

Manager museums

Description:

“A manager of a museums chain want to manage his museums to provide the customers chance to book their reservation online”.

The application is reserved for manager’s employees which have the task to offer necessarily assistance to booking tickets, check or cancel a reservation. The application has a GUI interface created in Python language using Tkinter inbuild lybrary.

The user need to first log in the app with user and password(these information are found in .txt file “Login informations”). Password field is marked with asterix (“*”) to provide security when typing the password. To reveal the this field press “eye key” and asterix will be converted to normal text input. The app need to be connecte database to be able to open it. If not connected an error window will pop up that can direct you to “Xampp Control Pannel” app to make connection possible. To connect press “Start” button for “MySQL” and “Apache” options. Additionally press “Admin” for “MySQL” to consulte the database with its table. When application is open a main window will appear where three menus are available: “Booking”, “File” and “Statistics”.

In the “Booking” menu two options disposale: “Buy ticket” and “Check/cancel reservation”.

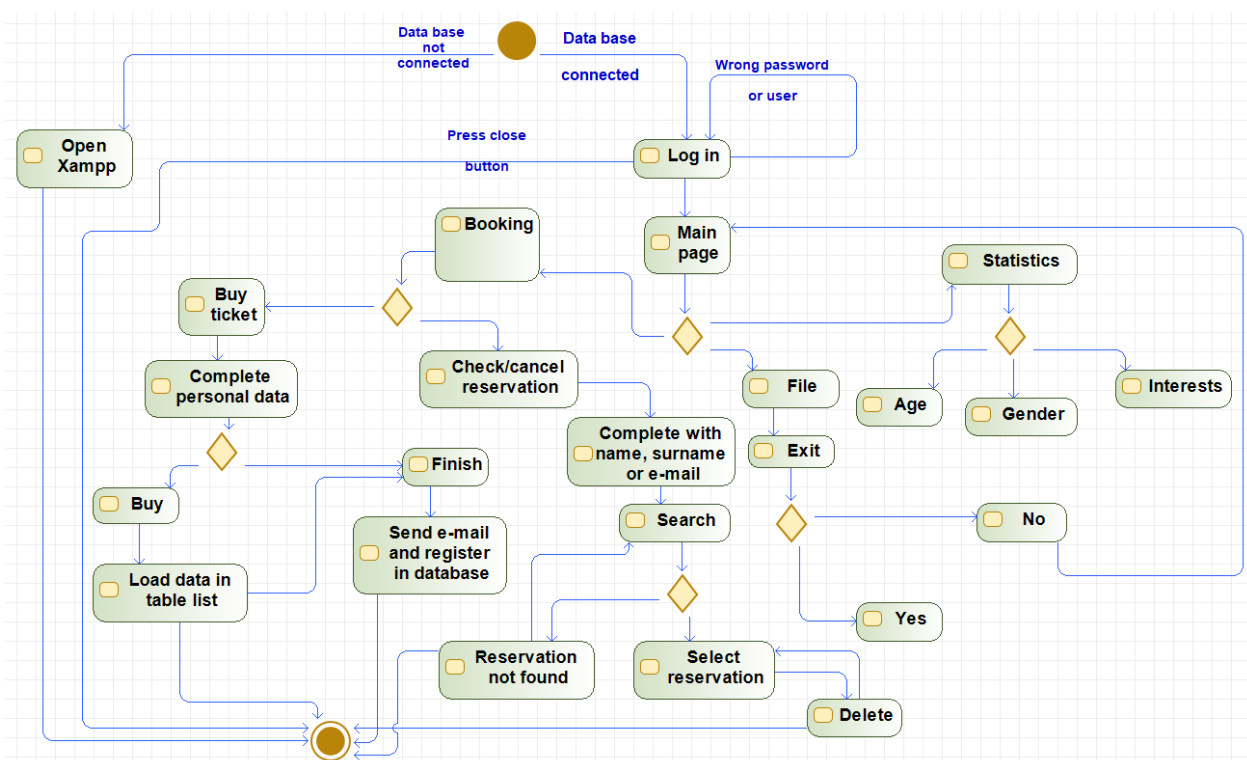
“Buy ticket” will open two windows: one for input registration that provides all informations needed for reservation: name, surname, age, gender, museum where what reservation, phone number, promotional code, e-mail and date of reservation. Age and gender are requested for statistical propose. On the right side, another window will store all the reservation before complete, because there can be done multiple reservations at the time. Age field also provides a discount for the ticket as follow: age < 3(free ticket), age >= 3 and age < 8(discount 75%), age >= 8 and age < 14(50% off – student card required), age >= 14 and age < 18(discount 25% – ID card neede) and for age > 18(full price ticket – with chance for discount 10% if valid promotional code included). When all reservations are completed, press “Finish” button to send the all reservations into the database(reservations from the list will be removed). Finishing the reservations will end up with an e-mail to the customers. Because the application doesn’t provide payment possibility but only reserve tickets the client need to check his mail inbox to finish the reservation. The e-mail will contain the full name or the client, the musem where reserved the ticket and date of reservation. Also in e-mail will be accesible a link to the website for payment confirmation. Name and card number have to be filled to finish payment.

In “Booking” menu the other option “Check/cancel reservation” can be found. In this option two windows will pop up to provide necessarily informations to find and delete a reservation. On the left side the user can complete with name or surname or e-mail to find client’s reservation. The results will appear in a list on a window in the right side. Select reservations to cancel them and press delete button to complete the operation. The customer can change his mind and it complete with other name or surname or e-mail the list will refresh.

In the “File” menu a single option is available, “Exit” that will open a window to close the application. The user can choose either “Yes” or “No” to complete this action.

“Statistics” menu has three options that provides statistics types by “Age”, “Gender” and “Interests”. By “Interests” mean the four types of museums available: “Medieval”, “Art”, “Science” and “Botanic” from different cities from Europe. Statistics are represented with pie-chart diagrams.

Activity diagram:



Resources needed:

To make the app usable “Python” executable program has to be install. Also to have access to the database the “Xampp Control Pannel” app need to be available on the machine the application is running on. These two programs can be dowloaded at the following addresses:

<https://www.python.org/downloads/>

<https://www.apachefriends.org/download.html>

Also to view e-mail sent to the clients, login to the e-mail address reserved for this application propose. User and password are provided in the same “Login informations” file.

Features implemented and future ideas for improvement:

The applications is working as GraficalUserInterface(GUI) app and come up with a user friendly windows with images, buttons and diagrams for statistical propose. On the “Login” page the window is fullscreen so to close it just press the close button in the top-left corner. Statistics provides percentages and labels for each case(ex: “Male” and “Female” for gender stats) and the biggest proportion is separated from rest of pie-chart. The website enforce client to fill all fields in order to complete payment. On the main menu, in the background will be putting on view a set of 12 images of the four types museums.

For future implementatins the interface can be improved with more stylish buttons and windows. For “Booking” menu, in the “Buy ticket” section can be implemented a feature for deleting from list reservations before complete reservation, in case customer get wrong something.