

# **The National Trade Show Services Business**

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## **A Brief Project Description**

The National Trade Show Services (NTSS) is a service provider that helps business customers create, promote, organize, and run national and international trade shows. Business customers contact NTSS for the services they need. Creating a trade show involves the design for the trade show, including professional services ranging from selection of a theme and a slogan to location and duration. Promoting a trade show includes advertisement activities. Organizing a trade show includes all activities before the trade show except creation and promotion. For example, inviting speakers, registering participants and exhibitors. Running a trade show is the activity of on site registration, setting up the booths, conference rooms for seminars, reception, and distributing trade show materials. The NTSS creates an account for each customer to record service charges, payments received, and maintain the account balances.

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 an organizer, which can be a person or an organization. For example, the CES was organized by the Consumer Electronics Association while the MacWorld was organized by Apple, Inc. An event has contact information and possibly a website that provides further information about the event. An event can belong to one or more predefined domains. For example, the CES and MacWorld are belong to both Technology and Consumer Electronics. The list of predefined domains can change from time to time because new domains need be added and outdated domains need be removed.

A trade show is attended by different types of participants including the event organization staff, the invited and/or selected speakers, exhibitors, and observers. Except the event organization staff and the event organizer, all participants must register to attend a trade show event. The registration charges a fee, which is different for different trade show event. The event organization staff creates, prepares and runs the event. The invited speakers are famous figures in the domain who were invited to give a keynote address at the event. The selected speakers are invited to speak at the event based on the evaluation of their proposals. The proposals are usually reviewed by a committee of reviewers, who are experts in the domain and willing to help. The status of a proposal includes pending review, accepted, and rejected. The exhibitors come to the trade show to exhibit their products or services. The exhibitors have to pay for the booths depending on the size of the booth, e.g., large, medium, or small. Booths are requested and rented for the whole duration of the event. Finally, the observers come to visit the trade show for various purposes.

## **Functional Requirement**

1. The system must allow organizers to create and manage their respective accounts.
  - 1.1. The system must capture contact information of the organizer, including full name, organization, phone number, email address, and optionally a website linking to their event.
  - 1.2. The system must allow organizers to book a location for one or more days.
    - 1.2.1. Organizers must be able to choose from available time slots.
    - 1.2.2. The system must honor booked events and not allow other organizers to book a location/time that has been previously booked by another organizer.
  - 1.3. The system must require users to select a domain for their event.
    - 1.3.1. Organizers must only be able to select a domain from a predefined list.
    - 1.3.2. Administrators must be allowed to add, remove, and update entries in the domain list as they see fit.
  - 1.4. The system must require organizers to select a theme for their event from a predefined list.
    - 1.4.1. The system must allow the organizers to add, remove or update the predefined list of themes available.
  - 1.5. The system must maintain account balances, record services charges, and keep track of received payments for each account.
2. The system must allow registration for all participants (selected speakers, exhibitors, and observers) before attending the trade show except event organization staff and event organizer.
  - 2.1. The system must allow participant to enter as either speaker or exhibitor or observer for registration.
  - 2.2. The system must show all the Trade Show list that a user can register prior to their visit.
  - 2.3. The system must grab the attender's information like First/Last Name, email address, payment information etc before the participant finalize the Registration.
    - 2.3.1. The system must include some sort of process to validate the payment information provided by the participants.
  - 2.4. The system must allow participants to register for more than one event if they are interested.
    - 2.4.1. The system must notify the participant if the event they selected has a time collision with a previously registered event.
  - 2.5. During registration, exhibitors must be able to enter the size of the booth that they want during the exhibition.
    - 2.5.1. Registration fee must rise or fall based upon the size (small, medium or large) of the booth they select.
3. NTSS must have a separate account for consumers that keeps track of all the organizers to record service charges, payment received, and maintain the account balance.

