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BRICS SKILLS COMPETITION

(BRICS FUTURE SKILLS & TECHNOLOGY CHALLENGE)

Business Software Solutions

BRICS-FS-38

Test Project

(International Final)

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1 Entry Format

This is an Individual Skills Competition in which all teams complete the competition module on site within the time limit based on the given project module.

2 Project Background

As the 2024 Paris Olympics approaches, organizers are faced with a huge challenge to ensure the smooth running of the event. To meet this challenge, this project aims to develop a comprehensive Paris Olympics management system that will cover a number of modules including athlete management, volunteer management, ticketing and spectator services, safety and health protocols, accommodation and transportation scheduling, and media and PR.

In the Athlete Management module, the system will record athletes' basic information, performance history and health status, as well as confirm athletes' eligibility to participate, including eligibility criteria and drug testing information. In addition, the system will track and analyze athletes' training and competition performance to help them achieve the best results in the competition.

The Volunteer Management Module will process applications for volunteers, conduct eligibility checks and assignments, provide online training materials and arrange offline training sessions, and assign work according to event needs and volunteer skills.

The Ticketing and Spectator Service Module will sell tournament tickets online, provide different categories of ticketing options, and provide maps, transportation guides and safety instructions for the tournament venues. In addition, the system will answer questions and handle problems that may arise during the ticketing and spectator process.

The Safety and Health Protocol module will provide health monitoring and medical support for athletes and staff, develop safety plans and evacuation plans to deal with emergencies, and set up a crisis response team and communication mechanism to quickly respond to possible crisis events.

The Accommodation and Transportation Scheduling Module will provide accommodation arrangements for athletes, staff and media representatives, and transportation services during the event, including transfers between venues. The system will also help spectators plan their accommodation and transportation during the event.

The Media & PR module will distribute event news, provide progress and results updates, and post event information on social media to interact with spectators. In addition, the system will manage partnerships with sponsors for branding campaigns.

By developing such a comprehensive management system for the Paris Games, organizers will be able to manage all aspects of the event more efficiently, ensuring that athletes, volunteers, spectators, and media representatives all have the best possible experience.

Specific requirements:

1. Realize athlete management, ticket management and other functions of Olympic Games management system;
2. Develop management system with stability, speed, business simplicity, as the standard.

3 Project Modules & Time Requirements

The competition lasts 6 hours and assesses three modules: "System Requirements Analysis", "Application Software Development" and "System Deployment Testing", as BRICS-FS-38_Business Software Solutions_Test Project

shown in the table below:

Module Number	Module Name	Competition Time	Mark
1	System Requirements Analysis	6 hours	25 points
2	Application Software Development		55 points
3	System Deployment Testing		20 points
合计		6 hours	100 points

4 Submission of Competition Results

Participants log in to the system according to their assigned account and upload and submit the results of Module 1, Module 2 and Module 3 to the platform before the end of the competition.

5 Competition Notes

The content of submitted and deployed documents, prototypes, code and other resources must not be filled with information related to the competitor, such as race number, name and institution. If the above marks appear, the grade of this module will be treated as zero.

6 Contents of the Competition

6.1 Module 1: System Requirements Analysis

6.1.1 Module Examination Points

Module mark: 25 points

This module focuses on testing the ability of participants to skillfully collect, analyze and summarize customer requirements, clearly sort out business processes, prepare standardized requirement specifications, skillfully use UI design software for product UI/UE design, master the correct UI color scheme, and design software requirement analysis works that conform to business logic and ergonomics.

6.1.2 Task Requirements

1. According to the given task requirements, utilize the "Requirements Specification (Template).docx" and related tools (e.g., Visio, etc.) to write a module outline, draw corresponding business process diagrams/activity diagrams, use case diagrams, class diagrams, timing diagrams, E-R diagrams, and complete the "Requirements Specification (Template).docx" document. "Requirements specification.docx" document preparation.

2. Use the prototyping tool Axure RP to create the project "product prototype.rp", according to the given task requirements, use the prototyping tool Axure and the image processing software Adobe Photoshop to design the software prototype, so that it conforms to the UI design specifications, and at the same time realize the function of interaction between the prototype and the interface. The function of interaction between interfaces.

(1) Judges will run the software prototype in the Publish--Preview mode of the Axure RP tool to judge the work.

(2) When the software prototype is drawn, the page naming is standardized, the page width is 1024px, and the height is unlimited. The page layout should be reasonable, beautiful and complete; please reuse the style for the same function and avoid one function and multiple styles.

(3) The prototype should have interaction design content, and interaction labeling, good user experience, ergonomic operation logic. Interaction description, fill in the "interaction

action" plus "link pointing" description of the components; labeling can interact with the state, fill in all the "interaction state" description of the components, characters, etc. Restriction tips, fill in the description of whether or not there is a character restriction on the widget or how to restrict it. Good user experience.

3. Before the end of the competition, the contestants will add the two files "Requirements Specification.docx" and "Product Prototype.rp" to the "System Requirements Analysis.zip" zip file. "and submit the zip file.

