# Business Requirements Document

# Python Django Web Application

26 March 2022

## Overview

This is a web application development project. You will use Python and Django to build a fully functional dynamic web-based application for recording learning progress. This application will be graded on functionality and usability. The focus of this project is on the back-end. This business requirements document (BRD) explains in detail what are expected from this application.

## Prerequisites

Before working on this project, you should understand the basics of object-oriented programming and relational database modelling. Django applications run on SQLite databases. You will need both Python and SQL skills to work well with the Django web development framework. Understanding of HTML, CSS, JavaScript, and other front-and-back-end frameworks will be helpful but not required for this project.

## Requirements

The application you’re about to develop will be used for recording learning progress. It is a dynamic application powered by Python Django. Your application must meet the following criteria:

1. The application is built with Python and Django. It uses a SQLite database to store user inputs.
2. The application should include a user login page where visitors can create accounts on the website to create custom learning logs.
3. The application should have a customized front-end design illustrating clearly the use case of the application.

## Resources

Follow Chapters 18 to 20 in *Python Crash Course* to build out this application. These chapters cover everything you need to know to develop this web app.

## Timeline

This project should take no more than three days to complete.

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| --- | --- | --- | --- |
| Date | Task | Description | Status |
| 26 March 2022 | Chapter 18 | Learn what Django is and how it can be used to create web applications. | X |
| 27 March 2022 | Chapter 19 | Build user login, account management, learning logs and other key functionalities. | X |
| 28 March 2022 | Chapter 20 | Use HTML, CSS, and JavaScript to design the user interface for the application. | X |

## Submission

When you’re done with the project, submit all the files required to the designated dropbox. Your submission should include the following materials:

1. Business Requirements Document (BRD): Your BRD should include the following details about the project:
   1. Overview: Summarize the project using the simplest language possible. Your Overview should describe clearly what the project is about.
   2. Prerequisites: These are basically what you need to know and have to successfully complete and deliver the project.
   3. Requirements: The requirements section should use numbered list to describe the criteria that the project must meet.
   4. Resources: These are online and offline resources that you can consult when working on the project.
   5. Timeline: Every project must have a timeline with milestones and deadline. These are critical benchmarks to ensure that the project is progressing at an acceptable pace.
   6. Submission: Every project should have some forms of deliverables such as documents and codes. This section should list all the deliverables and explain what each must include.
2. Solution Design Reference (SDR): This document should be written based on the BRD. Solution design should include expected inputs and outputs, features, and technology used. It should also analyse foreseeable challenges and discuss possible solutions.
3. User Acceptance Testing (UAT): The UAT document should list business requirements as criteria. Before the project goes live, it should meet all the criteria in the UAT.
4. Code files: This is an application development project. All the code files as well as files used for building the application should be included in this final submission.

All the materials described in this section must be 100% submitted for grading. Incomplete and late submission will not be accepted and graded.