

EBU6304_G058_flight

EBU6304 – Software Engineering Group Project

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Project Introduction

Our team will develop a **smart flight check-in kiosk software** for British Airways in a few weeks using **agile methods**. We will conduct a systematic requirements survey, analysis and design, followed by writing implementation and testing of the software. We will deliver **four major iterations** in a planned manner.



Features

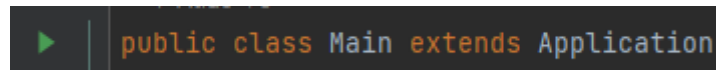
- Passengers look for their own booking information.
- Passengers choose seats.
- Passengers choose meals.
- Passengers can check in.
- Passengers can print tags.
- Administrator can login.
- Administrator can view all the passengers' information.(coming soon)

Quick Start : How to run our project

§§ jdk 17 and Maven 3.8.1 are required

1. Use IDE

Our project was developed using **JetBrains IntelliJ IDEA** compiler. You can simply open this project folder in IDEA, wait for **Maven** to automatically complete the project build, and click the green triangle next to the application startup class **Main.java** to run it.



```
▶ public class Main extends Application
```

2. Use the command line

Go to the project folder.

Execute the command **mvn clean javafx:run**

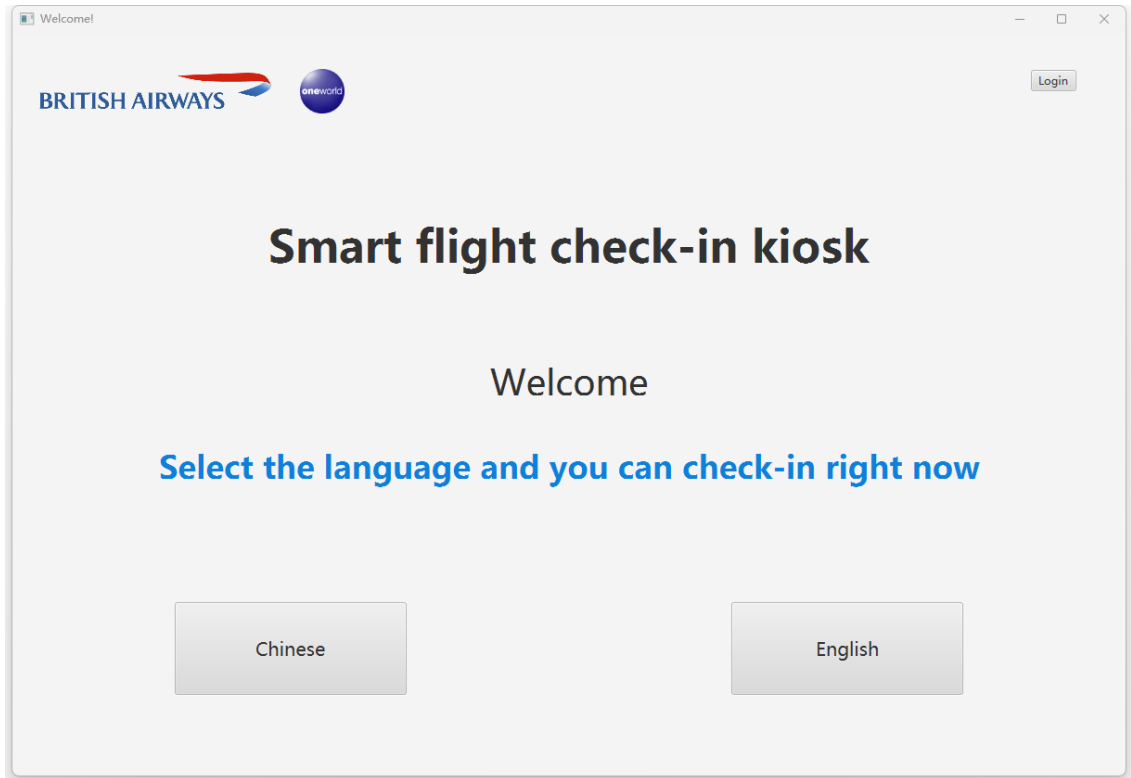
For example:

```
PS C:\Users\LianJunhong\Desktop> cd E:\Java\EBU6304_G058_flight
PS E:\Java\EBU6304_G058_flight> mvn clean javafx:run
```

Running result:

```
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.app:flight >-----
---
[INFO] Building fight 2.0
[INFO] -----[ jar ]-----
---
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ flight ---
[INFO] Deleting E:\Java\EBU6304_G058_flight\target
[INFO]
[INFO] >>> javafx-maven-plugin:0.0.8:run (default-cli) > process-classes @
flight >>>
[INFO]
[INFO] --- lombok-maven-plugin:1.18.20.0:delombok (default) @ flight ---
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ flight
---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 43 resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ flight --
-
```

```
[INFO] Changes detected - recompiling the module!  
[INFO] Compiling 40 source files to  
E:\Java\EBU6304_G058_flight\target\classes  
[INFO]  
[INFO] <<< javafx-maven-plugin:0.0.8:run (default-cli) < process-classes @  
flight <<<  
[INFO]  
[INFO]  
[INFO] --- javafx-maven-plugin:0.0.8:run (default-cli) @ flight ---
```



3. Use Jar or executable file

click **EBU6304_G058_flight.jar** to run the application.