6.1.3 Task of the Competition

Participants will complete the "Requirements Specification.docx" and "Product Prototype.rp" design tasks according to the task requirements of Module 1 based on the task requirements description provided by the client.

Task 1: Athlete Management - Personal Information Management

[Basic Requirements]

1. Enter the main interface of Olympic Games management system, click the personal information management label under the athlete management on the left side to enter the athlete's personal information management page. Realize the personal information of athletes to be displayed in a paged data list, and the content of the paged data list should include: number, athlete's name, gender, age, height, weight, nationality, performance history, health status, and [Add] [Modify] [Delete] buttons.

Data list below the paging module, divided into six parts, respectively, "a total of N", "10 / page", "<" link, link to each page (the current page number is highlighted), ">" link, "Go to page N" input box. Click "<" hyperlink to enter the previous page of the warehouse information data list; if the current page number is 1, the "<" hyperlink is not available; click

">" hyperlink to enter the next page of the warehouse information data list; if the current page number is 1, then "<" hyperlink is not available; click ">" hyperlink to enter the next page. If the current page number is 1, the "<" hyperlink is not available; click the ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is the largest page number, the ">" hyperlink is not available; click the link for each page to enter the warehouse information data list of the specified page number; "Go to page N" enter the page number and then enter to enter the warehouse information data list of the specified page number. information data list, if the input page number is greater than the maximum page number, then enter the last page of the warehouse information data list, if the input page number is less than 1, then enter the first page of the warehouse information data list.

2. The left side of the data list shows [Add] button, click [Add] button, the dialog box of "Add Athlete's Personal Information" pops up, the content includes: athlete's name, gender, age, height, weight, nationality, performance history, health status, click [Save] button to create new athlete's personal information data and prompts the words of "New Success", click [Save] button to create new athlete's personal information data and prompts the words of "New Success". "Click [Cancel] button to close the dialog box.

3. In the data item, click [Modify] button to pop up the "Modify Athlete's Personal Information" dialog box, the dialog box can be modified including: athlete's name, gender, age, height, weight, nationality, performance history, health status, after modification, click [OK] button to save the modification content and refresh the list of data, if you click [Cancel] button to close the dialog box.

4. In the data item, after clicking [Delete] button, "Warning" dialog box will pop up, which reads "Is it confirmed to delete the data item with the number of athlete's personal information as 'N'?". Click [OK] button to delete the content and refresh the data list, if you

click [Cancel] button to close the dialog box.

5. Input the athlete's name (fuzzy query), nationality drop-down selection, health status drop-down selection (including: healthy, good, poor) in the search box above the data list, then click the [Search] button to realize the function of querying according to the search conditions and refresh the paged list data, if you click the [Reset] button to clear the input query conditions and refresh the paged list data.

6. Select a data item, the [Modify] button on the left side of the data list becomes "available", click the [Modify] button, the "Modify Athlete's Personal Information" dialog box will pop up, and the contents that can be modified in the dialog box include: athlete's name, gender, age, height, weight, nationality, performance history, and health status. When the modification is completed, click [OK] button to save the modification and refresh the data list, if you click [Cancel] button to close the dialog box.

7. When one or more data items are selected, the [Delete] button on the left side of the data list becomes "available", and after clicking the [Delete] button, the "Warning" dialog box pops up, which reads "Is it confirmed to delete the data items of the athlete's personal information numbered 'N, M', or is it confirmed to delete the data items of the athlete's personal information numbered 'N, M'? The dialog box reads, "Do you confirm deleting the data item with the athlete's personal information number 'N, M'?" Click the [OK] button to delete the content and refresh the data list, if you click the [Cancel] button to close the dialog box.

8. Click the check box in the title line of the data list, the check box status of all data items in the data list is consistent with it; on the contrary, if all the check boxes in front of the data items are clicked to be selected, then the check box status of the title line of the data list is switched with it.

Task 2: Athlete Management - Eligibility Check

[Basic Requirements]

1. Enter the main interface of Olympic Games Management System, click the Qualification Audit tab under Athletes Management on the left side, and enter the Qualification Audit Management page of athletes. Realize the paged data list display of athlete qualification audit, and the paged data list display should include: number, athlete's name, gender, nationality, qualification standard, drug test information, audit status, [passed] [rejected] buttons.

Data list below the paging module, divided into six parts, respectively, "a total of N", "10 / page", "<" link, link to each page (the current page number is highlighted), ">" link, "Go to page N" input box. Click "<" hyperlink to enter the previous page of the warehouse information data list; if the current page number is 1, the "<" hyperlink is not available; click ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is 1, then "<" hyperlink is not available; click ">" hyperlink to enter the next page. If the current page number is 1, the "<" hyperlink is not available; click the ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is the largest page number, the ">" hyperlink is not available; click the link for each page to enter the warehouse information data list of the specified page number; "Go to page N" enter the page number and then enter to enter the warehouse information data list of the specified page number. information data list, if the input page number is greater than the maximum page number, then enter the last page of the warehouse information data list, if the input page number is less than 1, then enter the first page of the warehouse information data list.

