

ANKA Business Support Services

ANKA business support services is an NGO that seeks to provide support for interested startups. The support services include awarding the best performing participants with points, recognition and promoting their products on the home page. Individuals interested in joining the competition are required to use a command line interface, which is designed in java programming to enter their registration information including name, password and date of birth. The participant while using the same command line interface posts their products, description of the products, indicating available quantities and rate per item. Note that a participant can only post one kind of product. If they try to post another, the system rejects it. Once published, customers start booking the products of interest for delivery to their specified addresses. The quantity of products booked are deducted from those that were published, hence a reduced stock. Customers can book for the products of interest using a web interface. While there, they can also browse and see participant details. No images are posted against the product but customers use the description to make the decision. Therefore, participants are encouraged to be innovative in their products and in their description. A customer may return and buy a product again after they are satisfied with what they bought earlier. All customer transactions are performed using the web interface. For every product bought, the participant earns one point, for a customer returning to buy one item of the product, the participant gets 2 points while if a return customer buys more than one product at the same time, the participant earns 4 points. For that sale These points are added up every time a sale is made on a particular product. Since the participants do not access the web interface, whatever they enter on the command line interface is inserted into a file. There is a cron job that periodically picks this information from the file and inserts it into the database. Additionally, if a participant makes a request for updates on their performance, the request is inserted into a file and the next time the cron job runs, the answer to the request is put in the file for the participant to see. That is, the cron reads the request, picks the requested data from the database and inserts it into the file, for the participant to see the next time they visit the system. Time when request was made, Time when request is responded to and time when the participant sees the response are all kept in the database. Additionally, on requesting for anything, the participant is informed on when the information will be available. A participant can publish more products when they get them.

Below are the commands that the participant can run on the command line in the order in which they are presented. **Note: *The menu should be as indicated below with spaces in between the arguments. Don't***

Register *name password product date_of_birth*

Post_product *product_name "description"*

Performance

When performance is entered at the command line, the participant see information including rank (position out of all participants), points earned, how many products left, how many return buyers

On the web interface, an administrator can login to see the reports generated from the competition (**Identify all possible reports and present them in form of tables, dashboard and graphs in the web interface**). Such reports include percentage sale computed as total number of products bought/total published) *100. ETC. The best performing participant is given an award. This award is mentioned on the home page. And also, when the respective participant logs in, they see their reward. The reward is maintained for as long as no other participant takes first position.

Assignment / What to do

In groups of 5 people (Use google link provided https://docs.google.com/spreadsheets/d/1fXdfretLTYdDoG1ejgC7_2fZFDzNwCIw/edit?usp=sharing&ouid=112023987947581394086&rtpof=true&sd=true), do the following

Register for updates on muel course name BSE 1301 **BSE 1301:** **Professional Min SE Practical Project 1**

- 1-
- 2- Find all content for the course here. <https://drive.google.com/drive/folders/1aJ6P5wqx4GyhFHSCP95vN8pWch77709o?usp=sharing>
- 3- Write a design document for the above system (Deadline 10th September 2022- link on muel)- **Use design document template for the format of the design document.** Show your group numbers on the document
- 4- Implement two interfaces including web system (**Use Laravel Framework ONLY for web development**) <https://laravel.com/> and java interface (24th September 2022)
- 5- Presentation (24th and 26th September 2022)- **marks to be awarded on system during presentation. Individual assessment to be done during presentation. Whoever does not turn up for presentation will not get any mark.** Indicate what each member does.

Updates on the course will be sent via email. You are therefore requested to provide the right email address

Anyone who will be got copying will have to be cancelled from the course.

Zoom link in case of the online classes.
<https://zoom.us/j/92395549177?pwd=aGtGaXdaQldxQTFTZDVJL2c5UkQ4UT09>

We have a zoom class tomorrow 5th September 2022 at 2pm

I will also schedule some physical classes to guide you.

Coordinator Contact

mnsabagwa@cit.ac.ug Mary Nsabagwa – Strictly use email for all the communication you make