

American International University-Bangladesh Department of Computer Science and Engineering Dhaka, Bangladesh

$00892~{\rm ADVANCE~DATABASE~MANAGEMENT~SYSTEM}$

 ${\bf PROJECT\ Report}$

[B][SUMMER 22-23]

E-Sports Management System

Submitted by

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Ideas	25%	25%	25%	25%	100(%)

Contents

1	\mathbf{Intr}	oducti	on														1
	1.1	Projec	Proposal														1
		1.1.1	What is eSports?														1
		1.1.2	What is the prob	lem?													1
		1.1.3	What is the solut	ion?.													1
	1.2	Projec	Scenario														2
2	Diag	grams															3
	2.1	ER Dia	agram														3
	2.2	Class I	Diagram														4
	2.3	Use Ca	se Diagram														5
	2.4	Activit	y Diagram														6
3	Use	r Inter	face														7
	3.1		ologies Used														7
		3.1.1	Login Page														7
		3.1.2	Home Page														7
		3.1.3	Tournament Page														8
		3.1.4	_														8
		3.1.5	Game Page														8
4	Nor	maliza	tion and Schem	a Desi	gn												9
-	4.1		lization		_		_								_	_	9
		4.1.1	First Normal For														9
		4.1.2	Second Normal F														9
		4.1.3	Third Normal Fo														9
		4.1.4	Final Table														9
	4.2	Schema	a Diagram														10
5	SOI	Queri	es														11
_	5.1	•	.ce														11
	5.2	-	Creation														11
	5.3		nsertion														11
	5.4		election \dots														11
	5.5	Data U															12
	5.6	•											$\frac{12}{12}$				
	5.7		ons and Joins														12
	~·•	5.7.1	Single Row Func														12
		5.7.2	Group Functions														12
		5.7.3	Joins														12

Introduction

1.1 Project Proposal

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1.1.1 What is eSports?

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1.1.2 What is the problem?

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1.1.3 What is the solution?

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1.2 Project Scenario

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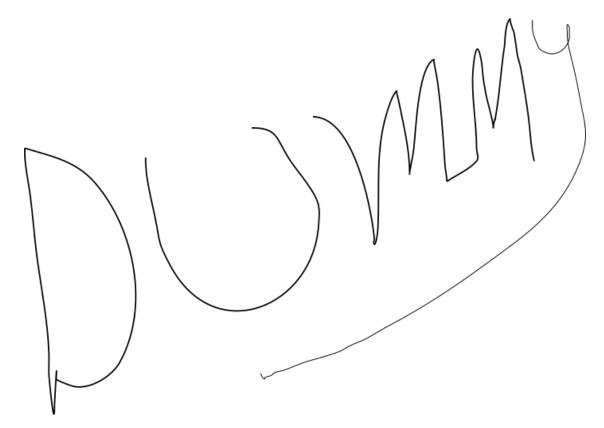
Diagrams