2. Input the athlete's name in the search box above the data list (fuzzy query), the drop-down selection of the audit status (including: pending audit, has passed, has been

rejected), and then click the [Search] button to realize the function of querying according to the search conditions and refreshing the paged list of data, and if you click the [Reset] button, you can empty the query conditions input and refresh the paged list of data.

3. In the data item, after clicking the [Pass] button, the "Warning" dialog box pops up, which reads "Is it confirmed to pass the data item of the athlete's eligibility information numbered as 'N'?". Click [OK] button to update the content and refresh the data list, if you click [Cancel] button to close the dialog box.

4. In the data item, after clicking the [Reject] button, a "Warning" dialog box will pop up, which reads, "Is it confirmed that the data item with the athlete's eligibility number 'N' is rejected?". Click [OK] button to update the content and refresh the data list, if you click [Cancel] button to close the dialog box.

Task 3: Athlete Management - Results Entry

[Basic Requirements]

1. Enter the main interface of Olympic Games Management System, click on the performance entry label under the athlete management on the left side, and enter the management page of athlete performance entry. Realize that the information of athletes' performance entry is displayed in a paged data list, and the content of the paged data list should include: number, athlete's name, gender, nationality, performance in training, performance in competition, and [Performance Entry] button.

There is a paging module below the data list, which is divided into six parts, namely, "Total N", "10/page", "<" link, link to each page (the current page number is highlighted), ">" link, "Go to page N" input box. Click "<" hyperlink to enter the previous page of the warehouse information data list; if the current page number is 1, the "<" hyperlink is not

available; click ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is 1, then "<" hyperlink is not available; click ">" hyperlink to enter the next page. If the current page number is 1, the "<" hyperlink is not available; click the ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is the largest page number, the ">" hyperlink is not available; click the link for each page to enter the warehouse information data list of the specified page number; "Go to page N" enter the page number and then enter to enter the warehouse information data list of the specified page number. information data list, if the input page number is greater than the maximum page number, then enter the last page of the warehouse information data list, if the input page number is less than 1, then enter the first page of the warehouse information data list.

2. In the data item, after clicking the [Results Entry] button, the "Athlete Results Information Entry" dialog box will pop up, and the contents that can be modified in the dialog box include: training performance, competition performance, and after the modification is completed, click the [OK] button to save the modification contents and refresh the data list, and if you click the [Cancel] button, you can close the dialog box.

Task 4: Volunteer Management - Application Approval

[Basic Requirements]

1. Enter the main interface of Olympic Games Management System, click the Application Audit tab under Volunteer Management on the left to enter the Volunteer Application Audit Management page. Realize the paged data list display of volunteer application review, and the paged data list display should include: number, volunteer name, gender, contact phone number, qualification review, allocation information, application status,

[passed] [rejected] buttons.

There is a paging module below the data list, which is divided into six parts, namely, "Total N articles", "10 articles/page", "<" link, link to each page (current page number highlighted), ">" link, "Go to page N" input box. Click "<" hyperlink to enter the previous page of the warehouse information data list; if the current page number is 1, the "<" hyperlink is not available; click ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is 1, then "<" hyperlink is not available; click ">" hyperlink to enter the next page. If the current page number is 1, the "<" hyperlink is not available; click the ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is the largest page number, the ">" hyperlink is not available; click the link for each page to enter the warehouse information data list of the specified page number; "Go to page N" enter the page number and then enter to enter the warehouse information data list of the specified page number. information data list, if the input page number is greater than the maximum page number, then enter the last page of the warehouse information data list, if the input page number is less than 1, then enter the first page of the warehouse information data list.

2. Input volunteer's name (fuzzy query), gender drop-down selection, application status drop-down selection (including: pending review, passed, rejected) in the search box above the data list, then click [Search] button to realize the function of querying according to the search conditions and refresh the data of the paged list, and if you click [Reset] button, you can empty the inputted query conditions and refresh the data of the paged list.

3. Among the data items, clicking the [Pass] button brings up the "Warning" dialog box, which reads "Is it confirmed to pass the data item with the volunteer application information number 'N'?". Click the [OK] button to update the content and refresh the data list, and click

the [Cancel] button to close the dialog box.

4. In the data item, after clicking the [Reject] button, the "Warning" dialog box pops up, which reads, "Is it confirmed to reject the data item with the volunteer application information number 'N'?". Click the [OK] button to update the content and refresh the data list, and click the [Cancel] button to close the dialog box.

Task 5: Volunteer Management - Training Management

[Basic Requirements]

1. Enter the main interface of Olympic Games Management System, click the Training Management tab under Volunteer Management on the left to enter the volunteer training management page. Realize the paged data list display of volunteer training information, the paged data list display should include: number, online training materials, offline training course schedule, [Add] [Modify] [Delete] button.