4. The system must allow participants (selected speakers, exhibitors, and observers) to edit/manage their accounts.
  - 4.1. The participants must be able to edit their name, email, and payment Information.
  - 4.2. The participants must be able to cancel the registered date for an event.
  - 4.3. Exhibitors must be able to change the size of the booth that they were supposed to be used for exhibition.
  - 4.4. Prospective speakers must be able to register and submit their proposal for evaluation.
    - 4.4.1. The prospective speakers must be able to register their own account for the trade show.
    - 4.4.2. The prospective speakers must be able to submit their proposal for evaluation through their account.
    - 4.4.3. The evaluators must be able to access the proposal submitted by the prospective speaker.
    - 4.4.4. The prospective speakers must be notified about the status of their proposal including pending review, accepted, and rejected.
5. The system website must include a separate section where organizers will be able to add/update the schedule for their respective trade shows.
  - 5.1. The organizers must be able to add the location, day and time of the respective events.
    - 5.1.1. The organizers must be able to update any changes to the schedule.
      - 5.1.1.1. Notifications must be sent out to all the exhibitors, speakers and observers regarding any updates to the schedule.
  - 5.2. The account of the exhibitors must have all the information about the schedule i.e. date and location for their exhibition.
  - 5.3. The participants must have an option in the schedule section to add event to their account agenda.
    - 5.3.1. The participants must have an option to remove the event from their account.
  - 5.4. The participants must be able to search for an event by selecting specific location, date and period of time.
    - 5.4.1. The participants must be able to refine the search by specifying the domain and type of event they are interested in.
6. The system website must include a section for assisting participants.
  - 6.1. The website must include contact information of the organizer and NTSS in the front of the section.
  - 6.2. The website must include chat assistance in case of emergency assistance.
  - 6.3. The system website must include the online map directory for each trade show location.

# Domain Modeling

## Brainstorming Worksheet

The National Trade Show Services (NTSS)<sup>1</sup> is a<sup>9</sup> service provider that helps<sup>3</sup> business customers<sup>1</sup> create<sup>3</sup>, promote<sup>3</sup>, organize<sup>3</sup>, and run<sup>3</sup> national<sup>4</sup> and international<sup>4</sup> trade shows<sup>1</sup>. Business customers contact<sup>3</sup> NTSS for the services<sup>4</sup> they need. Creating a trade show involves<sup>7</sup> the design<sup>1</sup> for the trade show, including<sup>8</sup> professional services ranging from selection of a theme<sup>1</sup> and a slogan<sup>1</sup> to location<sup>1</sup> and duration<sup>1</sup>. Promoting a trade show includes<sup>7</sup> advertisement<sup>1</sup> activities. Organizing a trade show includes<sup>8</sup> all activities before the trade show except creation and promotion. For example, inviting<sup>4</sup> speakers<sup>1</sup>, registering<sup>4</sup> participants<sup>1</sup> and exhibitors<sup>1</sup>. Running a trade show is the<sup>9</sup> activity of on site registration<sup>1</sup>, setting up<sup>3</sup> the booths<sup>1</sup>, conference rooms<sup>1</sup> for seminars<sup>1</sup>, reception<sup>1</sup>, and distributing<sup>3</sup> trade show materials. The NTSS creates<sup>3</sup> an account<sup>1</sup> for each customer to record<sup>3</sup> service charges<sup>1</sup>, payments<sup>1</sup> received, and maintain<sup>3</sup> the account balances<sup>1</sup>.

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 an<sup>6</sup> organizer<sup>1</sup>, which can be<sup>9</sup> a person<sup>1</sup> or an organization<sup>1</sup>. For example, the CES was organized by the Consumer Electronics Association while the MacWorld was organized by Apple, Inc. An event has contact information<sup>1</sup> and possibly a website<sup>1</sup> that provides<sup>3</sup> further information<sup>1</sup> about the event. An event can belong<sup>8</sup> to one or more<sup>5</sup> predefined domains<sup>1</sup>. For example, the CES and MacWorld are belong to both Technology and Consumer Electronics. The list<sup>1</sup> of predefined<sup>4</sup> domains can change from time to time because new domains<sup>1</sup> need be added<sup>3</sup> and outdated domains need be removed<sup>3</sup>.

