**Pseudo code solution design:**

**Calling data files**

Call the function.php inside the include folder

Call the 2 data files with extension.txt only

**reading file names**

Use arrays to read the filenames.

**start to create dynamic html file**

Use echo to build start of html file:

Echo html   
Echo <head>

Echo <head>  <title>Title of the document</title>

Echo </head>  
Echo <body>

**loop on number of files found in the directory**

array to get students and marks included

array to store marks of students

variable to store number of students

variable to store number of header errors;

variable to store number of student data errors;

assign variables for merit:

distinction = 0

merit = 0

pass = 0

fail = 0

**Checking file path**

checking file extension if it txt or not and getting file name from directory+file name e.g. Data/name.txt

**Opening file**

Open file reading line by line making sure to break the first header into array.

**Module code Part**

If no code is given

Error;

If 2 char code are not PP, P1 or DT

Error;

Else

Module code is fine;

**Module title code**

If no code is given then error.

**MARK DATE CODE**

If date doesn`t match the regex for date type DD/MM/YYYY it will show error

**CHECKING STUDENT ID & CHECKING STUDENT MARKS**

If ID is not numerical & If length of ID is less than 8.

**calculating Distribution of module marks**

If mark >= 70

Distinction += 1;

elseif marks >= 60 & marks <70

merit+=1 ;

elseif marks >= 40 & marks <= 59)

pass += 1;

else

fail +=1;

**displaying grades distributions**

echo Distinction

echo merit

echo pass

echo fail