# Py4-Team4

# Team Number:04

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# TEAM PROJECT: e-CRM (Django based)

**Domain Name: Rural development/Management**

**Project Description:** Everyone in the world wants to have their own home, where they can live and enjoy their life in calm and peace. So for the sake of it, they buy a home readymade or buy a plot and start making a house on that by their own. In both cases, the construction material must be brought at the site and becomes very relevant. Usually, it’s very hard for the people to bring it to their places. Sometimes the material isn’t available or sometimes it’s not feasible to arrange the material to bring at the site. So, to cure this problem, we come up with the system which can solve this uncertainty. With this website, the users and vendors of material sellers come on the same platform and where vendors can manage their stock which they have available and users who have the desire to buy material, they can see the availability of the material at particular place of shop and can give order to buy the desired amount of material; for instance, the quantity of sand, quantity of cement, number of bricks. As the user confirms the order, he/she gets the option to deliver the specified materials at the required site. This is a good feature of this system as one can see the progress of the material loading in the particular vehicle, sending and the arrival of the material to the required place at the given time.

In this way, the system can help the user and admin to take care of the stock, orders and manage it to load in the vehicle and transport to the clients’ or users’ destination.

The work of the website is divided in three modules:

1. Admin
2. Manager
3. User

**1. Admin**

Admin has the authority to control the flow of the data from one part of the system to another. He/She has the power to manipulate the access of the users to the data. The main purpose of this account is to make the user data relevant and then give the inputs to the other interface module and make it work optimistically and get the time table according to the wish we want to create for a particular type of input. Hence, all the data will be reflected with clean and well data in the interfaces.

Admin can create new projects , add material , see daily reports , see customer details, contact customers (and many more things). We can put price system (for example, admin can see total price of material or add total price of material).

**2. User**

Users are the actors of the system who can give orders according to their construction requirements. If a user visits our website and he/she likes our project, then he/she can check the details. To see any details, the user has to register and be logged in into our website.

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**3. Manager**

Managers are one of the important actors of this system . Managers manage their assigned project. Managers can send daily updates for particular projects to the admin.A manager can also send the issues related to a project . A manager can request the admin for more/ less material. These are some of the features of a Manager and more will be added as and when required.

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# **Python Team Plan**

## **Monthly Goals/Plan**

### **June**

Python Fundamentals(June 10 - June 31)

### **July**

July 01 - August 09: Participants will learn the basics of Django and work on the Project of “ Goal Setter App.”

They will also learn basic knowledge of Software Engineering viz., UML diagrams of **Class, Object, UseCase,E-R** for the project.

### **August**

### August 09 - August 30:Participants will learn new modules and advanced concepts in python.

Topics covered include:

**Advanced Topics:**

**Decorators 1(Covered in functions)**

**Regex 2-3**

**Multithreading 2-3**

**Urllib 1**

**Tkinter 1**

**Dbms connectivity(MySql + MongoDB)(Covered in Django)**

**Django**

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## **Weekly Goals/Plans**

### **June**

June 5 - 10: Getting to know each other, learn Slack.

June 11 - 12: Python basics, data types, control statements.

June 13 Morning: Quiz on Previous sessions; Evening : continue Python sessions on Python Data Structures

June 13- 18: Python data structures and functions(decorators).

June 19 Morning: Quiz on Previous sessions; Evening: Python Oops

June 19 - 24 : Python oops(classes and objects, inheritance, abstraction, duck-typing philosophy.)

June 25 - 30: Python exception handling, modules, packages.

**July**

July 1: Time to review Python Fundamentals, Doubt session in Evening

**Django:**

July 02 Django Introduction

Features

Installation

Django Project

Virtual environment setup

Admin interface

Django app

Architecture

July 03 URL mapping

Static files handling

Modelform

Django forms

July 04 Database connectivity

Database migration

July 05 Django middleware

July 06 Template integration

**Teamwork(Everyone will be engrossed in this activity)**

July 07 Revision time for Django

July 08 - August 09 Project work

July 08 Starting Project

July 08-15 Project Phase-1: Learn and Create Class, Object, UseCase,E-R UML diagrams for the project

July 08 - 09 Learn and Create Use Cases, E-R, UML diagrams

July 15-31 Project Phase-2: Actual Creation of the Website

### **August**

**Django:**

August 01-09 Project Phase-3: Testing and Touch-up

Advanced Concepts

August 10 - 12: Modules and Regex

August 13 - 14: Introduction to Image Processing with Python (Opencv)

August 15 - 16: tkinter

August 17 - 19: Performing Image Enhancement operations on Images(filters)

August 20 - 29: Introduction to Data Science(numpy, matplotlib, pandas, seaborn)

August 30: The Zen of Python and What’s next

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# Schedule:

## Milan :

June 18-23 Python data structures and functions(decorators).

June 24 : Quiz-2, Challenge - 2

July 08 - 09 Learn and Create Use Cases, E-R, UML diagrams

August 16-18 Modules and Regex

August 21-22 tkinter

August 30: The Zen of Python and What’s next

## Palkita:

June 11 - 12: Python basics, data types, control statements.

June 19 - 24 : Python oops(classes and objects, inheritance, abstraction, duck-typing philosophy.)

June 25 - 30 : Python exception handling, modules, packages.

August 20 - 29: Introduction to Data Science(numpy, matplotlib, pandas, seaborn)

## Pooja Patel:

June 13 Morning: Quiz on Previous sessions; - python basics (data types and control structures)

June 19 Morning: Quiz on Previous sessions -python data structures and functions

July 1 Morning: Quiz on Previous sessions - OOP

August 13 - 14: Introduction to Image Processing with Python (Opencv)

August 17 - 19: Performing Image Enhancement operations on Images(filters)

## Pooja Mishra:

July 02 Django Introduction

Features

Installation

Django Project

Virtual environment setup

Admin interface

Django app

Architecture

July 03 URL mapping

Static files handling

Modelform

Django forms

July 04 Database connectivity

Database migration

July 05 Django middleware

July 06 Template integration