Simple Application Procedure

V 1.0

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Previous Knowledge: Python, basic web development principles

Requirements: PyCharm, Python 3

## Scope

This document describes all the stages in the process of creating basic web application that includes Django backend, Postgres SQL database and React JS frontend.

## Installations

1.1 Install Django: <https://www.djangoproject.com/start/>

1.2 Download Postgres SQL: <https://www.postgresql.org/>

1.3 Install NodeJS: <https://phoenixnap.com/kb/install-node-js-npm-on-windows>

1.4 Install Recat: <https://www.geeksforgeeks.org/how-to-install-reactjs-on-windows/>

## Starting the Project

First, we need to create out backend with Django and connect it to the database in Postgers SQL.

Go to <https://stackpython.medium.com/how-to-start-django-project-with-a-database-postgresql-aaa1d74659d8>

and conduct the steps detailed in order to start new Django project with Postgres SQL.

Now that we have our backend and database working, we can create our html pages and write our python code.

Go to Django Documenation page: <https://docs.djangoproject.com/en/4.0/>

And figure how to write the relevant thing for your project (how to create form for example)**.** For anything you would like to put in your project, there are lots of examples in the web, so don’t hesitate to search anything in google.

After you finished to write your python code and you have your html pages working, you will need to work on your front end, which means you will start designing your html pages, and also connecting them to your database.

## Connecting html to Database

Go to: <https://leadsbridge.com/documentation/postgresql/html-form/>

This page details how to connect html pages to Postgres SQL database.

## Designing html pages

This is the final step in your project.

Go to: <https://www.youtube.com/watch?v=Ke90Tje7VS0> and learn react basics in order to start you react app and design your Django form.

This might take few hours to complete, but this crash course has all you need for your current project.

For any additional features you can always search in Google or YouTube.

## Uploading your project to GitHub

Go to: Github.com and register.

Then go to: <https://www.jetbrains.com/help/pycharm/manage-projects-hosted-on-github.html#share-on-GitHub>

And conduct the steps under the title "Share a project on GitHub".