

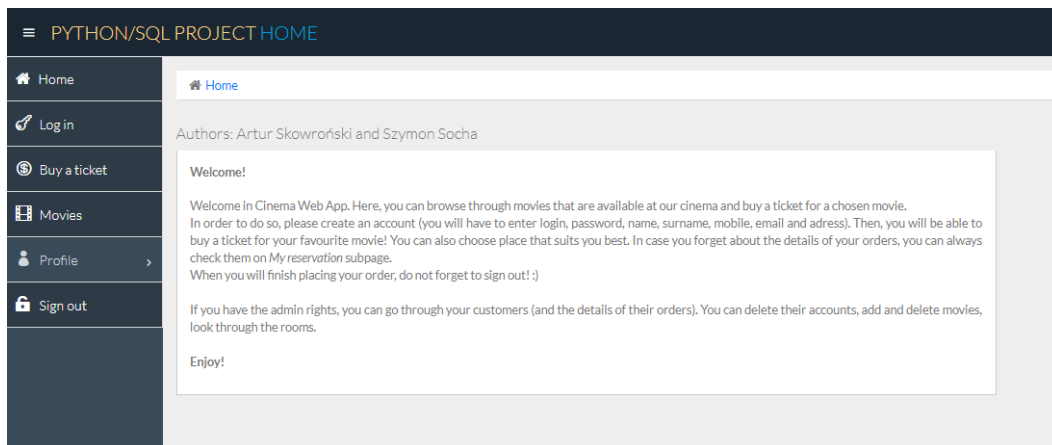
1. Short Description:

Our project is an online ticket reservation system for selected movies at the cinema. The functionality of our site is divided into 3 parts: visitor, user and admin. The ability to buy tickets exists only for registered customers who have a possibility of choosing the right seat, selecting tickets based on price, and even choosing the payment method.

Admins, on the other hand, have a full range of capabilities such as repertoire modification and access to basic statistics on ticket redemptions. Detailed descriptions of all the features of our site, are described in the following sections. Additionally, in brackets, we have placed the routing of our subpages to make the code easier to read.

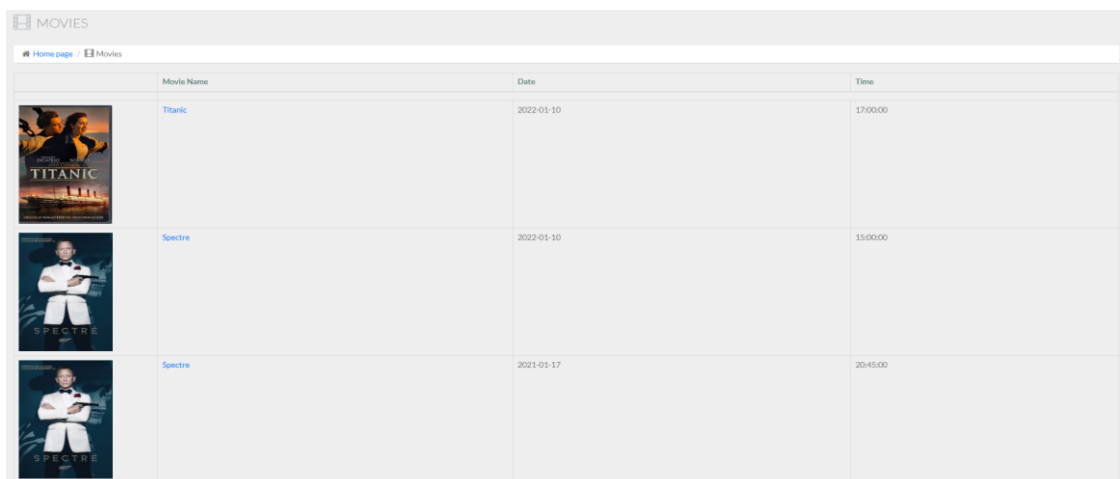
2. Guest perspective:




Home is our starting page, where short description of our cinema is displayed. What's more, on the left side of our page there is a menu navigation panel.