2.1 ER Diagram



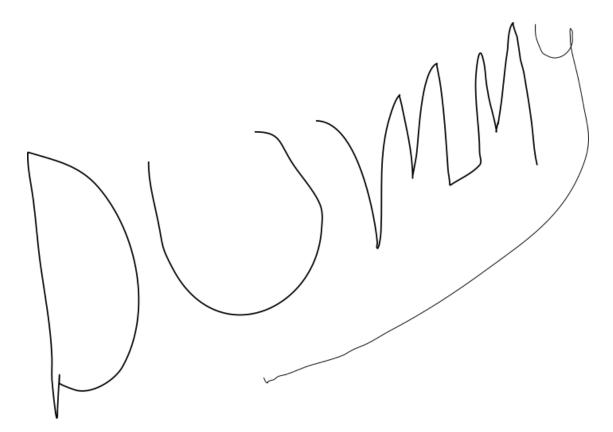
ER Diagram

2.2 Class Diagram



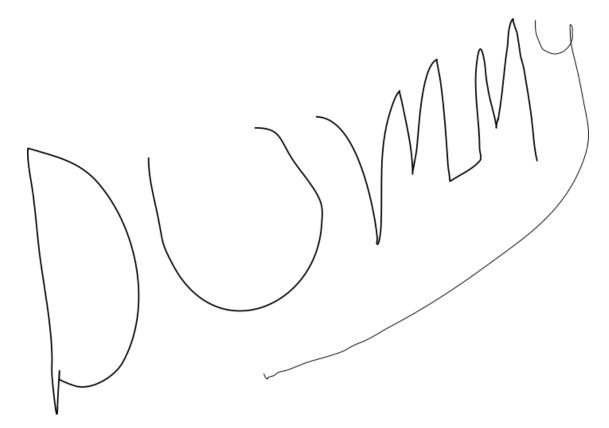
Class Diagram

2.3 Use Case Diagram



Use Case Diagram

2.4 Activity Diagram



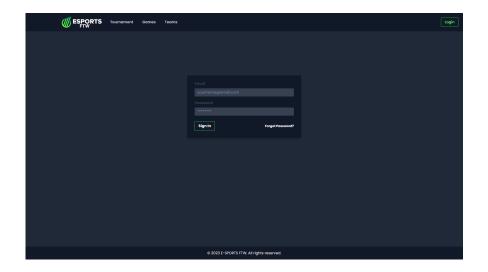
Activity Diagram

User Interface

3.1 Technologies Used

- SvelteKit
- Tailwind CSS

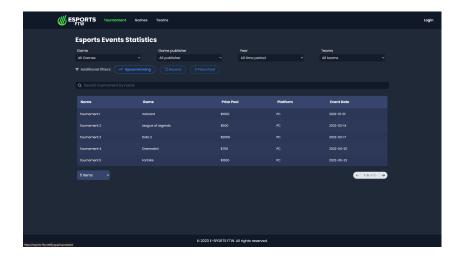
3.1.1 Login Page



3.1.2 Home Page



3.1.3 Tournament Page



3.1.4 Team Page



3.1.5 Game Page



Normalization and Schema Design

4.1 Normalization

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4.1.1 First Normal Form

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4.1.2 Second Normal Form

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4.1.3 Third Normal Form

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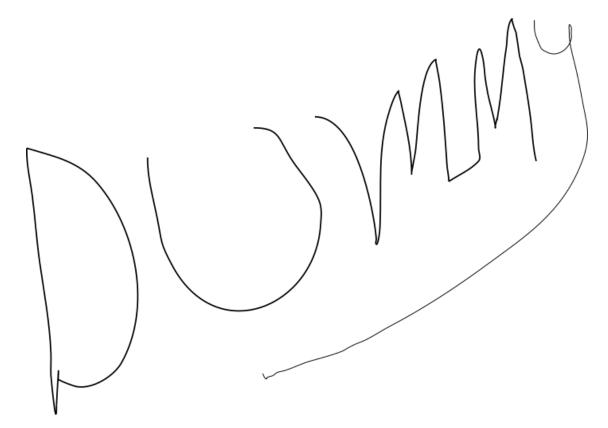
4.1.4 Final Table

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4.2 Schema Diagram



Schema Diagram

SQL Queries

5.1 Sequence

```
-- A Sample query for Creating a Sequence
CREATE SEQUENCE sequence_name
START WITH 1000
INCREMENT BY 1
NOCACHE
NOCYCLE;
```

Sample Sequence

5.2 Table Creation

```
-- A Sample query for Creating a table
CREATE TABLE table_name (

column1 datatype,

column2 datatype,

column3 datatype,

....

);
```

Sample one Table

5.3 Data Insertion

```
-- A Sample query for Inserting data into a table
INSERT INTO table_name (column1, column2, column3, ...)
VALUES (value1, value2, value3, ...);
```

Sample one Table

5.4 Data Selection

Sample one Table

5.5 Data Update

```
-- A Sample query for Updating data in a table
UPDATE table_name
SET column1 = value1, column2 = value2, ...
WHERE condition;
```

Sample one Table

5.6 Data Deletion

Sample one Table

5.7 Functions and Joins

5.7.1 Single Row Functions

```
-- A Sample query for Single Row Functions
SELECT function_name(column_name)
FROM table_name;
```

Sample one Table

5.7.2 Group Functions

```
-- A Sample query for Group Functions

SELECT function_name(column_name)

FROM table_name

WHERE condition

GROUP BY column_name;
```

Sample one Table

5.7.3 Joins

```
-- A Sample query for Joins
SELECT table1.column1, table2.column2...
FROM table1, table2
WHERE table1.column_name = table2.column_name;
```

Sample one Table