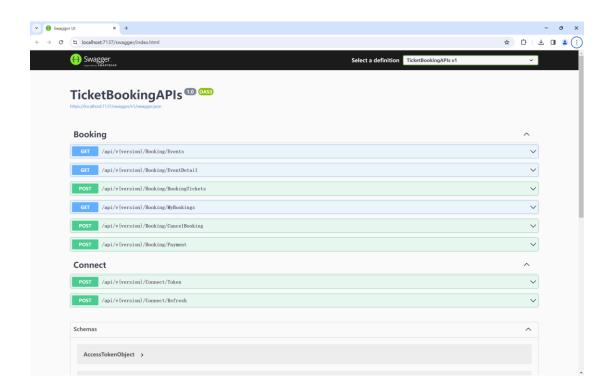
Introduction to Ticket Booking APIs

Github: https://github.com/chen-xiaowei/TicketBookingAPIs/

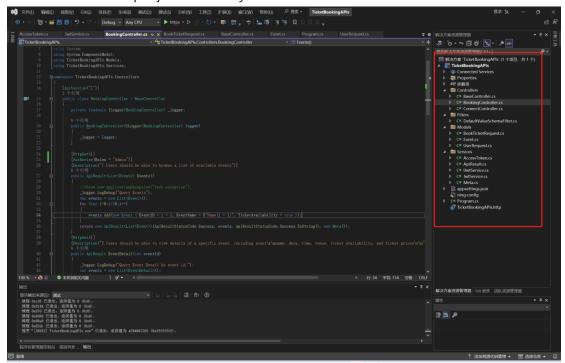
According to the business analysis, there are six requirements in total. These requirements will be implemented using Asp.NetCore API, with each requirement corresponding to one API interface. Requirements 1, 2, and 4 will use HTTP GET methods to retrieve data, while requirements 3, 5, and 6 will use HTTP POST methods to update data. The following is a list of functions that have been implemented in the home assignment:

- 1. Encapsulate ApiResult as a unified return object for all interfaces.
- 2. Customized Authentication and Authorization services by jwtoken authentication and role authorization.
- 3. Support AccessToken and RefreshToken.
- 4. The returned data of GET requests which support paging.
- 5. Logging supported by output to files, and automatically archive and create new log files when the log size exceeds 16MB.
- 6. Customize filters to clear the default values of Swagger request parameters.
- 7. Support multi-version management for APIs.
- 8. Support global exception handling.
- 9. Setting up default values for Token interface calling.

The screenshot of Swagger as below.



The screenshot of project directory structure is as follows.



Interface list

Connect

[HttpPost] https://localhost:7137/api/v1/Connect/Token

```
i8vbG9jYWxob3N00jcxMzciLCJhdWQi0iJodHRwczovL2xvY2FsaG9zdDo3MTM3In0.maNjUTjkvnn4cDuH
djlImlh6E2Lb-PPcbcrAtXB_W_4",
   "TokenType": "Bearer",
   "ExpiresIn": 3599
 },
  "Meta": null,
  "StatusCode": 200,
  "Message": "Success",
  "Errors": null
```