A trade show is attended<sup>3</sup> by different types of participants<sup>1</sup> including<sup>8</sup> the event organization staff<sup>1</sup>, the invited and/or selected speakers<sup>1</sup>, exhibitors<sup>1</sup>, and observers<sup>1</sup>. Except the event organization staff and the event organizer<sup>1</sup>, all participants must register<sup>3</sup> to attend<sup>3</sup> a trade show event. The registration charges<sup>3</sup> a fee, which is different for different trade show event<sup>1</sup>. The event organization staff creates<sup>3</sup>, prepares<sup>3</sup> and runs<sup>3</sup> the event. The invited speakers<sup>1</sup> are famous figures<sup>1</sup> in the domain who were invited to give a keynote address<sup>1</sup> at the event. The selected speakers are invited to speak at the event based on the evaluation<sup>1</sup> of their proposals<sup>1</sup>. The proposals are usually reviewed by<sup>3</sup> a committee<sup>1</sup> of reviewers<sup>1</sup>, who are experts<sup>1</sup> in the domain and willing to help. The status<sup>1</sup> of a<sup>2</sup> proposal includes<sup>8</sup> pending review<sup>1</sup>, accepted<sup>3</sup>, and rejected<sup>3</sup>. The exhibitors come to the trade show to exhibit their products or services. The exhibitors have to pay for<sup>4</sup> the booths depending on the size<sup>4</sup> of the booth, e.g., large, medium, or small<sup>4</sup>. Booths are requested<sup>3</sup> and rented<sup>3</sup> for the whole duration of the event. Finally, the observers<sup>1</sup> come to visit<sup>3</sup> the trade show for various purposes<sup>1</sup>.

## Classification Worksheet

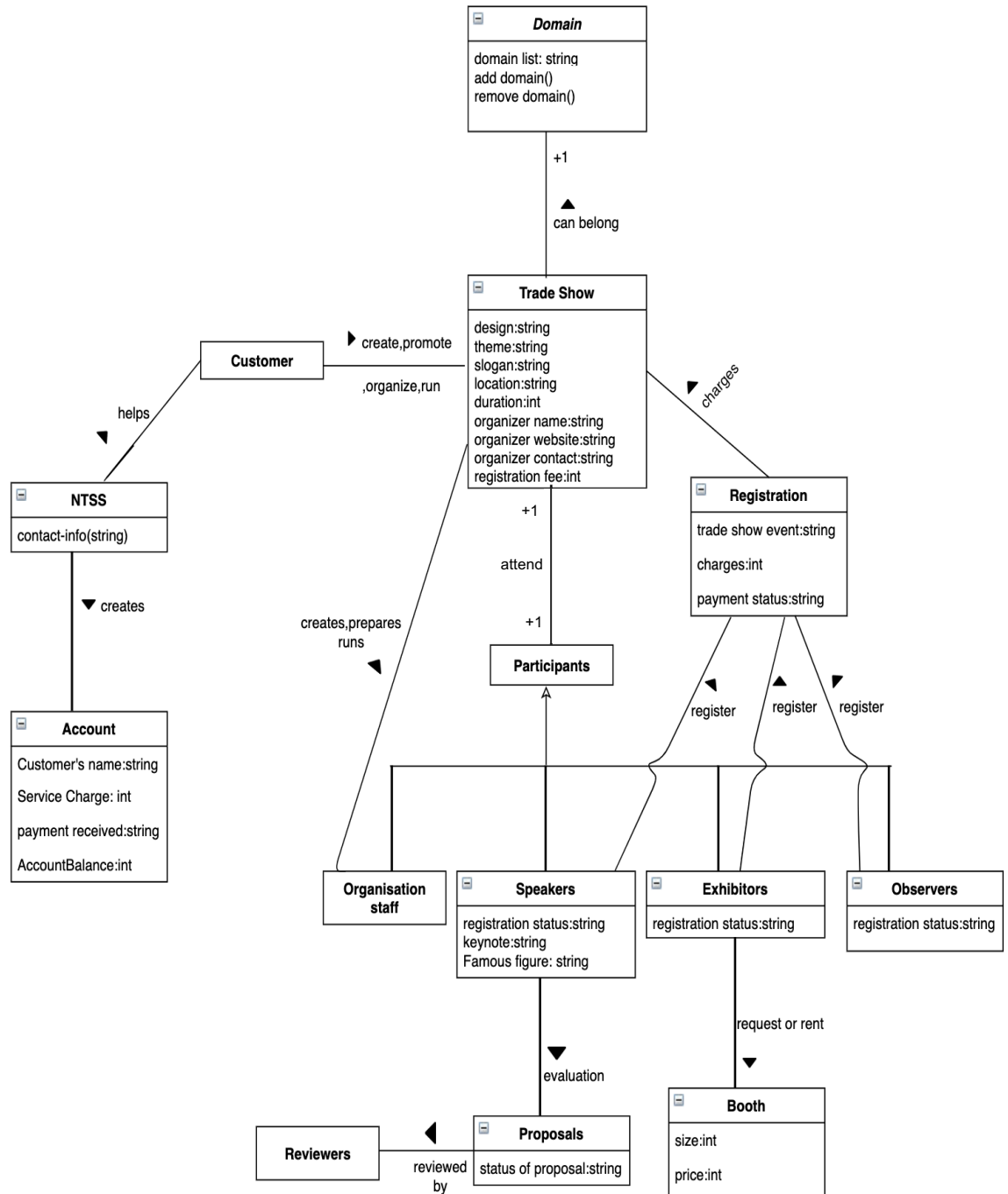
Brainstorming List	Classification Result	Rule
National Trade Show Services (NTSS) <sup>1</sup>	(C)NTSS	1(a)
helps <sup>3</sup>	(AS) helps (business Customer)	3
customers <sup>1</sup>	(C)Customers	1(a)
create <sup>3</sup>	(AS) create (trade show)	3
promote <sup>3</sup>	(AS) promote (trade show)	3
organize <sup>3</sup>	(AS) organize (trade show)	3
run <sup>3</sup>	(AS) run ( trade show)	3
trade shows <sup>1</sup>	(C)TradeShow	1(a)
contact <sup>3</sup>	(AS)contact(NTSS's contact info)	3
services <sup>4</sup>	(A) services(NTSS provide service)	4
involves <sup>7</sup>	(AG)part-of(design,creating trade show)	7
design <sup>1</sup>	(A) design(tradeshow)	1(e)
theme <sup>1</sup>	(A) theme	1(e)
slogan <sup>1</sup>	(A) slogan	1(e)
location <sup>1</sup>	(A) location	1(e)
duration <sup>1</sup>	(A) duration(tradeshow)	1(e)
reviewed by <sup>3</sup>	(AS) reviewed by (committee of reviewers)	3
reviewers <sup>1</sup>	(C) Reviewers	1(e)
experts <sup>1</sup>	(A)experts	1(e)
Proposals <sup>1</sup>	(C)Proposals	1(e)

