University College London
COMPGC01 Java Programming

Restaurant Management System
Functionality Overview

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Overview of implemented features

1. **General**

- **Search by keyword**
    - o Allows user to select a filter by which to search
    - o Automatically updates table, no need to hit an enter key

- **Search by time**
    - o Allows user to search by a time frame: User can select date and time
    - o User cannot select an end day <u>before</u> the start date
    - o User can chose to type only hours (e.g. start time: 2), or hours and minutes (2:30) or hours, minutes and seconds (2:30:10). Search query always adapts to user command

- **Automatic button hiding**
    - o Buttons such as delete, export and update are only enabled when a corresponding item is selected
    - o If no eligible item is selected they are disabled

- **Deletion confirmation**
    - o Asks for confirmation when user deletes an item

- **Popup messages**
    - o When user adds or modifies an element and enters incorrect details, the system does not execute the command and opens a popup showing what has been done incorrectly

2. **Login Page**

- **Dual accounts**: manager and employee can log in

3. **Employee Page**

Tables Tab

- Graphical representation of tables
- Automatic **update of table status**: if table is not taken it is marked as "available". If it is taken it automatically shows bill and order ID
- Automatically fills orders table when orders are available
- **Open order by clicking** on "available" table
- Continue order by **clicking on table again**

Takeaway Tab

- **Automatically check order status:** User can only "close" a takeaway order if its status is "pending" (not "closed")

4. **Order Page**

- **Automatic product data selection:** Allows user to select a category and products from ComboBoxes. Hence, product data such as price are automatically selected

- **Modifiable Menu**: Manager can add products and categories. Both ComboBoxes on the order page are filled with all data that manager has added. E.g. if manager adds new categories, the category list is expanded etc.
- **Automatically update table number, order Id**
- **Automatically calculate and update total bill**
- Automatically updates Suborder table
- Special requests possible
- Update or delete individual products/ suborders
- Close order button: makes table available for next guests
- Delete order button: deletes entire order
- **Saves all orders/ no orders lost:** item that is added in the order view is directly saved into database. If user (accidently) Sign-out the orders will not be lost
- **Saves order item**

5. Management Page

Employee Tab:

- **Activity Log**: click on employee to see activity log. Activities that are reported are open order, close order, delete order. In the "delete" case, the activity log shows whether the order was "PAID" (=closed) or "UNPAID" (= not closed) when it was deleted
- **Add employee**: when no row is selected the manager can type in user credentials to add new employee. When adding an employee it is ensured that **username is unique**
- **Changing employee:** when clicking on an employee, the TextField boxes are filled automatically, allowing user to modify the elements
- Import employees in comma-separated format: CSV. Allows user to choose file from Computer. Checks if the file is CSV format
- Export employees in comma-separated format: CSV.
- Delete employees

Orders Tab:

- Show all orders (orders at tables and takeaway orders)
- Clicking on orders shows suborders
- Import orders (takeaway) in comma-separated format: CSV. Allows user to choose file from Computer. Checks if the file is CSV format
- **Import rationale:** Importing an order because a takeaway order. Hence, it does not receive a table number but instead receives status "delivery". In the Employee view under takeaway tab, all takeaways are shown. Takeaways can only be added by the

manager. It is assumed that takeaway orders are placed by an online system which the manager feeds into the restaurant system by importing them

- Export orders in comma-separated format: CSV.

Menu Tab:

- **Changing item:** when clicking on an employee, the TextField boxes are filled automatically, allowing user to modify the elements
- **Add item**: when no row is selected the manager can type in user credentials to add new employee. When adding an employee it is ensured that **username is unique**
- When these are added, the **ComboBoxes** (drop-down boxes) on the Order page are **automatically updates**, showing the newly added items