

CPSC 304 Project Cover Page

Milestone #: 3

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Group Number: 08

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia.

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Task Distribution

Task	Responsibility		
	Yingquan Wang	Jia Lu	Qiyu Zhou
Frontend			
GUI Design - Main Page	•		
GUI Design - Fan Registration Page			•
GUI Design - Fan management page			•
GUI Design - Fan Modification page			•
GUI Design - Awarded players page	•		
GUI Design - Search Page	•		
GUI Design - Team List Page	•		
GUI Design - Player List Page	•		
GUI Design - Team Page	•		
GUI Design - Player Page	•		
Displaying Sorted Data		•	
Taking Input Data from Users		•	
Backend			
Buiding the Query		•	
Fetching Required Info from Database to GUI		•	
Inputting Data from GUI to Database			•
Sorting Tables Fetched from Database		•	
Providing Feedbacks to User Inputs			•
Database			
Table Creation			•
Data Insertion			•

Timeline

Task/Milestone	Nov																								
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
Frontend																									
GUI Design - Main Page																									
GUI Design - Fan Registration Page																									
GUI Design - Fan Management Page																									
GUI Design - Fan Modification page																									
GUI Design - Awarded players Page																									
GUI Design - Search Page																									
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Inputting Data from GUI to Database																									
Sorting Tables Fetched from Database																									
Providing Feedbacks to User Inputs																									
Data Base																									
Table Creation																									
Data Insertion																									

Challenges/Things Left To Do

GUI Development

We can foresee that the first challenge is implementing the web GUI since some group members have not learned web development before. We choose to use React to build our frontend, but we are just beginners using this tool, so we might have to learn a lot of new things including how to connect to the backend, how to design a good components structure and how to use React Hooks. We will do our best, including learn the language, search through forums, post questions on Piazza and ask instructors questions.

Query

Our concerns come from other query requirements in milestone 5 specification. We are not sure about how to put the unlearned ones into our project, but we think we will figure it out as we progress in the course.

Data Input

Our first thought about how to manage the database is a bit off from what the rubric asked for. We were thinking about generating all data from the backend as administrator, and the users will get filtered or sorted information from the algorithm in the backend through the GUI, while the rubric asked us to make it possible to input data through GUI. Our solution for now would be to make another page called “fan registration page”, which is designated to allow data input by users.

Database

Since we need to create tables and insert data in the database using file, the order of table creation and data insertion is pivotal. We should start with the ones without foreign keys, and then build up the database by backtracking which tables have those kind of tables as foreign keys.


GUI Design

Main Page



Fan Registration Page (Insert Operation)

NBA Fan Club



Players

Teams

Become a fan

Name:

Email:

Favorite Team:

Register

Search Page (Selection)


NBA Fan Club


Players

Teams

Become a fan

Team or Player





Result 1


Result 2

Result 3

Result 4


Result 5

Result 6



Team List Page

NBA Fan Club



Players

Teams

Become a fan

Teams

Team Name 1

Team Name 2

Team Name 3


Team Name 4

Team Name 5

Team Name 6

Player List Page

NBA Fan Club



Players

Teams

Become a fan

Players

Player Name 1

Player Name 2

Player Name 3

Player Name 4

Player Name 5

Player Name 6

Player Page9

Awarded Players Page (Join)

NBA Fan Club

Players

Teams

Become a fan

Awarded Players

Season:

Player	Award	Season
Player Name 1	Award Name 1	Season 1
Player Name 2	Award Name 2	Season 2
Player Name 3	Award Name 3	Season 3
Player Name 4	Award Name 4	Season 4
Player Name 5	Award Name 5	Season 5
Player Name 6	Award Name 6	Season 6

Fan Management Page (Delete Operation, Projection)

NBA Fan Club

Fan Management

Delete

	FanID <input type="checkbox"/>	Name <input type="checkbox"/>	Email <input type="checkbox"/>	Fav Team <input type="checkbox"/>	
<input type="checkbox"/>	fanID 1	Name 1	Email 1	Fav Team 1	Modify
<input type="checkbox"/>	fanID 2	Name 2	Email 2	Fav Team 2	Modify
<input type="checkbox"/>	fanID 3	Name 3	Email 3	Fav Team 3	Modify
<input type="checkbox"/>	fanID 4	Name 4	Email 4	Fav Team 4	Modify
<input type="checkbox"/>	fanID 5	Name 5	Email 5	Fav Team 5	Modify

NBA Fan Club

Fan Management

Name:

Email:

Favorite Team:

Modify