WorkConnect:On-Demand-Service Worker Platform

Revolutionizing how people find and hire skilled workers.

OBJECTIVES:

Create a Front end for a software solution to improve supply purchases, finalizing solutions that allow planning supply and predicting planes’ loads with food.

EXPECTED OUTCOMES:

* Create sustainable purchase chains.
* Ability to make alterations and make supply chain predictions using forecast templates.
* Flight station managers receive accurate information about the food load on a particular plane
* Visualization of the aircraft kitchen environment.
* Catering companies build stable supply chains with no food surpluses or shortages, warehouse stock waste, and delivery delays.

CHALLENGES AND THE NEED FOR A SOLUTION:

The company suffered losses due to ineﬃcient food supply chains, warehouse stock deterioration, and delivery delays. Therefore, the food provision and distribution process needed serious improvements. Students need to deeply understand how to satisfy the demand for supply chain accurate calculations. The software deployed should incorporate modern realities and allows integration with third-party services.

SOME REQUIREMENTS:

# Supply Chain Service (SCS)

The main functionality of SCS is to visualize the aircraft cabin of a flight, kitchen (galleys, trolleys), racks, refrigerators, galley stoves, carts, and other supplementary surroundings to calculate the average food load. Then this data accumulates to make forecasts for other flights if the conditions are similar (the same plane models, number of registered passengers, etc.).

The service generates reports on food products load and sends them to catering companies and station managers. These statistics serve as the template to make informed decisions on how much food should be purchased to satisfy passengers’ and crew’s needs as eﬃciently as possible designed a user-friendly interface

# Food On Board Platform (FOBP)

FOBP gathers information from third-party services about scheduled flights and predicts the plane’s load with food considering individual menus for certain passengers, cabin class, and other parameters of a particular flight. Subsequently, the forecasts are reported to the catering companies or flight station managers, which, in turn, provide the board with food. FOBP scans the information in open sources about planned flights (e.x. websites of the airlines, etc.). Then the service receives a message (via a message broker) with information that, suppose, in 17 days, flight number XXXXXX 0000 will fly from London to New York, and there are N economy class and M business class passengers. This message passes through the chain of service handlers that implement various forecast correction strategies. Finally, the forecast is stored in the system and transmitted to the catering company. The platform should allow development of strategies for adjusting the forecast and viewing the history, status, and forecasting effectiveness.