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CS 4318

7/14/2024

**Project Database**

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1. **Mission Statement:** Create a database for a post office company should be easily accessible, modify, and optimize.
2. **Mission Objective:** A database for a post office company should be able to:

* User-friendly views for any types of users.
* Minimize complicated functions required by users for any actions such as modification or updating database.
* Fast access and protect integrity of each dataset.

1. **Abstract:**

The purpose of this project is to create a database for a post office company like FedEx or UPS. The database should be well optimized, easy to access, and modify. The database will have 7 datasets and will have super keys and foreign keys for linking and accessing each other dataset for handling information. For this database, there will be 3 main actors: customers/guests, employees, and managers. For the dataset, there will be 7 datasets: employees’ personal information, payment’s receipt, customers’ information, packages’ information, branches’ information, trucks’ information, and accounts’ information.

1. **List of Use Cases:**

* Employees’ personal information:

1. Use Case 1: Add Employee
2. Actor/User:
3. Steps:
4. User clicks on “Add Staff” button.
5. The dataset will generate id.
6. Wait for user to enter name, DOB, gender, job title, branch information, and phone number.
7. All information is displayed and wait for confirmation.
8. User clicks on “Confirm” button.
9. Use Case 2: Delete Employee
10. Actor/User: Manager
11. Steps:
12. User clicks on “Delete Staff” button.
13. The dataset will be displayed and ask who the user wants to delete.
14. User enters the id of the employee.
15. The information will be displayed and confirmed with the employee.
16. User clicks “Confirm” button.
17. Use Case 3: Edit Employee
18. Actor/User: Manager
19. Steps:
20. User clicks on “Edit Staff” button.
21. The dataset will be displayed and ask who the user wants to edit.
22. User enters the id of the employee.
23. The information will be displayed and ask which information the user wants to edit.
24. User will select the option and enter the new information.
25. The dataset will confirm the change and user clicks “Confirm” button.

* Payment’s Receipt:

1. Use Case 1: Add Receipt
2. User/Actor: Staff, Manager
3. Steps:
4. User clicks on “Add payment” button.
5. The dataset will generate ID of the payment and ask for payment information such as card numbers, totals, and tracking ID of a package.
6. Dataset will automatically save the new information.
7. Use Case 2: Delete Receipt
8. User/Actor: Manager
9. Steps:
10. User clicks on “Delete payment” button.
11. The dataset will ask which payment receipt user wants to delete.
12. User clicks on "Confirm” to process the deletion.
13. Use Case 3: Edit Receipt
14. Actor/User: Staff, Manager
15. Steps:
16. User clicks on “Edit Receipt” button.
17. Dataset will be displayed and ask which id the user wants to select.
18. User enters the id and make the change to the receipt.
19. Dataset will be displayed and ask for confirmation.
20. User clicks “Confirm” button.

* Customers’ Information:

1. Use Case 1: Add Customer
2. User/Actor: Staff, Manager
3. Steps:
4. User clicks on “Add Customer” button.
5. The id of the new customer will be generated and displayed.
6. User enters first and last name, phone number, and address.
7. Information will be displayed and waiting for confirmation.
8. User clicks “Confirm” button.
9. Use Case 2: Delete Customer
10. User/Actor: Staff, Manager
11. Steps:
12. User clicks “Delete Customer” button.
13. Dataset will be displayed and ask who user wants to delete.
14. User enters the id and shows the information of the id.
15. Dataset waits for the confirmation of the user.
16. User clicks “Confirm” button.
17. Use Case 3: Edit Customer
18. User/Actor: Staff, Manager
19. Steps:
20. User clicks “Edit Customer” button.
21. Dataset will be displayed and ask who user wants to edit.
22. User selects the id and ask what information user wants to edit.
23. User enters new information and asks for confirmation.
24. User clicks “Confirm” button.

* Packages’ Information:

1. Use Case 1: Add Package
2. User/Actor: Staff, Manager
3. Steps:
4. User clicks “Add Package” button.
5. Dataset will generate new id and displayed.
6. User enters package sender and recipient, address, package priority, and weight.
7. The information will be displayed and wait for confirmation.
8. User clicks “Confirm” button.
9. Use Case 2: Delete Package
10. User/Actor: Staff, Manager
11. Steps:
12. User clicks “Delete Package” button.
13. Dataset will be displayed and ask which package user wants to delete.
14. User enters the id and the dataset displayed and waits for confirmation.
15. User clicks “Confirm” button.
16. Use Case 3: Edit Package
17. User/Actor: Staff, Manager
18. Steps:
19. User clicks “Edit Package” button.
20. Dataset will be displayed and ask which package user wants to edit.
21. User enters the id and dataset asks which information user wants to change.
22. User enters new information and wait for confirmation.
23. User clicks “Confirm” button.

* Branches’ Information:

1. Use Case 1: Add Branch
2. User/Actor: Manager
3. Steps:
4. User clicks “Add Branch” button.
5. Dataset will generate new id and displayed.
6. User enters address, city, and state.
7. The information will be displayed and wait for confirmation.
8. User clicks “Confirm” button.
9. Use Case 2: Delete Branch
10. User/Actor: Manager
11. Steps:
12. User clicks “Delete Branch” button.
13. Dataset will be displayed and asks which branch user wants to delete.
14. User choose the branch and dataset ask for confirmation.
15. User clicks “Confirm” button.
16. Use Case 3: Edit Branch
17. User/Actor: Manager
18. Steps:
19. User clicks “Edit Package” button.
20. Dataset will be displayed and ask which branch user wants to edit.
21. User chooses the branch and dataset asks which information user wants to edit.
22. User enters new information and wait for confirmation button.
23. User clicks “Confirm” button.

* Truck’s Information:

1. Use Case 1: Add Truck
2. User/Actor: Manager
3. Steps:
4. User clicks “Add Truck” button.
5. Dataset will generate new id and displayed.
6. User enters plate numbers, start location, and destination.
7. User clicks “Confirm” button.
8. Use Case 2: Delete Truck
9. User/Actor: Manager
10. Steps:
11. User clicks “Delete Truck” button.
12. Dataset will be displayed and ask which truck user wants to delete.
13. User chooses the truck and shows information about the truck.
14. User clicks “Confirm” button.
15. Use Case 3: Edit Truck
16. User/Actor: Manager
17. Steps:
18. User clicks “Edit Truck” button.
19. Dataset will be displayed and ask which truck user wants to edit.
20. User chooses the truck and dataset asks which information user wants to edit.
21. User chooses the option and enters new information.
22. User clicks “Confirm” button.

* Accounts’ Information:

1. Use Case 1: Add Account
2. User/Actor: Dataset System (Employees’ Personal Information), Staff, Manager
3. Steps:
4. When a staff is added to the dataset (Employee’s Info), new id will be generated and copy user information (first and last name) to the dataset.
5. New information will be automatically saved in the dataset.
6. User will be asked to enter new password for the account.
7. User clicks “Confirm” button.
8. Use Case 2: Delete Account
9. User/Actor: Dataset System (Employees’ Personal Information)
10. Steps:
11. When a staff is deleted from the dataset (Employees’ Info), the dataset will update and delete id that is not available in the other dataset.
12. New information will be automatically saved in the dataset.
13. Use Case 3: Edit Account
14. User/Actor: Staff, Manager
15. Steps:
16. User clicks “Edit Account” button.
17. Dataset will be displayed, and user can choose which information they want to edit.
18. User enters new information and wait for confirmation.
19. User clicks “Confirm” button.