Movies

However, if user is not logged in, he/she can just see the current movies, that are played in our cinema (/movies). Guest can see the title of the movie, the screening date, and the start time. If guest presses on the movie titles, he/she will additionally see some short information about the given movie, e.g. the genre, the main actor and a short description of the movie (/movie/<film:path>).



Movie Name	Date	Time
 Titanic	2022-01-10	17:00:00
 Spectre	2022-01-10	15:00:00
 Spectre	2021-01-17	20:45:00

In order to obtain full use of our website, the user need to be logged in (/login). If a visitor to our site does not have an account, in order to buy a ticket he/she must create one (/register).

Login

PYTHON/SQL PROJECT LOGIN

Home Log in Buy a ticket Movies Profile Sign out

LOG IN

Home page / Log In

Login:

Password:

Submit Register

Things like unique login, password, name etc. are required and cannot be left empty, otherwise, the account creation action will be stopped. After filling in all the data, all you have to do is click the save button.

Registration

PYTHON/SQL PROJECT CREATE NEW ACCOUNT

Home Log in Buy a ticket Movies Profile Sign out

CREATE NEW ACCOUNT

Home page / Log In / Create new account

Login:

Password:

Name:

Surname:

Mobile:

Email:

Address:

save

After succesfull authorisation, the user will get information that he/she has logged successfully (/login_suc).

Congratulations, jan123! You logged in successfully!

Login:

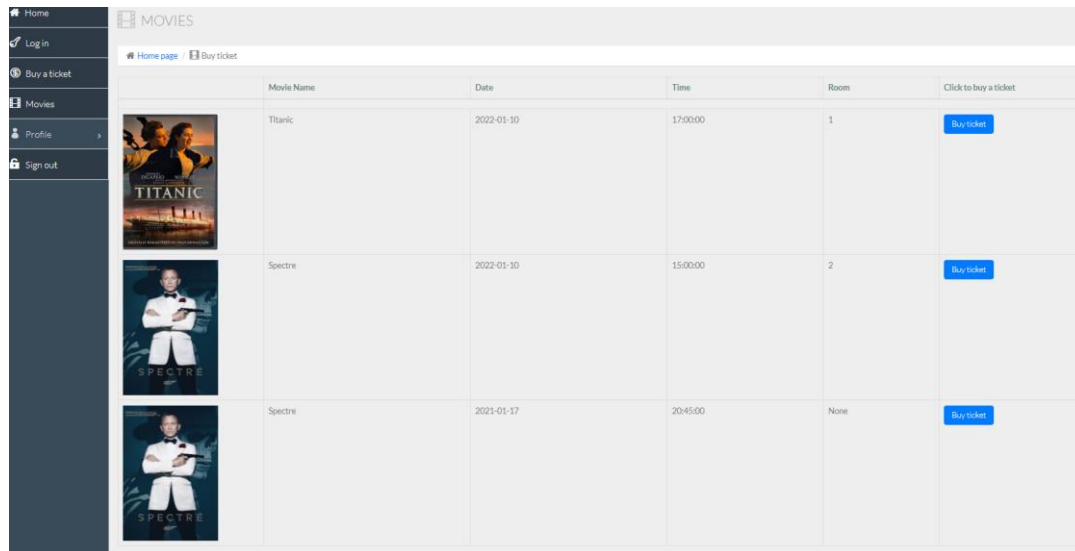
Password:

Submit Register




3. User perspective

In this section, we will introduce the process of buying a ticket by a logged-in user. The page where you can buy tickets, looks similarly to the page where you can see the movies played in our cinema. If you want to reserve seats, click the "buy a ticket" button on the item of your choice (/buy).