rejected <sup>3</sup>	(AS)rejected(proposal)	3
pending review <sup>1</sup>	(A) review	1(e)
approved <sup>3</sup>	(AS)approved(proposal)	3
Pay for <sup>3</sup>	(AS)pay for(the booths)	3
size <sup>4</sup>	(A)large,medium or small	4
requested <sup>3</sup>	(AS)requested(booths)	3
rented <sup>3</sup>	(AS)rented(booths)	3
attended <sup>3</sup>	(AS) attend (trade show)	3
Participants <sup>1</sup>	(C) Participants	1(d)
Event organization staff <sup>1</sup>	(C) subclass of Participants	1(d)
speakers <sup>1</sup>	(C) subclass of Participants	1(d)
exhibitors <sup>1</sup>	(C) subclass of Participants	1(d)
observers <sup>1</sup>	(C) subclass of Participants	1(d)
Registration	(C)Registration(to attend show)	1(a)
register <sup>3</sup>	(AS)register to attend	3
attend <sup>3</sup>	(AS)attend	3
creates <sup>3</sup>	(AS)create the event	3
prepares <sup>3</sup>	(AS) prepare the event	3
runs <sup>3</sup>	(AS) run the event	3
Famous figures <sup>1</sup>	(A) attending the event	1(e)
Keynote address <sup>1</sup>	(V)	1(e)
evaluations <sup>1</sup>	(AS) evaluate proposals	1(b)
registering <sup>4</sup>	(AS) registering (participants and exhibitors)	4
is the <sup>9</sup>	(I) registration and booth set up activity	9