Pagination module below the data list, divided into six parts, respectively, "total N", "10 / page", "<" link, link to each page (the current page number is highlighted), ">" link, "Go to page N" input box. Click "<" hyperlink to enter the previous page of the warehouse information data list; if the current page number is 1, the "<" hyperlink is not available; click ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is 1, then "<" hyperlink is not available; click ">" hyperlink to enter the next page. If the current page number is 1, the "<" hyperlink is not available; click the ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is the largest page number, the ">" hyperlink is not available; click the link for each page to enter the warehouse information data list of the specified page number; "Go to page N" enter the page number and then enter to enter the warehouse information data list of the specified page

number. information data list, if the input page number is greater than the maximum page number, then enter the last page of the warehouse information data list, if the input page number is less than 1, then enter the first page of the warehouse information data list.

2. The left side of the data list displays [Add] button, click [Add] button, the dialog box "Add Volunteer Training Information" pops up, fill in the content, including: online training materials, offline training course schedule, click [Save] button to create a new volunteer training information data and prompt the word "New Successful", click [Cancel] button to close the dialog box. Cancel] button to close the dialog box.

3. In the data item, click the [Modify] button to pop up the "Modify Volunteer Training Information" dialog box, the dialog box can be modified including: online training materials, offline training course schedule, after the modification is completed, click the [OK] button to save the modification and refresh the data list, if you click the [Cancel] button to close the dialog box.

4. In the data item, after clicking [Delete] button, a "Warning" dialog box will pop up, which reads, "Is it confirmed to delete the data item with the number of volunteer training information as 'N'?" Click the [OK] button to delete the content and refresh the data list, if you click the [Cancel] button to close the dialog box.

5. Select a data item, the [Modify] button on the left side of the data list becomes "available", click the [Modify] button, the "Modify Volunteer Training Information" dialog box will pop up, the contents can be modified in the dialog box, including: online training materials, offline training course schedule, click the [OK] button to save the modified contents and refresh the data list, and click the [Cancel] button to close the dialog box. Click [OK] button to save the modification and refresh the data list, if you click [Cancel] button to close the dialog box.

6. When one or more data items are selected, the [Delete] button on the left side of the data list becomes "available", and after clicking the [Delete] button, a "Warning" dialog box will pop up, which reads, "Are you sure you want to delete the data items with the volunteer training information number 'N, M'? The dialog box reads, "Are you sure you want to delete the data item with the volunteer training information number 'N, M'?" Click the [OK] button to delete the content and refresh the data list, and click the [Cancel] button to close the dialog box.

7. Click the check box in the title line of the data list, the check box status of all data items in the data list are consistent with it; on the contrary, if all the check boxes in front of the data items are clicked to be selected, then the check box status of the title line of the data list is also switched with it.

Task 6: Volunteer Management - Activity Assignment

[Basic Requirements]

1. Enter the main interface of the Olympic Games management system, click the Activity Assignment tab under Volunteer Management on the left side, and enter the Volunteer Activity Assignment page. Realize the paged data list display of volunteer activity allocation information, and the paged data list display should include: number, volunteer name, gender, contact phone number, event name, details of work allocation, [Add] [Modify] [Delete] button.

There is a paging module below the data list, which is divided into six parts, namely, "Total N articles", "10 articles/page", "<" link, link to each page (current page number highlighted), ">" link, "Go to page N" input box. Click "<" hyperlink to enter the previous page of the warehouse information data list; if the current page number is 1, the "<" hyperlink

is not available; click ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is 1, then "<" hyperlink is not available; click ">" hyperlink to enter the next page. If the current page number is 1, the "<" hyperlink is not available; click the ">" hyperlink to enter the next page of the warehouse information data list; if the current page number is the largest page number, the ">" hyperlink is not available; click the link for each page to enter the warehouse information data list of the specified page number; "Go to page N" enter the page number and then enter to enter the warehouse information data list of the specified page number. information data list, if the input page number is greater than the maximum page number, then enter the last page of the warehouse information data list, if the input page number is less than 1, then enter the first page of the warehouse information data list.

2. The left side of the data list displays the [Add] button, click the [Add] button, the "Add Volunteer Activity Assignment" dialog box pops up, fill in the content including: Volunteer ID drop-down, event name, work assignment details, click the [Save] button to create a new volunteer activity assignment information data and prompts the word "New Successfully", click the [Cancel] button, and click the [Save] button. Click [Cancel] button to close the dialog box.

3. In the data item, click [Modify] button to pop up the "Modify Volunteer Activity Assignment Information" dialog box, the contents of the dialog box can be modified, including: Volunteer ID drop-down, event name, and work assignment details, after the modification is completed, click [OK] button to save the modification and refresh the data list, if you click [Cancel] button to close the dialog box.

4. In the data item, click [Delete] button to pop up a "Warning" dialog box, which reads, "Is it confirmed to delete the data item with the number of 'N' in the Volunteer Activity

Assignment Information?" Click the [OK] button to delete the content and refresh the data list, and click the [Cancel] button to close the dialog box.