Buy a ticket



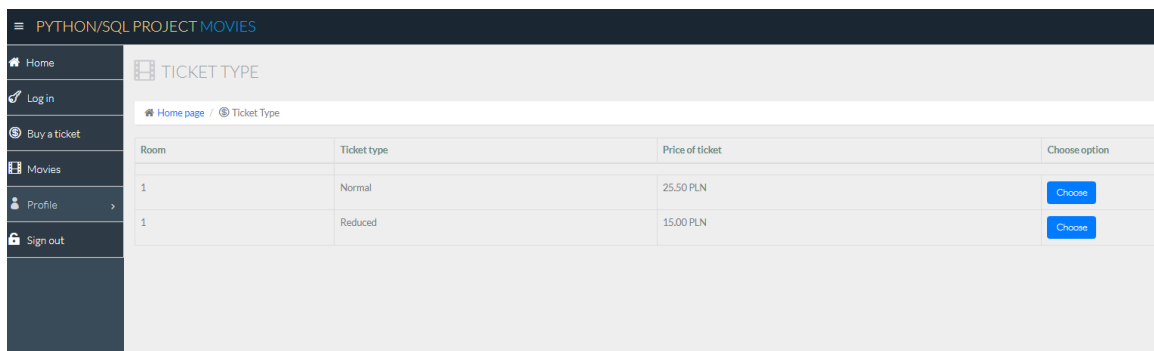
The screenshot shows a web application interface for a cinema. On the left is a dark sidebar with navigation links: Home, Log in, Buy a ticket, Movies, Profile, and Sign out. The main content area is titled 'MOVIES' and contains a table with columns: Movie Name, Date, Time, Room, and Click to buy a ticket. Three movie entries are listed: 'Titanic' (2022-01-10, 17:00:00, Room 1), 'Spectre' (2022-01-10, 15:00:00, Room 2), and another 'Spectre' entry (2021-01-17, 20:45:00, None). Each entry has a 'Buy ticket' button.

Movie Name	Date	Time	Room	Click to buy a ticket
 Titanic	2022-01-10	17:00:00	1	Buy ticket
 Spectre	2022-01-10	15:00:00	2	Buy ticket
 Spectre	2021-01-17	20:45:00	None	Buy ticket

After selecting the desired movie, the site will redirect user to a panel where the he/she can see in which room the screening is taking place, what tickets are available for sale and what is their cost (/buy/<id_movie:path>/).

Depending on user ticket choice, redirection will take place to one of the two different subpages:

- For normal ticket (/select_1/<id_movie:path>/<login:path>)
- For reduced ticket (/select_2/<id_movie:path>/<login:path>)



The screenshot shows the 'TICKET TYPE' page. The sidebar is the same as the previous page. The main content area is titled 'TICKET TYPE' and contains a table with columns: Room, Ticket type, Price of ticket, and Choose option. Two ticket options are listed: 'Normal' (25.50 PLN) and 'Reduced' (15.00 PLN), both for Room 1. Each option has a 'Choose' button.

Room	Ticket type	Price of ticket	Choose option
1	Normal	25.50 PLN	Choose
1	Reduced	15.00 PLN	Choose

In the last step, the user will be required to select the row and seat number, as well as the payment method from the drop-down list. Once you have filled it all out, click the "Book now!" button, it will redirect the you to the reservation window where you will see your new purchase and be able to see your order history (/my_reservation). You can also get to your reservation panel by clicking "My reservation" bar located in the navigation panel.

PYTHON/SQL PROJECT
CREATE NEW ACCOUNT

Home
Log in
Buy a ticket
Movies
Profile
Sign out

SELECT PLACE

Home page / Buy a ticket / Select Place

Row: 1

Seat number: 1

Payment method:

Cash
Cash
Card
Blik

Book now!

My reservations

PYTHON/SQL PROJECT
MY RESERVATION

Home
Log in
Buy a ticket
Movies
Profile
My reservation
Sign out

MY RESERVATION

Home page / Profile / My reservation

Ticket ID	Movie name	Type	Price	Room	Row	Seat number	Date	Time
200	Titanic	Normal	25.5	1	2	1	2022-01-30	17:00:00
929	Titanic	Normal	25.5	1	2	5	2022-01-30	17:00:00
35	Spectre	Reduced	12.0	2	2	5	2022-01-30	15:00:00
837	Titanic	Normal	25.5	1	1	5	2022-01-30	17:00:00
263	Titanic	Normal	25.5	1	1	1	2022-01-30	17:00:00

Profile details

From the navigation panel, the user can also click on the "profile details" bar, which will redirect them to the subpage containing basic information about account, along with the possibility of updating it if necessary.