Booth <sup>1</sup>	(C) Booth for exhibitors	1(a)
record <sup>3</sup>	(AS) record service charges	3
service charges <sup>1</sup>	(A) service charges(Customer)	1(e)
Account <sup>1</sup>	(C) NTSS creates account	1(a)
payments <sup>1</sup>	(A) payments received(Customer)	1(e)
account balances <sup>1</sup>	(A) Account balance(Customer)	1(e)
has an <sup>6</sup>		6(b)
organizer <sup>1</sup>	(A) Organizer name	1(e)
contact information <sup>1</sup>	(A) Organizer's contact	1(e)
website <sup>1</sup>	(A) Organizer's website	1(e)
can belong <sup>8</sup>	(AS)	8
one or more <sup>5</sup>	1+ (AS)part-of(TradeShow, Domain)	5
Domain <sup>1</sup>	(C) Domain(Trade show may belong to more domain)	1(a)
list <sup>1</sup>	(A) List of predefined domain	1(e)
added <sup>4</sup>	(A) Added (new domain to tradeshow)	4
removed <sup>4</sup>	(A) removed (domain removed from trade show)	4



# A domain Model Class Diagram



# Use Case Modeling

## Use Case Brainstorming Sheet

### LABELS:

SYSTEM

ACTOR

USE CASE

1. The **system** must allow customers to **create accounts** and manage their respective accounts.
  - 1.1. The system must capture contact information of the organizer, including full name, organization, phone number, email address, and optionally a website linking to their Event.
  - 1.2. The **system** must allow organizers to **book a location** for one or more days.
    - 1.2.1. Organizers must be able to choose from available time slots.
    - 1.2.2. The system must honor booked events and not allow other organizers to book a location/time that has been previously booked by another organizer.
  - 1.3. The system must require users to select a domain for their event.
    - 1.3.1. Organizers must only be able to select a domain from a predefined list.
    - 1.3.2. Organizers must be allowed to add, remove, and **update** entries in the **domain** list as they see fit.
  - 1.4. The system must require organizers to select a theme for their event from a predefined list.
    - 1.4.1. The **system** must allow the organizers to add, remove or **update** the predefined list of **themes** available.
  - 1.5. The system must maintain account balances, record services charges, and keep track of received payments for each account.
2. The **system** must allow **registration** for all participants (selected speakers, exhibitors, and observers) before attending the trade show except event organization staff and event organizer.
  - 2.1. The system must allow participant to enter as either speaker or exhibitor or observer for registration.
  - 2.2. The system must show all the Trade Show list that a user can register prior to their visit.
  - 2.3. The system must grab the attender's information like First/Last Name, email address, payment information etc. before the participant finalize the registration.
    - 2.3.1. The system must include some sort of process to validate the payment information provided by the participants.

- 2.4. The system must allow participants to register for more than one event if they are interested.
  - 2.4.1. The system must notify the participant if the event they selected has a time collision with a previously registered event.
- 2.5. During registration, exhibitors must be able to **rent a booth** and enter the size of the booth that they want during the exhibition.
  - 2.5.1. Registration fee must rise, or fall based upon the size (small, medium or large) of the booth they select.
3. NTSS must have a separate account for consumers that keeps track of all the organizers to record service charges, payment received, and maintain the account balance.
4. The **system** must allow participants (selected speakers, exhibitors, and observers) to **edit/**manage their **accounts**.
  - 4.1. The participants must be able to edit their name, email, and payment Information.
  - 4.2. The participants must be able to **cancel** the **registered** date for an **event**.
  - 4.3. Exhibitors must be able to **change the size of the booth** that they were supposed to be used for exhibition.
  - 4.4. Prospective speakers must be able to register and **submit their proposal** for evaluation.
    - 4.4.1. The prospective speakers must be able to register their own account for the trade show.
    - 4.4.2. The prospective speakers must be able to submit their proposal for evaluation through their account.
    - 4.4.3. The evaluators must be able to **access the proposal** submitted by the prospective speaker.
    - 4.4.4. The prospective speakers must be notified about the status of their proposal including pending review, accepted, and rejected.
5. The **system website** must include a separate section where organizers will be able to add/**update the schedule** for their respective trade shows.
  - 5.1. The organizers must be able to add the location, day and time of the respective events.
    - 5.1.1. The organizers must be able to update any changes to the schedule.
      - 5.1.1.1. Notifications must be sent out to all the exhibitors, speakers and observers regarding any updates to the schedule.
  - 5.2. The account of the exhibitors must have all the information about the schedule i.e. date and location for their exhibition.
  - 5.3. The participants must have an option in the schedule section to **edit event** of their account agenda.

