We are going to use for this NLP Project “Supervised Learning Algorithm>>Classified” so we are going to make a set of value that tells what name is male and what female and we will build a module that takes these values and learn from them and make a relation so we can predict the future values input by the user.

-First,We made HTML5 page with Bootstrap 5 to make it responsive for every device

-The user type the name and as shown at “genderproject\detection\templates\detect.html” the value entered is saved with variable like “name” and we made button so we can make a POST request

-As you see at “genderproject\detection\views.py” we made a function called “home” that takes a request with no other arguments so request like GET and POST and then if the request is GET “No Name entered” so we just returned the web page with the form with no results,

But at the “else” section here will be if the request is POST so we will get that value “name” and save it in a variable called “name” as you see in line 34

-and then we will run some tasks

-first at the views.py page we have function called feature(word) which takes one argument word “will be replaced with name” and then we get the last character of the word that what feature() does

-Then we have a Training set in a file called set.py in the same directory that contains our values that we will tell the program about so he can study from these information to predict

-Back to views.py we want to store our last char from every name we gave to the program at variable “featuresets”

-Then the function “train\_set, test\_set” are going to make some tests to make sure all words covered

-Now to classifier variable which stores the training process so we got built-in function inside nltk called “NaiveBayesClassifier.train” so this takes our stored data in featuresets variable and then analysis it to make a relation between them so the words that contains chat “x” are likely to be a (Male/Female) and he stores these information in “classifier” var

-then in line 35 we get the process to run and predict is it male or female that’s’ why we still use variable classifier because it has the trained module so its comparing the results and get prediction

-line 36 is an additional line that tells us our learning rate and how accourate our result is

-and Finally we store result in variable called “result” at the context so we can get that back to out HTML File