5. Input volunteer name (fuzzy query), volunteer gender drop-down selection, volunteer nationality drop-down selection, event name (accurate query) in the search box above the data list, then click [Search] button to realize the function of querying according to the search conditions and refresh the data of the paged list, if you click [Reset] button to clear the input query conditions and refresh the data of the paged list.

6. When a data item is selected, the [Modify] button on the left side of the data list becomes "available", click the [Modify] button to pop up the "Modify Volunteer Activity Assignment Information" dialog box, which can be modified to include: Volunteer ID drop-down, event name, and details of the work assignment, and click the [OK] button to save the modifications and refresh the pagination list data. OK] button to save the changes and refresh the data list, and click [Cancel] button to close the dialog box.

7. When one or more data items are selected, the [Delete] button on the left side of the data list becomes "available", and after clicking the [Delete] button, a "Warning" dialog box will pop up, which reads "Is it confirmed to delete the volunteer assignment information numbered 'N, M'? Is it confirmed to delete the data item with the number of volunteer work assignment information as 'N, M'?" Click the [OK] button to delete the content and refresh the data list, and click the [Cancel] button to close the dialog box.

8. Click the check box in the title line of the data list, the check box status of all data items in the data list are consistent with it; conversely, if all the check boxes in front of the data items are clicked to be selected, then the check box status of the title line of the data list is also switched with it.

6.2 Module 2: Application Software Development

6.2.1 Module Examination Points

Module mark: 55 points

This module focuses on the competitor's business design, front-end page development and back-end business code writing skills, including:

1. Front-end page development. Based on the given system requirements, use the data interface provided by the back-end API, use HTML5, CSS3, JavaScript, Vue.js (ElementUI, vue-element-admin) and other technologies to complete the front-end page following the MVVM model to realize the business functions, and the coding is required to comply with the technical specifications for front-end engineering development.

2. Back-end business development. Based on the given system requirements, use visual development tools to design the database, and use Spring Boot framework to realize the back-end business functions, complete the RESTful API interface development, and release the operation. Requirements for the design of the Spring Boot framework in line with the Domain/POJO, DAO, Service, Controller layered architecture model, coding in line with the naming and commenting specifications.

6.2.2 Task Requirements

1. using database visual management tools, create sports database, and import sports.sql database file, according to the competition task description, after the realization of the project business functions, export the database script sports.sql. database account / password: root/123456.

2. Using the back-end development tools IntelliJ IDEA, open the back-end project sports, according to the competition task description, to achieve the project business functions, and

then use Maven to package the project as sports.jar package file.

3. Use the front-end development tools, open the management front-end project, according to the competition task description, to achieve the project business functions, and then released to the production environment dist1 folder, using Nginx for deployment, in the browser type http://IP:8088, to validate the management side of the business functions, the use of admin/admin123 to log in to the Olympic Games management system.

4. Using the front-end development tool, open the user front-end project, according to the description of the competition tasks, realize the project business functions, and then publish it as the production environment dist2 folder, use Nginx for deployment, type http://IP:8081 within the browser to verify the business functions of the user front-end.

5. Before the end of the competition, the contestants will be the results of the above "sports.sql", "sports.jar", "dist1", "dist2" to the "application system development.zip" compressed package, and submit the compressed package file.

6.2.3 Task of the Competition

Participants complete the management front-end and back-end development tasks according to the task descriptions provided by the client and in accordance with the task requirements of Module 2.

Task 1: Ticketing and Visitor Services - Ticket Sales

[Basic Requirements]

1. Enter the main interface of Olympic Games Management System, click the Ticket Sales tab under Tickets and Audience Services on the left to enter the Ticket Sales Management page. Realize the data list display of ticket sales in pages, and the content of the data list display in pages should include: number, event name, ticket type, ticket price, total

tickets, sold tickets, [Modify] and [Delete] buttons.

2. Click the [Modify] button to bring up the "Ticket Sales" dialog box, which can be modified to include: event name, ticket type, ticket price, total ticket quantity and ticket quantity sold, and click the [OK] button to save the modified content and refresh the paged data list after the modification is completed, and click the [Cancel] button to close the dialog box.

3. Click the [Delete] button to pop up a warning dialog box, prompting the content of "whether to confirm the deletion of the current number of xx data items? Click the [OK] button to delete the corresponding ticket information data and prompt the word "Delete Success", if you click the [Cancel] button to close the dialog box.

4. Input events (drop-down list) and ticket categories into the search box above the paged data list and click the [Search] button to realize the function of querying according to the search conditions and refresh the paged list data, and if you click the [Reset] button, you can clear the query conditions inputted.

5. The [New] button is displayed on the top of the data list, after clicking the [New] button, the "Ticket Sales" dialog box will pop up, the editable contents in the dialog box include: name of the event, ticket category, ticket price, total ticket quantity and sold ticket quantity, after editing is completed, click the [OK] button to save the contents and refresh the paged list of data, and if you click the [Cancel] button, you can close the dialog box.