PYTHON/SQL PROJECT
PROFILE DETAILS

Home
Log in
Buy a ticket
Movies
Profile
Sign out

PROFILE DETAILS

Home page / Profile / Profile details

Login	Password	Name	Surname	Mobile	Email	Address	Modify your profile
jan123	user123	Jan	Kowalski	699721370	jan.kowalski@gmail.com	Poniatowska 12/64 Warszawa 03-143	Change

Sign out

User can sign out through Sign Out button which is located on navigation panel. The system will display the following message and clear username cookies:

SIGN OUT

Home page / Sign out

Success! You signed out successfully.

4. Admin perspective:

We have created two admin accounts that have additional permissions and rights granted. Once an admin is successfully logged in, the navigation bar will change automatically to allow admins to access various options, which are not available to regular users.

Sold tickets

In the sold tickets tab, admin can see a summary of all tickets bought by different users along with their total cost (/sold_tickets).

Home

Sold tickets

Users

Modify Tickets

Movies

Cinema rooms

Sign out

SOLD TICKETS

Home page

Sold tickets

Login	Ticket type	Bought Tickets	Sum
arttt1	Reduced	1	12.0 PLN
dzula1	Reduced	1	12.0 PLN
jan123	Normal	4	102.0 PLN
jan123	Reduced	1	12.0 PLN
joshua	Normal	1	25.5 PLN
szymen2	Normal	1	25.5 PLN

Users

After clicking the Users tab (/users), the admin will get information about all registered users and will be given the option to delete them if necessary (admins cannot delete each other). When a new user is registered, the delete button will be dynamically added to the table (/delete/<login:path>).

PYTHON/SQL PROJECT USERS

Home

Sold tickets

Users

Modify Tickets

Movies

Cinema rooms

Sign out

USERS

Home page / Users

Login	Password	Name	Surname	Mobile	Email	Address	Delete customer
jan123	user123	Jan	Kowalski	699721370	jan.kowalski@gmail.com	Poniatowska 12/64 Warszawa 03-143	<div>Delete</div>
dzula1	haslo12	Julia	Kaszew	699721371	juliakaszewi@wp.pl	Mickiewicza 6 Sopot 05-121	<div>Delete</div>
joshua	usa123	Josh	Burger	699721372	joshburger1@gmail.com	Grove Street 1 San Andres 09-401	<div>Delete</div>
arttt1	python1	Artur	Kot	699721373	arturkot12@gmail.com	Obradkowa 13/15 Warszawa 03-140	
szymen2	python2	Szymon	Dzik	699721374	szymondzik@yahoo.com	Przemska 3 Legionowo 01-309	

Rooms

After clicking on the Cinema Rooms tab, the admin can check the capacity of two of our cinema rooms.

Home

Sold tickets

Users

Modify Tickets

Movies

Cinema rooms

Sign out

CINEMA ROOMS

Home page

Cinema rooms

Room ID	Room	Seats	Rows
S1	1	10	2
S2	2	8	2

Modify Tickets

In the Modify Tickets bar (/admin_panel) admin can see information about the tickets bought and if there are any duplicates by chance. If such a situation occurs, admin can manually change the row and seat assignment of a duplicate ticket (/change_ticket/<id_ticket:path>).




MODIFY TICKETS						
Home page / Modify tickets						
ID movie	Room	Row	Seat number	Duplicates ?	Modify tickets	
10	1	1	1	1	Change	
10	1	1	3	1	Change	
10	1	1	5	1	Change	
10	1	2	1	1	Change	
10	1	2	5	1	Change	
11	1	2	5	1	Change	
11	2	2	1	1	Change	
11	2	2	2	1	Change	
11	2	2	5	1	Change	

Modify movies

After clicking on the Movies tab, admin has 3 options :

- delete a movie: buttons on the right (/delete_movie/<movie_name:path>)
- add a new movie: button under the table (/add_movie)
- update additional information about the movie: click on the name of the movie (/change/<film:path>)

After adding new film different than Spectre or Titanic, no picture of the film will appear, but instead there will be an information that the site is currently being worked on.

