Maintenance Description

Title	Restaurant Reservation Application	
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Summary	It is a console-based restaurant reservation application that allows users to make reservations, change and cancel the booking based on the user's email, name, and contact number input. Basic representative functions include reservation, reservation confirmation, and reservation cancellation.	

User		
Language	CusReq.1	User can choose between English and German when they use the application - 1.EN / 2.DE
Enroll	CusReq.2	Select whether user wish to make a reservation
	CusReq.3	Enter existing customer registration confirmation information
	CusReq.4	Enter user's email / name
	CusReq.5	New customer registration with new email address / name / contact number information
	CusReq.6	Choose the menu that user want to perform 1-New Booking / 2-View Bookings / 3-Cancel Booking / 4-Change Booking /5-Logout / 6-Exit
Reservation	CusReq.7	When users want to make a reservation, select menu 1 - New Booking
	CusReq.8	Enter desired date
	CusReq.9	Enter desired time
	CusReq.10	Select the desired number of people
Confirm	CusReq.11	When users want to check reservation details, select menu 2 - View Bookings
Change	CusReq.12	When users want to change the reservation details, select menu 4 - Change Booking
	CusReq.13	Enter the reservation number users want to change and rewrite the Date, Time and Number of visiting people
Cancel	CusReq.14	When users wish to cancel the reservation, select menu 3 - Cancel Booking
	CusReq.15	Enter the reservation number users want to delete
Logout	CusReq.16	When users wish to log out of the program, select menu 4 - Logout
Exit	CusReq.17	When users want to end the program, select menu 5 - Exit

System			updated
Language	Impl.1	The application runs in English and German versions according to the user's selection.(1.EN / 2.DE)	○
Enroll	Impl.2	Print out the reservation request input line and get the string information	X
	Impl.3	Print out the line for the confirmation of the existing customer or new customer	-
	Impl.4	Get existing customer email / name string information from userdata.csv	○
	Impl.5	For new customers, print out the email / name / contact number input line, and receive string information and save it in userdata.csv	○
	Impl.6	Print out the menu 1-New Booking / 2-View Bookings / 3-Cancel Booking / 4-Change Booking /5-Logout / 6-Exit	-
Reservation	Impl.7	Get the numeric input(1) for making a New Booking command	-
	Impl.8	Print out the desired date input format and get *String* information. And save the data in book.csv	△
	Impl.9	Print out the desired time input format and get *String* information. And save the data in book.csv	△
	Impl.10	Print out the desired number of people input format and get *Numeric(int)* information. And save the data in book.csv	△
Confirm	Impl.11	Print out the reservation details and save the booking data in userdata.csv	○
Change	Impl.12.1	Get the reservation number(numeric information) users want to change and print out the booking information from book.csv	○
	Impl.12.2	Print out the new booking date input format, get new *String* information from the user and save the updated data in book.csv	○
	Impl.12.3	Print out the new booking time input format, get new *String* information from the user and save the new updated data in book.csv	○
	Impl.13	Print out the new number of people input format, get new *Numeric(int)* information	○

		from the user and save the updated data in book.csv	
Cancel	Impl.14	Print out the cancelable reservations	**-**
	Impl.15	Get the reservation number(numeric information) users want to delete and process	△
Logout	Impl.16	Stop operating with the current logged-in user's email address	**-**
Exit	Impl.17	End the program	**-**
Problems		Based on the initial plan of the project, some functions below were not implemented.	

01. No name and contact number input function
02. Email input form not given
03. Whether user wants to make a reservation Yes/No does not work (Even user enters 'No' it goes to reservation step)
04. Reservation Date and Time input form is not given
05. No error when reserving 0 seats (at least one seat must be made unconditionally)
06. Changing the reservation details function has not been developed
07. Reservation data is not saved and reset to the first time

Goal 1	**Develop the Initial Function**
Developed part ①	**CusReq.5 / Impl.4 ~ 5**

According to the initial draft of the project plan, all users need to provide when booking is their email address, name and contact information. However, we have checked that the code originally developed works based on email addresses and passwords. Accordingly, the 'Customer Registration' function has been modified according to the initial plan. If a user needs to register as a new customer to reserve a table, they can now enter their email, name and contact information.

Developed part ②	**CusReq.8~9 / Impl.8 ~ 9**

Also, the input form for the date and time did not exist when booking the table. Therefore, in order to improve the unity and convenience of reservation information management, a specific input form was given to the relevant part and developed. If the user does not fill in the Date (yyyy-mm-dd) and Time(hh:mm) forms, it will return to the beginning of the reservation stage.

Goal 2	**Implement the New Feature**
Implemented part ①	**CusReq.1 / Impl.1**

A new feature not included in the initial project plan is the language selection feature. After considering what users might want when using the Weimar restaurant reservation application, we have decided to add a language selection feature, taking into account the usability of foreign visitors, and implementing it. For this purpose we add a global variable that is setup in the first screen of the application. The user can select between German and English depending on a numeric value between 1 and 2 provided by the questionnaire. This property from the class Language its updated in all the screens where a conditional check what version of the text is required to display.

Implemented part ②	**CusReq.12 ~ 13 / Impl.11 ~13**

Plus, previously developed applications did not have a function to store the user's table booking data. Therefore, there was the inconvenience of not being able to check the reservation data entered in the past whenever the program was operated. We have focused on this problem and in order to promote the usefulness of information management of customers who use restaurant reservation apps, the corresponding feature is newly added.