6. The [Modify] button is displayed at the top of the data list, which can be clicked when a single data item in the data list is selected. After clicking the [Modify] button, the "Ticket Sales" dialog box pops up, and the contents that can be modified in the dialog box include: the name of the tournament, the ticket type, the ticket price, the total number of tickets, and the number of tickets that have been sold. After the modification is completed, click the [OK]

button to save the modification and refresh the paged data list, and click the [Cancel] button to close the dialog box. dialog box.

7. The [Delete] button is displayed above the data list, and you can click it after selecting the data items in the data list. Clicking the [Delete] button brings up a warning dialog box, which prompts, "Is it confirmed to delete the data item with the current number xx? Click the [OK] button to delete the corresponding ticket information data and prompt the word "Delete Success", if you click the [Cancel] button to close the dialog box.

Task 2: Ticketing and Visitor Services - Audience Guide

[Basic Requirements]

1. Enter the main interface of the Olympic Games management system, click the Audience Guide label under Tickets and Audience Services on the left side to enter the Audience Guide page. Realize the display of the data list of the spectator guide in pages, and the content of the display of the data list in pages should include: number, event name, venue map, transportation guide, safety instructions, [Modify] and [Delete] buttons.

2. Click the [Modify] button to bring up the "Viewer's Guide" dialog box, which can be modified to include: event name, venue map, transportation guide and safety instructions; click the [OK] button to save the modifications and refresh the paged data list after modification is completed, and click the [Cancel] button to close the dialog box.

3. Click the [Delete] button to pop up a warning dialog box, prompting the content of "whether to confirm the deletion of the current number of xx data items? Click the [OK] button to delete the corresponding audience guide information data and prompt the word "Delete Successfully", if you click the [Cancel] button to close the dialog box.

4. Input the tournament (drop-down list) in the search box above the paged data list and

click the [Search] button to realize the function of querying according to the search conditions and refresh the paged list data, and if you click the [Reset] button, you can clear the query conditions inputted.

5. The [New] button is displayed on the top of the data list, after clicking the [New] button, the "Spectator Guide" dialog box will pop up, the editable contents in the dialog box include: the name of the tournament, the venue map, the transportation guide and the safety instructions, after editing is completed, click the [OK] button to save the contents and refresh the paged list of data, and if you click the [Cancel] button, you can close the dialog box.

6. The [Modify] button is displayed on the top of the data list, which can be clicked when a single data item in the data list is selected. After clicking the [Modify] button, the "Spectator's Guide" dialog box pops up, and the contents that can be modified in the dialog box include: the name of the tournament, the map of the stadium, the traffic guide and the safety instructions, and the contents can be saved and the paged data list can be refreshed when the modification is completed by clicking the [OK] button; the dialog box can be closed by clicking the [Cancel] button. If you click [Cancel] button, you can close the dialog box.

7. The [Delete] button is displayed above the data list, and you can click it after selecting the data items in the data list. Clicking the [Delete] button brings up a warning dialog box with the message "Is it confirmed to delete the data item with the current number xx? Click the [OK] button to delete the corresponding audience guide information data and prompt the word "Delete Success", if you click the [Cancel] button to close the dialog box.

Task 3: Safety and Health Protocol - Health Detection

[Basic Requirements]

1. Enter the main interface of the Olympic management system, click on the health

detection label under the safety and health agreement on the left side, and enter the health detection page. Realize the display of paged data list of health detection, and the content of paged data list display should include: number, personnel type, health detection details, medical support information, [Modify] and [Delete] buttons.

2. Click the [Modify] button to bring up the "Health Check" dialog box, which can be modified to include: person type, health check details, and medical support information. After the modification, click the [OK] button to save the modification and refresh the paged data list, and click the [Cancel] button to close the dialog box.

3. Click the [Delete] button to pop up a warning dialog box, prompting the content of "whether to confirm the deletion of the current number of xx data items? Click the [OK] button to delete the corresponding health inspection information data and prompt the word "Delete Successfully", if you click the [Cancel] button to close the dialog box.

4. Input the type of personnel in the search box above the paged data list (drop-down list, including athletes and staff) and click the [Search] button to realize the function of querying according to the search conditions and refresh the paged list of data, and if you click the [Reset] button, you can clear the query conditions entered.

5. The [New] button is displayed on the top of the data list. After clicking the [New] button, the "Health Check" dialog box will pop up, and the editable contents in the dialog box include: type of personnel, details of health check, and information of medical support. After editing, clicking the [OK] button can save the contents and refresh the paged list of data, and the dialog box can be closed if clicking the [Cancel] button.

6. The [Modify] button is displayed on the top of the data list and can be clicked when a single data item in the data list is selected. When the [Modify] button is clicked, the "Health Check" dialog box pops up, and the editable contents in the dialog box include: personnel

type, health check details and medical support information; when the modification is completed, click the [OK] button to save the modification contents and refresh the paged data list, and the [Cancel] button can close the dialog box. Click [Cancel] button to close the dialog box.