MOVIES				
Home page / Movies				
	Movie Name	Date	Time	Delete movie position
	Titanic	2022-01-10	17:00:00	Delete
	Spectre	2022-01-10	15:00:00	Delete
	Spectre	2021-01-17	20:45:00	Delete
Click here to add new movie position !				

5. Attachments

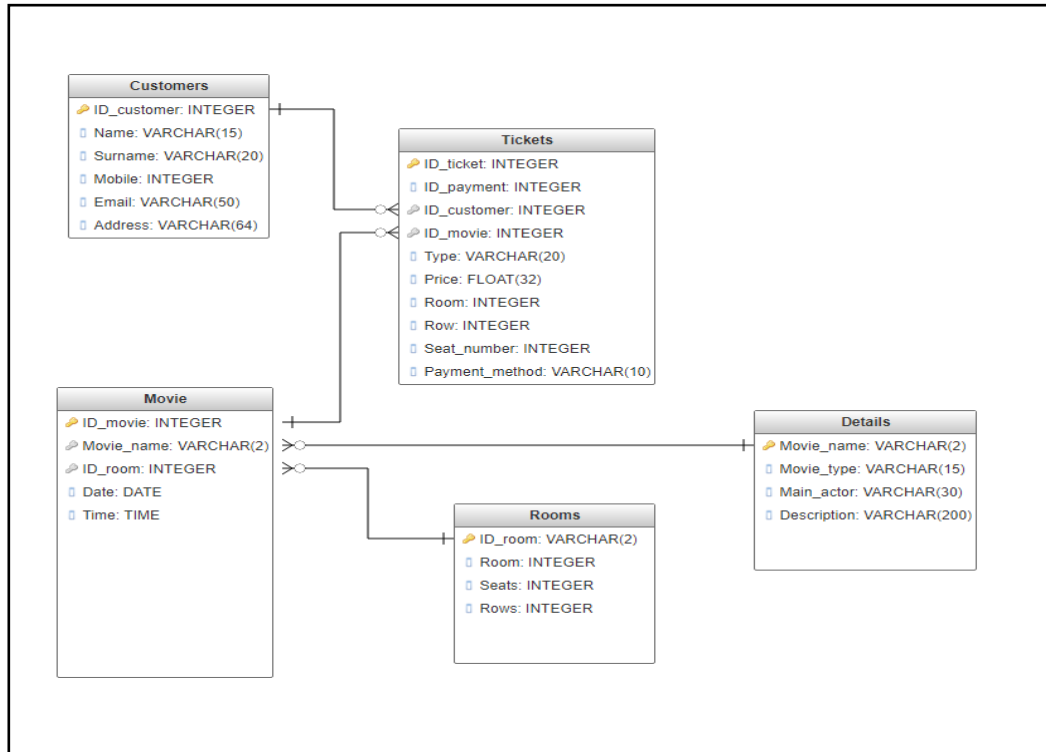
Files list

App.ipynb – file containing our code implemented in bottle library

Cinema_AS_SS.db – file with our database

SQL_script_final.txt – file where we written the queries of our database

Database scheme:



Credentials

Below you can find chosen login credentials.

Regular user:

- login: jan123 password: user123
- login: drzula1 password: haslo12

Admin:

- login: arttt1 password: python1
- login: szymm2 password: python2

Work distribution

Name	Tasks
Szymon	Web desing
	Things connected with user panel like log in/buy ticket/movies/profile/log out
	Creating the SQL queries in server.py
Artur	Presentation
	Creating diagram in RDS GenMyModel
	Creating database in SQLite
	Things connected with admin panel like log in/sold tickets/users/movies/log out
	Report