**IMPLEMENTATION:**

**MODULES:**

* User
* Admin
* Training
* Machine learning Results

**MODULES DESCRIPTION:**

**User:**

The User can register the first. While registering he required a valid user email and mobile for further communications. Once the user register then admin can activate the user. Once admin activated the user then user can login into our system. User can upload the dataset based on our dataset column matched. For algorithm execution data must be in float format. Here we took food image dataset for testing purpose. User can also add the new data for existing dataset based on our Django application. User can click the Classification in the web page so that the data calculated Stock Price Predict based on the algorithms. User can click Prediction in the web page so that user can write the review after predict the review That will display results depends upon review like positive, negative or neutral.

**Admin:**

Admin can login with his login details. Admin can activate the registered users. Once he activate then only the user can login into our system. Admin can view the overall data in the browser. Admin can click the Results in the web page so calculated Accuracy based on the algorithms is displayed. All algorithms execution complete then admin can see the overall accuracy in web page.

**Predicted Classes:**

For training process I am collecting the images of the food of Apple pie, Baby back ribs, Baklava, Beef carpaccio, Beef tartare, Beet salad, Beignets, Bibimbap, Bread pudding, Breakfast burrito, Bruschetta, Caesar salad, Cannoli, Caprese salad

Carrot cake, Ceviche, Cheesecake, Cheese plate, Chicken curry, Chicken quesadilla, Chicken wings, Chocolate cake, Chocolate mousse, Churros,Clam chowder,Club sandwich, Crab cakes, Creme brulee, Croque madame, Cup cakes

Deviled eggs, Donuts, Dumplings, Edamame, Eggs benedict, Escargots, Falafel

Filet mignon, Fish and chips, Foie gras, French fries, French onion soup, French toast, Fried calamari, Fried rice, Frozen yogurt, Garlic bread, Gnocchi, Greek salad

Grilled cheese sandwich, Grilled salmon, Guacamole, Gyoza, Hamburger

Hot and sour soup, Hot dog, Huevos rancheros, Hummus, Ice cream, Lasagna

Lobster bisque, Lobster roll sandwich, Macaroni and cheese, Macarons, Miso soup

Mussels, Nachos, Omelette, Onion rings, Oysters, Pad thai, Paella, Pancakes

Panna cotta, Peking duck, Pho, Pizza, Pork chop, Poutine, Prime rib

Pulled pork sandwich, Ramen, Ravioli, Red velvet cake, Risotto, Samosa, Sashimi

Scallops, Seaweed salad, Shrimp and grits, Spaghetti bolognese,

Spaghetti carbonara, Spring rolls, Steak, Strawberry shortcake, Sushi, Tacos

Takoyaki, Tiramisu, Tuna tartare, Waffles so these are all the classes per class I collected images and each image resolution was 320x240 so these are all images saved in media folder.this dataset collected from kaggle repository. While defining the models we have to read the images from the media folder. To read I am using open cv2 module. Convolution is a mathematical operation on two objects to produce an outcome that expresses how the shape of one is modified by the other. With this computation, we detect a particular feature from the input image and get the result having information about that feature. This is called feature map.

**Deep learning Results**:

Based on the split criterion, the cleansed data is split into 60% training and 40% test, then the dataset is subjected to four machine learning classifiers such as SqeezeNet and VGG-16. The accuracy of the classifiers was calculated and displayed in my results. The classifier which bags up the highest accuracy could be determined as the best classifier.