7. The [Delete] button is displayed on top of the data list, and you can click it after selecting the data items in the data list. Clicking the [Delete] button brings up a warning dialog box with the message "Is it confirmed to delete the data item with the current number xx? Click the [OK] button to delete the corresponding health inspection information data and prompt "Delete Success", if you click the [Cancel] button to close the dialog box.

Task 4: Accommodation and Transportation - Accommodation Arrangements

[Basic Requirements]

1. Enter the main interface of Olympic Games Management System, click the Accommodation Arrangement tab under Accommodation and Transportation on the left to enter the Accommodation Arrangement page. Realize the data list display of Accommodation Arrangement in pages, and the content of the data list display in pages should include: number, type of personnel, name of accommodation, address of accommodation, check-in time, check-out time, number of rooms, [Modify] and [Delete] buttons.

2. Click the [Modify] button to bring up the "Accommodation Arrangement" dialog box, which can be modified to include: person type, accommodation name, accommodation address, check-in time, check-out time and the number of rooms, and when the modification is completed, click the [OK] button to save the modification and refresh the paged data list, and click the [Cancel] button to close the dialog box.

3. Click the [Delete] button to pop up a warning dialog box, prompting the content

"whether to confirm the deletion of the current number of xx data items?", click the [OK] button to delete. Click the [OK] button to delete the corresponding accommodation arrangement information data and prompt the word "Delete Success", if you click the [Cancel] button to close the dialog box.

4. Input the type of personnel in the search box above the paged data list (drop-down list, including athletes, staff, media representatives), accommodation name, accommodation address and click [Search] button to realize the function of querying according to the search conditions and refresh the data of paged list, and if you click [Reset] button, you can clear the query conditions inputted.

5. The [New] button is displayed on the top of the data list, after clicking the [New] button, the "Accommodation Arrangement" dialog box will pop up, the editable contents in the dialog box include: type of personnel, name of accommodation, address of accommodation, check-in time, check-out time and number of rooms, after editing is completed, click the [OK] button to save the contents and refresh the paged list of data, and if you click the [Cancel] button, you can close the dialog box.

6. The [Modify] button is displayed at the top of the data list, which can be clicked when a single data item in the data list is selected. After clicking the [Modify] button, the "Accommodation Arrangement" dialog box pops up, in which you can modify the contents, including: type of person, name of accommodation, address of accommodation, check-in time, check-out time and the number of rooms, and when you have completed the modification, you can click [OK] to save the modification contents and refresh the paged data list, and click [Cancel] to close the dialog box. If you click the [Cancel] button, you can close the dialog box.

7. The [Delete] button is displayed on top of the data list, and you can click it after

selecting the data items in the data list. Clicking the [Delete] button brings up a warning dialog box with the message "Is it confirmed to delete the data item with the current number of xx?". Click the [OK] button to delete the corresponding accommodation arrangement information data and prompt the word "Delete Success", if you click the [Cancel] button to close the dialog box.

Task 5: Olympic Information Network - Volunteer Information Center

[Basic Requirements]

1. Enter the main interface of Olympic Information Network, click Volunteer Information Center on the top menu bar to enter the Volunteer Information Center page. Realize the Volunteer Information Center page. The top of the page displays the picture of the Volunteer Information Center, and the middle of the page displays the list of information, which includes the release time, information title, publisher, number of views, information profile, and [View] button.

2. Click the View button to jump to the "Information Details" page. The top of the page displays the title of the message, and the bottom of the page displays the publisher, release time, number of views, and details of the message.

Task 6: Olympic Information Network -- News Bulletin

[Basic Requirements]

1. Enter the main interface of the Olympic Information Network, click the news bulletin in the top menu bar to enter the news bulletin page. The top of the page displays the background Logo of Olympic Information Network, the bottom of the Logo displays the title of "Information Bulletin", and the bottom of the title displays the card list of news and

information bulletin. The elements in each card include: Icon on the left side, title of the announcement on the top right side, and enterprise (organization) and release time on the bottom right side. The default list displays four rows and three columns of card data, and the bottom of the list displays the [View More] button, which displays more news bulletin information after clicking the list.

2. After clicking the list item in the list of news and information bulletins, the page jumps to the "News Details" page. The top of the page displays the title of the news and information bulletin, and the bottom of the page displays the release company, release time, number of views, and news details.

6.3 Module 3: System Deployment Testing

6.3.1 Module Examination Points

Module mark: 20 points

This module focuses on examining the participants' system deployment, functional testing, Bug troubleshooting and repair and document writing ability, specifically including:

1. System Deployment. Publish the given project into the integrated deployment tool to ensure normal operation.

2. Functional testing and bug fixing. Using the given front and back-end source code, formulate test strategies, design test cases, and complete the specified functional tests; record the bugs appeared in the test, and analyze and repair the bugs; based on the test report template, write system test reports.

6.3.2 Task Requirements

1. Project Preparation

(1) Use the database visual management tool to create the sports database and import the sports.sql database file. Database account / password: root/123456.

(2) Using the back-end development tool IntelliJ IDEA, open the back-end project sports, and run.