- 5.3.1. The participants must have an option in the schedule section to add event to their account agenda.
- 5.3.2. The participants must have an option to remove the event from their account.
- 5.4. The participants must be able to **search** for an **event** by selecting specific location, date and period of time.
  - 5.4.1. The participants must be able to refine the search by specifying the domain and type of event they are interested in.
- 6. The **system** must allow participants to access a section in the website to **request assistance**.
  - 6.1. The system website must include contact information of the organizer and NTSS in the front of the section.
  - 6.2. The system website must include chat assistance in case of emergency assistance.
  - 6.3. The system website must include the online map directory for each trade show location.

### Use-Case Derivation Worksheet

Verb-Noun Phrase	Is it a business process?	Does it begin with an actor?	Does it end with the actor?	Does it accomplish a business task for the actor?	Is it a use case?	Actor	Subsystem
Create Accounts	Y	Y	Y	Y	Y	Customers	NTSS
Book a Location	Y	Y	Y	Y	Y	Organizers	NTSS
Update domain	Y	Y	Y	Y	Y	Organizers	NTSS
Evaluate event proposal	Y	Y	Y	Y	Y	NTSS staff	NTSS
Edit Event	Y	Y	Y	Y	Y	Participant	NTSS
Search for Events	Y	Y	Y	Y	Y	Participant	NTSS
Request Assistance	Y	Y	Y	Y	Y	Participant	NTSS
Register for an event	Y	Y	Y	Y	Y	Participant	NTSS

Maintain account balance	Y	N	N	Y	N	NTSS System	NTSS
Edit Account	Y	Y	Y	Y	Y	Participants	NTSS
Cancel Registered event	Y	Y	Y	Y	Y	Participants	NTSS
Provide Assistance	N	N	N	N	N	NTSS System	NTSS
Update Theme	Y	Y	Y	Y	Y	Organizer	NTSS
Change size of booth	Y	Y	Y	Y	Y	Exhibitor	NTSS
Submit the proposal	Y	Y	Y	Y	Y	speakers	NTSS
Access proposal	Y	Y	Y	Y	Y	Evaluators	NTSS
Update schedule	Y	Y	Y	Y	Y	Organizer	NTSS
Submit Event Proposal	Y	Y	Y	Y	Y	Organizer	NTSS
Rent a booth	Y	Y	Y	Y	Y	Exhibitors	NTSS

## Abstract and high-level Use Cases:

### **Use Case 1:** *Create Accounts* (Actor: Customers, System: NTSS)

TUCBW the organizer selects a signup button on the create account page.

TUCEW the organizer sees an “Account created successfully” from the system.

### **Use Case 2:** *Book a Location* (Actor: Organizers, System: NTSS)

TUCBW the organizer clicks on the “Select a location” button on create an event page.

TUCEW the organizer receives confirmation about successfully booking the location that they want on a specific date.

### **Use Case 3:** *Update domain* (Actor: Organizers, System: NTSS)

TUCBW the Administrator clicks on the “Update Domain” button located on their profile page.

TUCEW the Administrator receives confirmation message “Domain Updated successfully”.

**Use Case 4:** *Update theme* (Actor: Organizer, System: NTSS)

TUCBW the organizer clicks on the “update theme” button located on their profile page.

TUCEW the organizer sees the “Theme Updated Successfully” message from the system.

**Use Case 5:** *Edit Event* (Actor: Participant, System: NTSS)

TUCBW the participant selects edit event button on the event homepage.

TUCEW the participant sees an “remove from my agenda” from the system if they added an event or “add to my agenda” from the system if they removed an event.

**Use Case 6:** *Search for Events* (Actor: Participant, System: NTSS)

TUCBW the participant clicks on the “search for events” button on the schedule page.

TUCEW the participant sees the information about the event they are searching for.

**Use Case 7:** *Request Assistance* (Actor: Participant, System: NTSS)

TUCBW the participant clicks on the “Request Assistance” button located on their profile page.

