Development of an Application for Managing Speed Skating Events

Karlstad, 9th of June 2011

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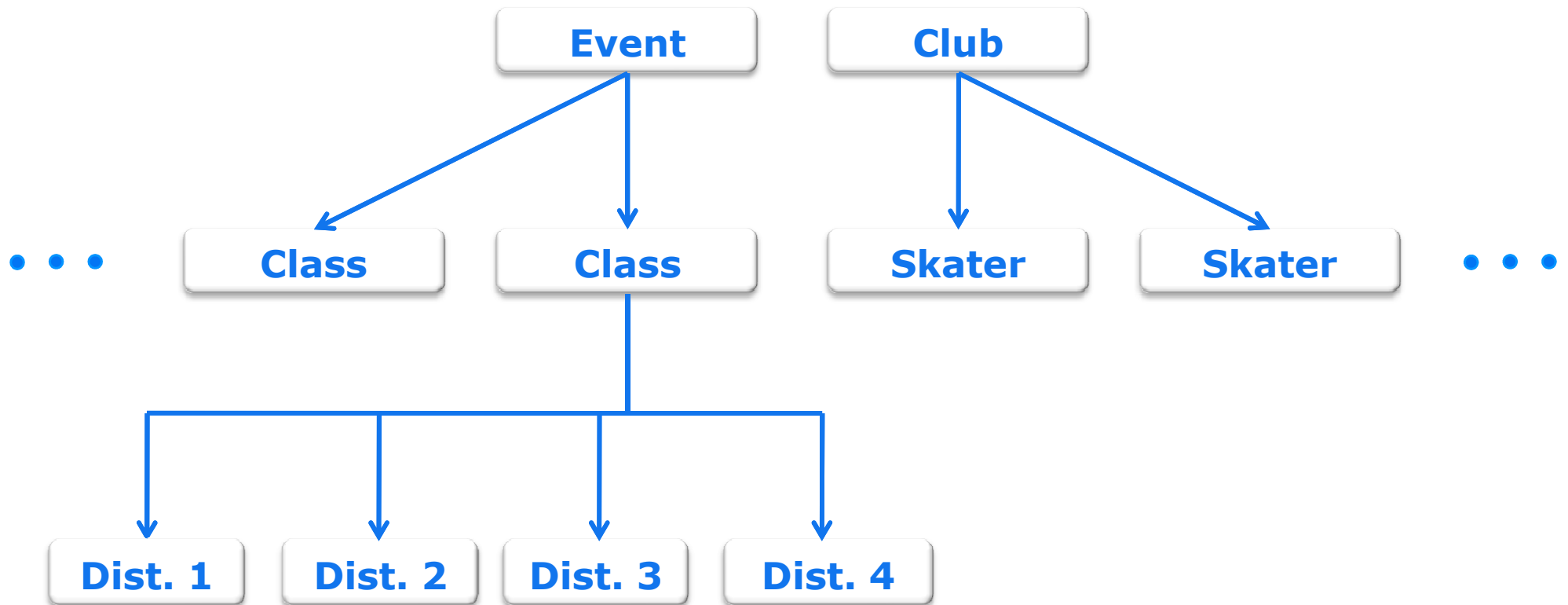 - The result list
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Source: Vancouver 2010

Introduction to Speed Skating

- Competitive form of ice skating
- Division into classes according to age and gender
- Skaters race 4 distances in their class
- 2 skaters starting at the same time
- Manually or automatically time-measuring
- Skater can:
  - Complete a race
  - Fall, have a personal best, have a personal best after falling
  - not start, not finish, be disqualified

- Before the race → Starting list
- After the race → Result list

Introduction to Speed Skating

Steps for Creating and Managing an Event

- Create clubs and skaters
- Create classes and distances
- Create an event and register classes and distances
- Add skaters to classes of the event
- Create starting list for each race
    - Different sorting algorithms
- Enter results with status
- Create a result list

Background – The old System

Background – Required Changes

	Old System	New System
	• Server-Application	• Desktop-Application
User Interface	• Web-based UI	• Regular UI
Database	• MySQL-database	• SQL-database • Import and Export Possibility
Starting List	• Enter results	• Enter results • Different sorting algorithms • Export to Microsoft Excel
Result List		• Sort skaters by result • Export to Microsoft Excel

The Application – The Starting List

- Showing the skaters in starting order
- Paired up
- Order depending on sorting algorithm
  - Random
  - Personal Best
  - Ranking

Starting List - Karlstad Nordiska - Pojkar 11-12 - Distance 1 - 500m

Pair	Lane	No.	Name	Country	Club	Result	Status	Personal Best	
1	O	5	Mathias Solberg	NOR	Kongsvinger Skøyteklubb	01:02:12		00:59:74	
2	I	2	Max Sjöstedt-Eriksson	SWE	IF Thor	01:00:42		01:00:07	
2	O	7	David Karlingsjö	SWE	SK Trollhättan	00:55:23		00:53:92	
3	I	3	Isak Höiby	NOR	Kongsvinger Skøyteklubb	00:00:00	Disqualified	00:53:92	
3	O	4	Per Henry Röttum	NOR	Kongsvinger Skøyteklubb	01:31:04	Fell	01:19:79	
4	I	6	Kevin Jacobsson	SWE	Motala AIF	00:00:00	Pending	01:10:45	
4	O	1	Erik Wetterdal	SWE	IF Thor	00:00:00	Pending	01:25:78	

The Application – The Result List

- Depending on the chosen races
- Shows skaters sorted by achieved time and status

Result list - Karlstad Nordiska - Pojkar 11-12 - Distance 1 - 500m

Rank	No.	Name	Country	Club	Pair	Lane	Result	Points	Status
1	7	David Karlingsjö	SWE	SK Trollhättan	2	O	00:55:23	55.23	
2	2	Max Sjöstedt-Eriksson	SWE	IF Thor	2	I	01:00:42	60.42	
3	5	Mathias Solberg	NOR	Kongsvinger Skøyteklubb	1	O	01:02:12	62.12	
4	4	Per Henry Röttum	NOR	Kongsvinger Skøyteklubb	3	O	01:31:04	91.04	Fell
5	1	Erik Wetterdal	SWE	IF Thor	4	O	00:00:00	0	Pending
6	6	Kevin Jacobsson	SWE	Motala AIF	4	I	00:00:00	0	Pending
7	3	Isak Höiby	NOR	Kongsvinger Skøyteklubb	3	I	00:00:00	0	Disqualified

Demonstration

Conclusion

The Application:

- Includes all required functionality
- Can be used by the customer

Any Questions?

Thank you for listening!