1. API to list the products

User should be able to select number of products per page

User should be able to navigate from page to page or NextPage and PreviousPage

Expected:

Input Format and Parameters

Output format and sample response

Source code

Time: 30mins

Input format: <http://hostname:port/api/products/per_page:next:prev>

Output format: json

Sample output: [{‘product\_id’:1, ‘product\_name’:’abc’},

{‘product\_id’:2, ‘product\_name’:’cde’}]

Code:

#imports

from flask import Flask

from flask\_restful import Api, Resource, reqparse

from flask.ext.paginate import Pagination

app = Flask(\_\_name\_\_)

api = Api(app)

def get\_products():

"""

fetches product details from database below sample is hardcoded

to be implemented

"""

products = [{'product\_id': 1, 'product\_name':'abc'},

{'product\_id':2. 'product\_name':'cde'}]

return products

class MApi(Resource):

def get(self):

parser=reqparse.RequestParser()

parser.add\_argument('per\_page', type=int)

parser.add\_argument('next', type=bool)

parser.add\_argument('pre', type=bool)

return parser.parse\_args()

api.add\_resouce(MApi, '/product', endpoint='product')

@app.route('/product')

def products\_page():

num\_items = requests.get('per\_page')

n = requests.get('next')

p = requests.get('pre')

all\_products = get\_products() # will return list of all products

current = 0

if n:

to\_return = all\_products[current:(current+num\_items)]

current+=num\_items

return to\_return

elif p:

to\_return = all\_products[abs(current-num\_items):current]

current-=num\_items

return to\_return

else:

to\_return = all\_products[0:num\_items]

current+=num\_items

returnto\_return

if \_\_name\_\_=='main':

app.run(debug=True)