TUCEW the participant sees/hears the solution to their respective problem.

**Use Case 8:** *Register for an event* (Actor: Participant, System: NTSS)

TUCBW the participant clicks on the “Register” button located on the event homepage

TUCEW the participant receives confirmation message about successfully registering for a specific event.

**Use Case 9:** *edit Account* (Actor: Participants, System: NTSS)

TUCBW the participant clicks on the “edit Account” button located on the profile.

TUCEW the participant receives confirmation message saying, “All changes Saved”.

**Use Case 10:** *cancel Registered event* (Actor: Participants, System: NTSS)

TUCBW the participant opens “Modify Scheduled Event” from his/her registered event list.

TUCEW the participant receiving confirmation about his/her desired event removed from the registered list.

**Use Case 11:** *rent a booth* (Actor: Exhibitors, System: NTSS)

TUCBW the exhibitor clicks on “Rent a Booth” on event registration page.

TUCEW the exhibitor successfully gets the booth required for its exhibition.

**Use Case 12:** *Change size of the Booth* (Actor: Exhibitors, System: NTSS)

TUCBW the exhibitors clicks on “Change Booth Size” on list of registered event page.

TUCEW the exhibitor confirms new size of the booth.

**Use Case 13:** *Submit the Proposal* (Actor: Speakers, System: NTSS)

TUCBW the speaker clicks on the “Upload speaking proposals” option on registered event page.

TUCEW the speaker receives proposal submitted successfully message.

**Use Case 14:** *Access Proposal* (Actor: Evaluators, System: NTSS)

TUCBW the evaluator clicks on the “proposal” option from his/her homepage.

TUCEW the evaluator selects accept/reject the proposal.

**Use Case 15:** *update schedule* (Actor: Organizer, System: NTSS)

TUCBW the organizer clicks on “update schedule” button on the schedule homepage.

TUCEW the organizer sees the message saying the schedule is updated.

**Use Case 16:** *submit Event Proposal* (Actor: Organizer, System: NTSS)

TUCBW the organizer clicks on “Submit Proposal” button on the create an event page.

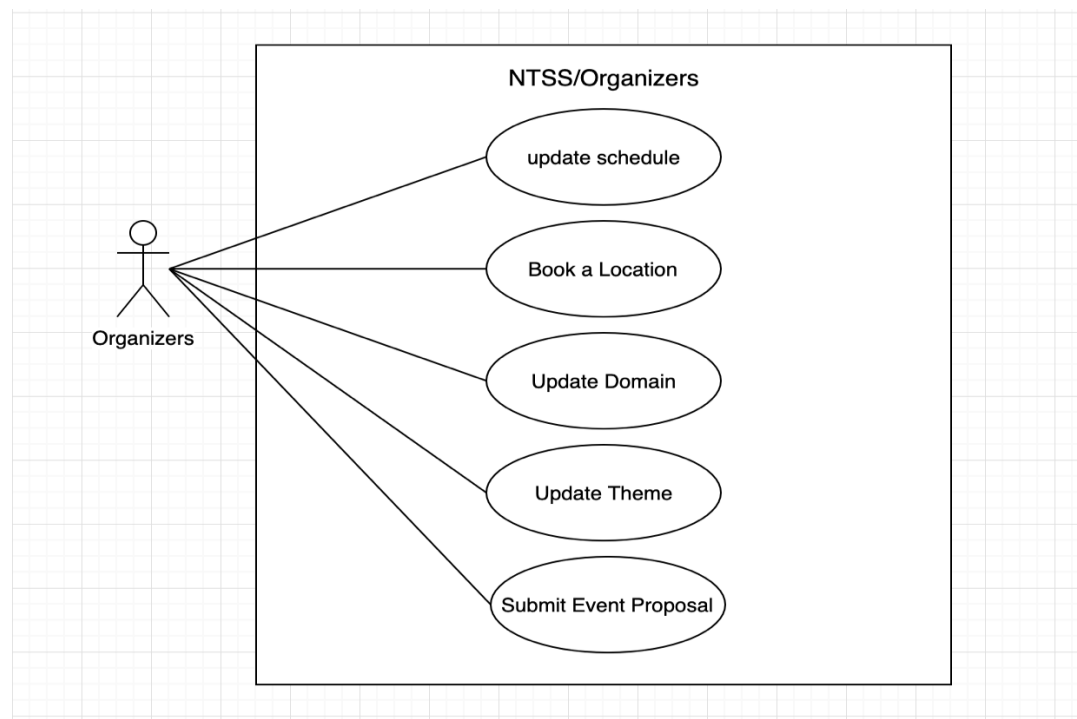
TUCEW the organizer sees the message saying proposal submitted successfully.

