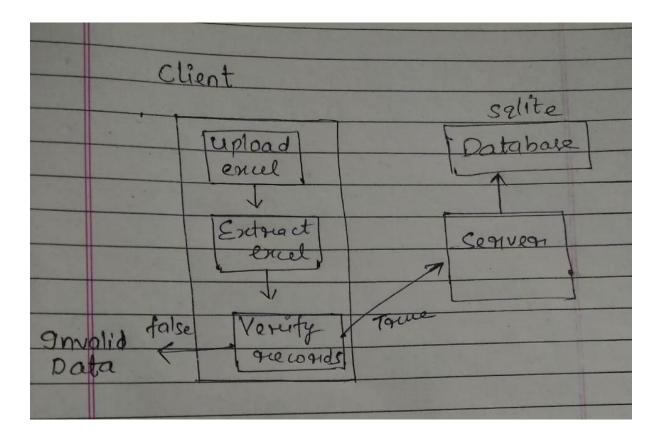
Steps:

- 1. Make a view where user can upload the xls file.
- 2. Open the file with openpyxl.load_workbook(filename).
- 3. Extract, create dict to map the data you want to sync in db.
- 4. Use the models to add, update or delete the information.



1. Make a view where user can upload the xls file.

Code of Html page to upload xls file:

```
required="required">
           <input type="submit"</pre>
                  value="Upload"
                  style="border: 1px solid green; padding:5px; border-
radius: 2px; cursor: pointer;">
       </form>
       <hr>>
       {% for row in excel data %}
           {% for cell in row %}
               {{ cell }}  
           {% endfor %}
           <br>
       {% endfor %}
   </body>
</html>
```

2. Database Model in Django to upload data:

```
# Create your models here.
class student(models.Model):
    reg = models.CharField(max_length=20)
    ses = models.CharField(max_length=20)
    sem= models.DecimalField(max_digits=12, decimal_places=2)
    sem_type = models.CharField(max_length=20)
    prog = models.CharField(max_length=20)
    bran = models.CharField(max_length=20)
    spi = models.DecimalField(max_digits=12, decimal_places=2)
    p_cpi = models.DecimalField(max_digits=12, decimal_places=2)
    cpi = models.DecimalField(max_digits=12, decimal_places=2)
    result = models.CharField(max_length=20)
```

3. Open excel file and extract data:

```
from django.shortcuts import render
from django.http import HttpResponse
import re
# Create your views here.
import openpyxl
```

```
from read_excel_file_save_database.models import student

def index(request):
    if "GET" == request.method:
        return render(request, 'index.html', {})
    else:
        excel_file = request.FILES["excel_file"]

    # you may put validations here to check extension or file size

    wb = openpyxl.load_workbook(excel_file)
```

4. Check whether registration no. of of the form registration_year - CS - enrollment no:

```
row no=0
        for row in worksheet.iter rows():
            row_data = list()
            for cell in row:
                if cell.value!=None :
                    row_data.append(str(cell.value))
            if not row_data or row_no==0:
                excel_data.append(row_data)
                row no+=1
                continue
            st = student()
            st.reg = row_data[0]
            st.ses = row_data[1]
            st.sem= row_data[2]
            st.sem_type = row_data[3]
            st.prog = row_data[4]
            st.bran = row_data[5]
            st.spi = row_data[6]
            st.p_cpi = row_data[7]
            st.cpi = row_data[8]
            st.result = row_data[9]
            n = 4
            myset = {"DN","BM","BT","CL","EN","GE","ST","CM","CC","CS","EE","P
E", "EM", "FE", "GI", "IS", "MT", "PR", "TR", "VL", "PS", "PD", "TH", "SP", "SW"}
            split = [st.reg[i:i+n] for i in range(0, len(st.reg), n)]
            match = re.match(r'.*([1-3][0-9]{3}))', split[0])
            if match is not None :
                if split[1] == "PTSW" :
                    st.save()
                    excel_data.append(row_data)
                else :
                    n1=2
                    str1=split[1]
```

if registration no. is of given form then we save the data of that row in database and print the same data on screen and if the registration no. is not of the given form then we print Invalid Data of row no.