(3) Using the front-end development tool, open the management front-end project and run it. Utilize admin/admin123 to log into the Olympic management system.

(4) Using the front-end development tool, open the user front-end project and run it.

2. Based on the system to be tested, carry out functional testing and make functional corrections to the specified bugs, and complete the writing of "Software Test Report.docx" and "System Functional Correction Report.docx" documents.

3. Before the end of the competition, the contestants will add the above results "Software Test Report.docx" and "Software Functional Correction Report.docx" to the "System Deployment Test.zip" zip file. Add the above results to the "System Deployment Test.zip" and "Software Functional Correction Description.docx", and submit the zip file to the competition management platform.

6.3.3 Task of the Competition

Task 1: Functional Testing and Specified Bug Fixes

(i) Functional Testing

According to the "Olympic Games Management System Functional Test Scope.pdf" in the description of the functional scope of the full-scope test, to find specific at least 5 bugs, according to find out the bugs for defect analysis, analyze the reasons for the emergence of

the bugs, and fill out the "system test report template" in the defect form, the defect form samples are shown in Table 1.

Table 1 Defect analysis table

Defect Number	01
Brief Description of Defect	In Health Detection,clicking the [Search] button does not respond.
Defect Reproduction Steps	<ol style="list-style-type: none"> 1. Users log in to the Olympic Management System after losing their account password; 2. Click the Health Detection tab in the safety and health protocol to enter the Health Detection Management page; 3. After selecting the type of personnel and clicking the [Search] button, there is no response.
Degree of Defect Verification	nasty Defect level: (fatal, nasty, fair, suggestive)
Functional Module Involved	Safety and Health Protocol - Health Detection
Reason for Defect Analysis	No binding of the [Search] button click event
Screenshots of Defective Features

(ii) Specified Bug Fixes

Fix the following bugs and complete the "System Functionality Fix Report.docx" document.

Table 2 Sample System Functionality Correction Report

Bug Number	001
Bug Fix Screenshot
Modify the File Name &	File Name:XXX.java

Corresponding Code	Corresponding Code is as follows:
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(1) No response to clicking the Add button in the audience navigation

Enter the main interface of Olympic Games Management System, click on "Accommodation and Transportation Dispatch" and then click on the "Spectator Navigation" tab on the left side to enter the Spectator Navigation Management Interface.

[Basic Requirements]

Note: The contestant should correct the errors according to the described functional defects and fix the corresponding errors.

After clicking the [New] button, the dialog box for adding new audience navigation should pop up, and the information should include: accommodation information, transportation information and audience guide, but the dialog box for adding new audience navigation cannot pop up after clicking the [New] button on the current page, so please find out the corresponding errors and correct them.

(2) The event drop-down box in the search ribbon of the event distribution cannot view the corresponding data

Enter the main interface of Olympic Games Management System, click on "Volunteer Management" and then click on the "Activity Assignment" tab on the left side to enter the activity assignment management interface.

[Basic Requirements]

Note: Players need to correct the errors according to the described functional defects and fix the corresponding errors.

The search function area of the event allocation page includes the volunteer drop-down list and the event drop-down list. After clicking on the event drop-down list, all the event names should be displayed and you can search according to the event you have selected, but now the event drop-down list fails to display the corresponding event name data, so please find out the corresponding bugs and correct them.

(3) Unable to batch select all data in ticket management

Enter the main interface of Olympic Games Management System, click on "Tickets and Spectator Services" and then click on the "Ticket Management" tab on the left side to enter the ticket management interface.

[Basic Requirements]

Note: Players are required to correct the errors according to the described functional defects and fix the corresponding errors.

Ticket management data list display content should include: number, event name, ticket price, ticket quantity, [Modify] and [Delete] buttons, clicking the check box on the top left of the data list can select all ticket data, but now it is not possible to batch select all ticket data after clicking the check box, please find the corresponding errors and correct them.

(4) Delete function of data list in press release does not respond after clicking on it

Enter the main interface of Olympic Games Management System, click on "Media & PR" and then click on the "Press Release" tab on the left side to enter the press release management interface.

[Basic Requirements]

Note: The contestants need to correct the errors according to the described functional

defects and fix the corresponding errors.

The list of news release data includes: number, news title, news content, release date, [Modify] and [Delete] buttons. Clicking the [Delete] button should delete the data and refresh the page, but there is no response after clicking [Delete] on the current page, so please find the corresponding errors and correct them.

(5) The data displayed in the result record data list is the race id, the winning athlete id and the losing athlete id

Enter the main interface of Olympic Games Management System, click on "Event Management" and then click on the "Result Record" tab on the left side to enter the result record management interface.

[Basic Requirements]

Note: Players are required to make corrections according to the described functional defects and fix the corresponding errors.

The result record data list display includes: number, event name, winning athlete name, losing athlete, [Modify] and [Delete] buttons, the data list should display the event name, winning athlete name and losing athlete name, and now the data list displays the event id, winning athlete id and losing athlete id, so please find the corresponding errors and correct them.



2024 BRICS SKILLS COMPETITION

