Object Oriented Software Engineering

Course: CSE-3311-001

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Team 1

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The National Trade Show Services Business Description

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Brainstorming Result

The National Trade Show Services (NTSS)1 is a9 service provider that helps3 business customers1 create3, promote3, organize3, and run3 national4 and international4 trade shows1. Business customers contact3 NTSS for the services4 they need. Creating a trade show involves7 the design1 for the trade show, including8 professional services ranging from selection of a theme1 and a slogan1 to location1 and duration1. Promoting a trade show includes7 advertisement1 activities. Organizing a trade show includes8 all activities before the trade show except creation and promotion. For example, inviting4 speakers1, registering4 participants1 and exhibitors1. Running a trade show is the9 activity of on site registration1, setting up3 the booths1, conference rooms1 for seminars1, reception1, and distributing3 trade show materials. The NTSS creates3 an account1 for each customer to record3 service charges1, payments1 received, and maintain3 the account balances1.

A trade show can be regarded as an event. For example, the 2008 Consumer Electronics Show took place in the Las Vegas Convention Center during January 7-10, 2008 and the 2008 MacWorld Conference took place at the Moscone Center, 747 Howard Street, San Francisco, CA 94103 during January 14-18, 2008. An event has an6 organizer1, which can be9 a person1 or an organization1. For example, the CES was organized by the Consumer Electronics Association while the MacWorld was organized by Apple, Inc. An event has contact information1 and possibly a website1 that provides3 further information1 about the event. An event can belong8 to one or more5 predefined domains1. For example, the CES and MacWorld are belong to both Technology and Consumer Electronics. The list1 of predefined4 domains can change from time to time because new domains1 need be added3 and outdated domains need be removed3.

A trade show is attended3 by different types of participants1 including8 the event organization staff1, the invited and/or selected speakers1, exhibitors1, and observers1. Except the event organization staff and the event organizer1, all participants must register3 to attend3 a trade show event. The registration charges3 a fee, which is different for different trade show event1. The event organization staff creates3, prepares3 and runs3 the event. The invited speakers1 are famous figures1 in the domain who were invited to give a keynote address1 at the event. The selected speakers are invited to speak at the event based on the evaluation1 of their proposals1. The proposals are usually reviewed by3 a committee1 of reviewers1, who are experts1 in the domain and willing to help. The status1 of a2 proposal includes8 pending review1, accepted3, and rejected3. The exhibitors come to the trade show to exhibit their products or services. The exhibitors have to pay for4 the booths depending on the size4 of the booth, e.g., large, medium, or small4. Booths are requested3 and rented3 for the whole duration of the event. Finally, the observers1 come to visit3 the trade show for various purposes1.

Classification Based on Brainstorming Result

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| **Brainstorming List** | **Classification Result** | **Rule** |
| National Trade Show Services (NTSS)1 | (C)NTSS | 1(a) |
| helps3 | (AS) helps (business Customer) | 3 |
| customers1 | (C)Customers | 1(a) |
| create3 | (AS) create (trade show) | 3 |
| promote3 | (AS) promote (trade show) | 3 |
| organize3 | (AS) organize (trade show) | 3 |
| run3 | (AS) run ( trade show) | 3 |
| trade shows1 | (C)TradeShow | 1(a) |
| contact3 | (AS)contact(NTSS’s contact info) | 3 |
| services4 | (A) services(NTSS provide service) | 4 |
| involves7 | (AG)part-of(design,creating trade show) | 7 |
| design1 | (A) design(tradeshow) | 1(e) |
| theme1 | (A) theme | 1(e) |
| slogan1 | (A) slogan | 1(e) |
| location1 | (A) location | 1(e) |
| duration1 | (A) duration(tradeshow) | 1(e) |
| reviewed by3 | (AS) reviewed by (committee of reviewers) | 3 |
| reviewers1 | (C) Reviewers | 1(e) |
| experts1 | (A)experts | 1(e) |
| Proposals1 | (C)Proposals | 1(e) |
| rejected3 | (AS)rejected(proposal) | 3 |
| pending review1 | (A) review | 1(e) |
| approved3 | (AS)approved(proposal) | 3 |
| Pay for3 | (AS)pay for(the booths) | 3 |
| size4 | (A)large,medium or small | 4 |
| requested3 | (AS)requested(booths) | 3 |
| rented3 | (AS)rented(booths) | 3 |
| attended3 | (AS) attend (trade show) | 3 |
| Participants1 | (C)  Participants | 1(d) |
| Event organization staff 1 | (C) subclass of Participants | 1(d) |
| speakers1 | (C) subclass of Participants | 1(d) |
| exhibitors1 | (C) subclass of Participants | 1(d) |
| observers1 | (C) subclass of Participants | 1(d) |
| Registration | (C)Registration(to attend show) | 1(a) |
| register3 | (AS)register to attend | 3 |
| attend3 | (AS)attend | 3 |
| creates3 | (AS)create the event | 3 |
| prepares3 | (AS) prepare the event | 3 |
| runs3 | (AS) run the event | 3 |
| Famous figures1 | (A) attending the event | 1(e) |
| Keynote address1 | (V) | 1(e) |
| evaluations1 | (AS) evaluate proposals | 1(b) |
| registering4 | (AS) registering (participants and exhibitors) | 4 |
| is the9 | (I) registration and booth set up activity | 9 |
| Booth1 | (C) Booth for exhibitors | 1(a) |
| record3 | (AS) record service charges | 3 |
| service charges1 | (A) service charges(Customer) | 1(e) |
| Account1 | (C) NTSS creates account | 1(a) |
| payments 1 | (A) payments received(Customer) | 1(e) |
| account balances1 | 1. Account balance(Customer) | 1(e) |
| has an6 |  | 6(b) |
| organizer1 | (A) Organizer name | 1(e) |
| contact information1 | (A) Organizer’s contact | 1(e) |
| website1 | 1. Organizer’s website | 1(e) |
| can belong8 | (AS) | 8 |
| one or more5 | 1+  (AS)part-of(TradeShow, Domain) | 5 |
| Domain1 | (C) Domain(Trade show may belong to more domain) | 1(a) |
| list1 | 1. List of predifined domain | 1(e) |
| added4 | 1. Added (new domain to tradeshow) | 4 |
| removed4 | (A) removed (domain removed from trade show) | 4 |

Class Diagram

A close up of a map

Description automatically generated