Product Backlog

Team 11

Yuxi Chen Rendong Chen Pan Ma Yilin Long Zeying Guo

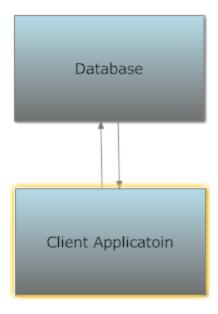
Problem Statement

The student organization PUCSSA holds a talent competition every year. An electronic managing system is needed to record scores for the competition.

Background Information

Every year PUCSSA hosts a talent competition. Each competition consists of several rounds, where competents contest on different subjects such as singing and dancing. Meanwhile, there are judges who evaluate the performance of each competent in every contest. The purpose of this system is to ease PUCSSA's hosting process by enabling digitized recording and managing of competition information, competent evaluation, and contest results.

Environment and System Models



Client side:

Client is able to add or modify data in database. It allows contestant to view their qualification, schedule of competitions, and contest results. Judges are granted the permission to manage the schedule of each competition, to assign contestants to a round, and to easily review the final results.

Database side:

Database contains five tables namely: Contestant, Judge, Round, Enrollment, Evaluation, EvaluationScore and Notice. It gives feedback containing requested information to client.

Functional Requirements

- Interaction between User and Client Application
 - Judge User
 - The LoginScreen allows a judge user to login by entering the correct user ID and password.
 - The CreateARoundScreen allows a judge user to create a competition round by specifying detail information of a competition round.
 - The ModifyARoundScreen allows a judge user to modify a competition round by specifying detail information of a competition round.
 - The AssignContestantScreen allows a judge user to assign a contestant to the competition round in which the contestant is attending.
 - The CreateAnEvaluationScreen allows a judge user to create an evaluation item for each competition round. For example, singing could be an evaluation in the talent competition.
 - The ModifyAnEvaluationScreen allows a judge user to modify an evaluation item for each competition round.
 - The EnterScoreScreen allows a judge user to record the score of each contestant.
 - The ReportOfRoundsScreen allows a judge user to see a report of each competition round including information such as the corresponding number of contestants.
 - The ReportOfContestantsAndScoresScreen allows a judge user to see a report of the scores of each contestant.

Contestant User

- A Contestant user could login by entering the correct user ID and password.
- The CalendarOfEvaluationScreen allows a contestant user to see a list of the score posting date of each evaluation so that

- he/she could check his/her score on that day.
- The ReportOfRoundScreen allows a contestant user to check the detail information of each competition round.
- The ReportOfScoreScreen allows a contestant user to check his/her scores on each competition round.

• Interaction between Client Application and Database Server

- The client application could send SQL query request to the database server.
- The database server should return corresponding query result to the client.

Non-functional Requirements

- Response time
 - The latency from clicking buttons and rendering UI elements should be unnoticeable
 - The latency from querying the database should be less than 1 second
- Usability
 - User Interface should be easy and intuitive for our clients to use
- Availability
 - The application should work normally all the time
- Resource Usage
 - The application should not use so much memory that will slow down the client's OS
- Reliability
 - The application should return the right results all the time
- Platform
 - We will use Java with MySQL database. It should work on any platform with JRE installed

Use Cases

Case: Judge wants to login as judge

- 1) User enters user ID and password
- 2) User selects login role: Judge
- 3a) If credential is correct, logged in into JudgeMenuScreen
- 3b) If credential is incorrect, popup box saying "ERROR: invalid credential"

Case: Judge wants to logout

- 1) User is on menu screen
- 2) User clicks on logout button
- 3) User will go back to login screen

Case: Judge can create a round

- 1) User clicks on "Create a round" button
- 2) User fills out required round details
- 3) User submits the form
- 4a) If all the data is valid, a new round will be created
- 4b) If there is invalid data, an error message will popup

Case: Judge can modify a round

- 1) User clicks on "Modify a round" button
- 2) User selects a round which need to be modified
- 3) User fills out required round details
- 4) User submits the form
- 5a) If all the data is valid, the round will be modified
- 5b) If there is invalid data, an error message will popup

Case: Judge can assign contestant to a round

- 1) User clicks on "Assign contestant to round" button
- 2) User selects a contestant ID which need to be assigned
- 3) User selects a round name
- 4a) If contestant is not in the round, he/she will be assigned to the selected round
- 4b) If contestant is already in the round, an error message will popup

Case: Judge can create an evaluation

1) User clicks on "Create an evaluation" button

- 2) User selects a round
- 3) User fills out required details for evaluation
- 4) User submits the form
- 5a) If all the data is valid, a new evaluation will be created
- 5b) If there is invalid data, an error message will popup

Case: Judge can modify an evaluation

- 1) User clicks on "Modify an evaluation" button
- 2) User selects a round
- 3) User selects a evaluation type which need to be modified
- 4) User fills out required details for evaluation
- 5) User submits the form
- 6a) If all the data is valid, the evaluation will be modified
- 6b) If there is invalid data, an error message will popup

Case: Judge can enter score

- 1) User clicks on "Enter score" button
- 2) User selects round, evaluation type to specify the evaluation
- 3) User selects a contestant ID which need to be scored
- 4) User enters the score
- 5a) if the data is valid, the user will be scored
- 5b) if the data is invalid, an error message will popup

Case: Judge can view report of rounds

- 1) User clicks on "Report of rounds" button
- 2) User can see the details of all the rounds

Case: Judge can view report of contestants and scores

- 1) User clicks on "Report of contestants and scores" button
- 2) User can see the details of all the contestants and their scores

Case: Contestant wants to login as contestant

- 1) User enters user ID and password
- 2) User selects login role: Contestant
- 3a) If credential is correct, logged in into ContestantMenuScreen
- 3b) If credential is incorrect, popup box saying "ERROR: invalid credential"

Case: Contestant can view calendar of evaluations

- 1) User clicks on "Calendar of evaluations" button
- 2) User can see the date of all the rounds and evaluations

Case: Contestant can view report of rounds

- 1) User clicks on "Report of rounds" button
- 2) User can see the details of all the rounds

Case: Contestant can view report of contestants and scores

- 1) User clicks on "Report of contestants and scores" button
- 2) User can see the details of all the contestants and their scores