[HttpPost] https://localhost:7137/api/v1/Connect/Refresh

```
Request body
  "accessToken":
eyJhbGciOiJIUzI1NilsInR5cCl6lkpXVCJ9.eyJyb2xlljoiQWRtaW4iLCJuYmYiOjE3MTI4MDAzMzl"
slmV4cCl6MTcxMjgwMzkzMiwiaWF0ljoxNzEyODAwMzMyLCJpc3MiOiJodHRwczovL2xvY2Fs
aG9zdDo3MTM3liwiYXVkljoiaHR0cHM6Ly9sb2NhbGhvc3Q6NzEzNyJ9.GLiZyr6-
p9YwX1gGDwRs0XKRAZu8jrBK6hiqjhmOOH0",
  "refreshToken":
"eyJhbGciOiJIUzI1NilsInR5cCl6IkpXVCJ9.eyJyb2xlljoiUmVmcmVzaClsIm5iZil6MTcxMjgwMD
MzMiwiZXhwljoxNzEzNDA1MTMyLCJpYXQiQjE3MTI4MDAzMzlsImIzcyl6Imh0dHBzQi8vbG9j
YWxob3N0OjcxMzciLCJhdWQiOiJodHRwczovL2xvY2FsaG9zdDo3MTM3In0.maNjUTjkvnn4c
DuHdjllmlh6E2Lb-PPcbcrAtXB_W_4"
}
Response body
  "Data": {
   "AccessToken": "eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyb2xlIjoiQWRtaW4iLCJuYmY
iOjE3MTI4MDAzMzIsImV4cCI6MTcxMjgwMzkzMiwiaWF0IjoxNzEyODAwMzMyLCJpc3MiOiJodHRwczovL2
xvY2FsaG9zdDo3MTM3IiwiYXVkIjoiaHR0cHM6Ly9sb2NhbGhvc3Q6NzEzNyJ9.GLiZyr6-p9YwX1gGDwRs
0XKRAZu8jrBK6hiqjhmOOH0",
   "RefreshToken": "eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyb2x1IjoiUmVmcmVzaCIsIm
5iZiI6MTcxMjgwMDMzMiwiZXhwIjoxNzEzNDA1MTMyLCJpYXQiOjE3MTI4MDAzMzIsImlzcyI6Imh0dHBzO
i8vbG9jYWxob3N00jcxMzciLCJhdWQi0iJodHRwczovL2xvY2FsaG9zdDo3MTM3In0.maNjUTjkvnn4cDuH
djlImlh6E2Lb-PPcbcrAtXB_W_4",
   "TokenType": "Bearer",
   "ExpiresIn": 3599
  },
  "Meta": null,
  "StatusCode": 200,
  "Message": "Success",
  "Errors": null
```

Booking

[HttpGet] https://localhost:7137/api/v1/Booking/Events

Request Body

Response body

```
"Data": [
   "EventID": 1,
   "EventName": "Name1",
   "TicketAvailability": true
 },
   "EventID": 2,
   "EventName": "Name2",
   "TicketAvailability": true
 },
   "EventID": 3,
   "EventName": "Name3",
   "TicketAvailability": true
 },
   "EventID": 4,
   "EventName": "Name4",
   "TicketAvailability": true
 },
   "EventID": 5,
   "EventName": "Name5",
   "TicketAvailability": true
 },
   "EventID": 6,
   "EventName": "Name6",
   "TicketAvailability": true
```

```
},
   "EventID": 7,
   "EventName": "Name7",
   "TicketAvailability": true
 },
   "EventID": 8,
   "EventName": "Name8",
   "TicketAvailability": true
 },
   "EventID": 9,
   "EventName": "Name9",
   "TicketAvailability": true
  },
   "EventID": 10,
   "EventName": "Name10",
   "TicketAvailability": true
 }
],
"Meta": {
 "CurrentPage": 1,
 "TotalPage": 1,
 "ItemsPerPage": 10,
 "TotalItems": 1
},
"StatusCode": 200,
"Message": "Success",
"Errors": null
```

