exceptions**
* **Exercise 1.09: Debugging Your Code**
* **Exercise 2.02: Creating an Entry in the Bookr Database**
* **Exercise 2.03: Using the create() Method to Create an Entry**
* **Exercise 2.04: Creating Records for a Many-to-One Relationship**
* **Exercise 2.05: Creating Records with Many-to-Many Relationships**
* **Exercise 2.06: A Many-to-Many Relationship Using the add() Method**
* **Exercise 2.07: Using the get() Method to Retrieve an Object**
* **Exercise 2.08: Using the all() Method to Retrieve a Set of Objects**
* **Exercise 2.09: Using the filter() Method to Retrieve Objects**
* **Exercise 2.10: Querying Across a Many-to-Many Relationship Using Field Lookup**
* **Exercise 2.11: A Many-to-Many Query Using Objects**
* **Exercise 2.12: A Many-to-Many Query Using the set() Method**
* **Exercise 2.13: Using the update() Method**
* **Exercise 2.14: Using the delete() Method**

Submit the resulting files to **Project 1 in Moodle**.

**FOR INSTRUCTOR USE ONLY**

**Grading Rubric**

*Grading accepts a start value of 100. Points will be deducted for failure to fully complete or meet the stated requirements. Grading: 90-100 = Represents work of superior quality (A); 80-89 = Represents work of good to very good quality (B); 70-79 = Represents adequate command of class content (C); 69 and below = Represents work that shows a need for development or improvement (F); 0 = Represents plagiarized work (F).*

**AD130: Web Application Development (NCP-WEB)**

**Student:**

**Instructor:**

**Date:**

**Project 1**

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| **Description of requirements** | **Possible Points** | **Your Points** |
| Completed environment setup on pages 7-9 | **30** |  |
| Complete Chapter 1 exercises | **35** |  |
| Complete Chapter 2 exercises | **35** |  |
| **TOTAL** | **100** |  |

**YOUR SCORE**: \_\_\_\_\_\_\_\_

**Instructor Comments:**