Requirements

- maven -- 3.8.1
- jdk -- 17

Documentation

Coming soon...

Iteration logs

4.5 RELEASE (May 16, 2022) The Latest version

- Big gengxing, deng zhe huang hong lai xie.

4.5 Beta (May 13, 2022)

- Updated the seat price and get the price in Payment page.
- Updated the pay QR code.
- Added the boarding pass code and tag code in the last page.
- Fixed the bugs in implements.
- Improved the pages design.
- Fixed the bugs of codes and selecting seat.
- Updated validators.
- Added test units.

4.0 Beta (May 8, 2022)

- Several bugs fixed and new features added in this release.
- Separated printing function and created scanning function.
- Updated the help function and fastjson snapshot.
- Fixed bugs of Printer and Scanner.
- Update fastjson 2.0.2 fulling test of new dependency.
- Added the navigation map and showed the boarding gate in page.
- Improved the ScanInstructionController and show the video how to scan ID card to users.
- Improved Scanner to ues Runnable and Thread pool.
- Refactor SeatMapImpl with GetSeatMapImpl and SetSeatMapImpl.

3.5 RELEASE (May 1, 2022)

- Several bugs fixed and new features added in this release.
- Fixed the bug of showing the retrieve information and beautify the page.
- Improved the interface of selecting food type.
- The interface logic of searching user information according to function selection is realized.
- The function of finding user interface is reconstructed.
- Fixed RetrieveController select passenger flight bugs.
- Improved the implementation of the interfaces.
- Adjust the effect of printing boarding pass progress bar and added printer sound.
- Optimized thread synchronization.
- Fix percentage showing during processing print the tags.
- Updated the Json and CSV files.
- Refactor to update fastjson1 to fastjson2 and fixed bugs.
- Added help page.
- Added several test units.

3.0 Beta (April 24, 2022)

- Several bugs fixed and new features added in this release.
- Fixed scene switching. Now the scene can be switched in the same window.
- Fixed the bug that the application will crash when the user select nothing but submit.
- The showSeatMap function has been refactored to reduce coupling.
- The interface logic of searching user information according to function selection is realized.

- The function of finding user interface is reconstructed.
- Updated CSV file to generate corresponding flight seating map based on flight ID.
- Added the ability to automatically generate passenger boarding cards.
- Improved front and back seating map compatibility.
- Many unit tests have been added to test our main functions.

2.1 RELEASE (April 20, 2022)

- Several bugs fixed in this release.
- New features added in this release.
- New view of seat selection.

2.0 Beta (April 17, 2022)

- Further improve the basic functions of our page and realize the closed loop of basic operation logic.
- Integrate the administrator login function page.
- Implements the display of flight information (in the form of a list) and passenger selection of seats and meals.
- Several bugs fixed in this release.

1.5 (April 12, 2022)

- Fix bugs and complete the iteration of the 1.0 version.
- Finish the pages and complete the functions of booking and retrieve information.
- Change the design of flight and booking CSV data regardless of whether a passenger has more than one booking and flight.
- Implement the GetFlight and GetReservation interface and GetFlightImpl and GetReservationImpl class.

1.0 (March 28, 2022)

- Complete the first page about selecting a language.
- Make entity classes about version 1.0.
- Complete the programming of common tools related to CSV and JSON.
- Complete the design of the interface between boundary class and control class.
- Complete the login interface design and the implementation of the login function.

0.5 (March 21, 2022)

- Finally determine 28 user stories and acceptance criteria.
- Complete product prototype design using Axure.
- Complete the priority and Fibonacci story points (first version) .

0.1 (March 15, 2022)

- Set up the QMPlus Hub group and discuss the project handout.
 - Discuss and write user stories focus on more specific and quantifiable details.
 - Build project framework.
-

Credits

We would first like to thank **Queen Mary University** and **Beijing University of Posts and Telecommunications** for the joint training program that provided much needed guidance and assistance for this course project.

Secondly, please allow us to express our sincere gratitude to **JetBrains** for providing free individual licenses for students and teachers to learn programming with its best-in-class development tools.