[HttpGet] https://localhost:7137/api/v1/Booking/EventDetail?eventId=1

Request body

Response body

```
"Venue": "No.8, Bao'an Avenue, Nansha District, Guangzhou.",
  "TicketPrices": 20,
  "EventID": 1,
  "EventName": "Name1",
  "TicketAvailability": true
},
  "Date": "2024-04-12",
  "Time": "10:03:05",
  "Venue": "No.9, Bao'an Avenue, Nansha District, Guangzhou.",
  "TicketPrices": 21,
  "EventID": 1,
  "EventName": "Name2",
  "TicketAvailability": true
},
  "Date": "2024-04-13",
 "Time": "10:03:05",
  "Venue": "No.10, Bao'an Avenue, Nansha District, Guangzhou.",
  "TicketPrices": 22,
  "EventID": 1,
  "EventName": "Name3",
 "TicketAvailability": true
},
  "Date": "2024-04-14",
  "Time": "10:03:05",
  "Venue": "No.11, Bao'an Avenue, Nansha District, Guangzhou.",
  "TicketPrices": 23,
  "EventID": 1,
  "EventName": "Name4",
 "TicketAvailability": true
},
 "Date": "2024-04-15",
  "Time": "10:03:05",
  "Venue": "No.12, Bao'an Avenue, Nansha District, Guangzhou.",
  "TicketPrices": 24,
 "EventID": 1,
 "EventName": "Name5",
 "TicketAvailability": true
},
  "Date": "2024-04-16",
```

```
"Time": "10:03:05",
 "Venue": "No.13, Bao'an Avenue, Nansha District, Guangzhou.",
 "TicketPrices": 25,
 "EventID": 1,
 "EventName": "Name6",
 "TicketAvailability": true
},
{
 "Date": "2024-04-17",
 "Time": "10:03:05",
 "Venue": "No.14, Bao'an Avenue, Nansha District, Guangzhou.",
 "TicketPrices": 26,
 "EventID": 1,
 "EventName": "Name7",
 "TicketAvailability": true
},
 "Date": "2024-04-18",
 "Time": "10:03:05",
 "Venue": "No.15, Bao'an Avenue, Nansha District, Guangzhou.",
 "TicketPrices": 27,
 "EventID": 1,
 "EventName": "Name8",
 "TicketAvailability": true
},
 "Date": "2024-04-19",
 "Time": "10:03:05",
 "Venue": "No.16, Bao'an Avenue, Nansha District, Guangzhou.",
 "TicketPrices": 28,
 "EventID": 1,
 "EventName": "Name9",
 "TicketAvailability": true
},
 "Date": "2024-04-20",
 "Time": "10:03:05",
 "Venue": "No.17, Bao'an Avenue, Nansha District, Guangzhou.",
 "TicketPrices": 29,
 "EventID": 1,
 "EventName": "Name10",
 "TicketAvailability": true
```

```
"Meta": {
    "CurrentPage": 1,
    "TotalPage": 1,
    "ItemsPerPage": 10,
    "TotalItems": 1
},
    "StatusCode": 200,
    "Message": "Success",
    "Errors": null
```

[HttpPost] https://localhost:7137/api/v1/Booking/BookingTickets

```
Request body
{
    "userID": 1,
    "eventID": 1,
    "ticketType": 1,
    "quantity": 10
}
Response body
{
    "Data": {
      "BookID": 1
    },
    "Meta": null,
    "StatusCode": 200,
    "Message": "Success",
    "Errors": null
}
```

[HttpGet] https://localhost:7137/api/v1/Booking/MyBookings?userID=1

```
Request body
Response body
```

```
{
    "Data": [
    {
        "BookID": 0,
        "EventName": "Name1",
```

```
"UserID": 0,
  "EventID": 1,
  "TicketType": 2,
  "Quantity": 1
},
  "BookID": 0,
 "EventName": "Name2",
  "UserID": 0,
  "EventID": 2,
  "TicketType": 2,
  "Quantity": 2
},
  "BookID": 0,
  "EventName": "Name3",
  "UserID": 0,
  "EventID": 3,
  "TicketType": 2,
  "Quantity": 3
  ],
 "Meta": {
   "CurrentPage": 1,
   "TotalPage": 1,
   "ItemsPerPage": 10,
   "TotalItems": 1
  },
  "StatusCode": 200,
  "Message": "Success",
  "Errors": null
```

[HttpPost] https://localhost:7137/api/v1/Booking/CancelBooking

```
Request body
{
    "userID": 1,
    "bookID": 1
}
Response body
{
```

```
"Meta": null,
"StatusCode": 200,
"Message": "Success",
"Errors": null
}
```

[HttpPost] https://localhost:7137/api/v1/Booking/Payment

```
Request body
{
    "userID":10,
    "bookID": 10,
    "totalPrices": 10000
}
Response body
{
    "Meta": null,
    "StatusCode": 200,
    "Message": "Success",
    "Errors": null
}
```