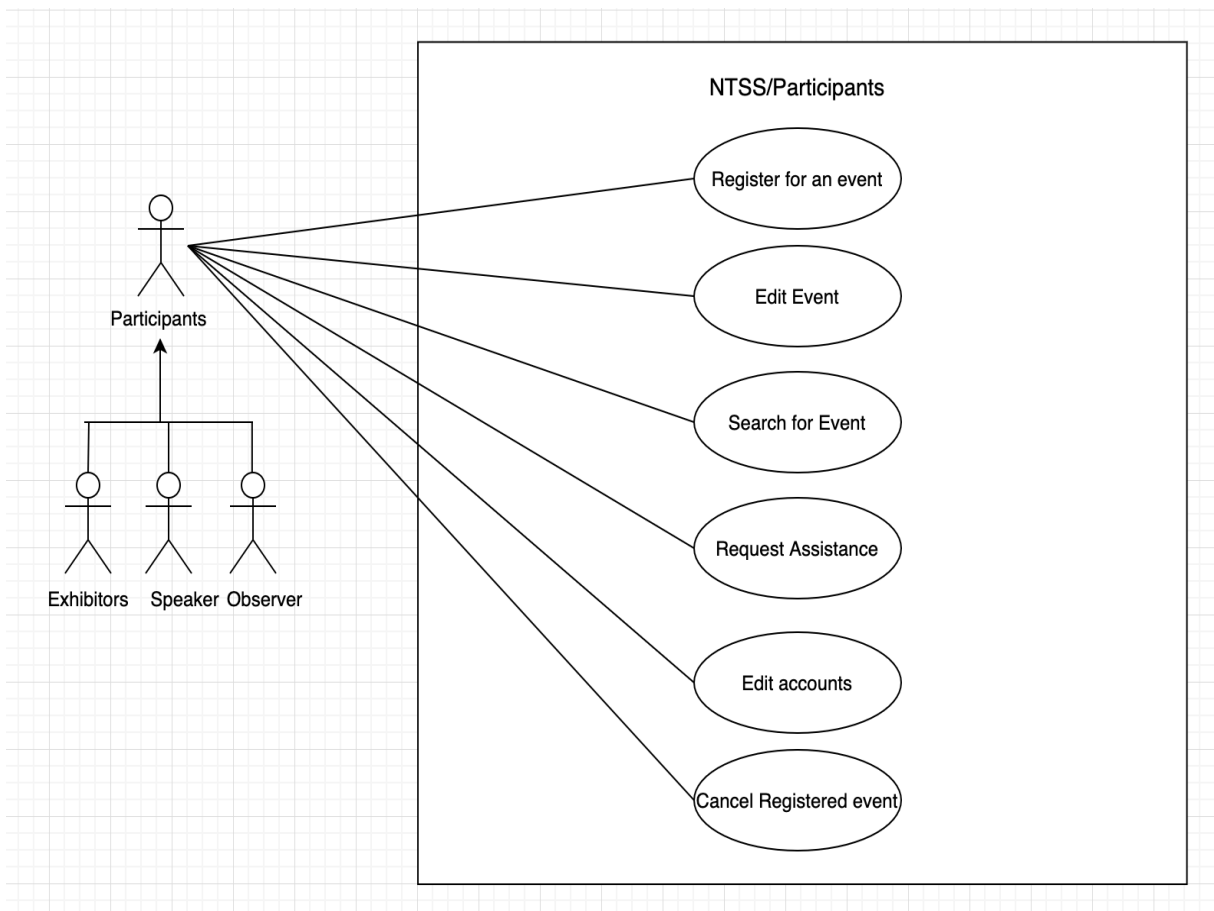
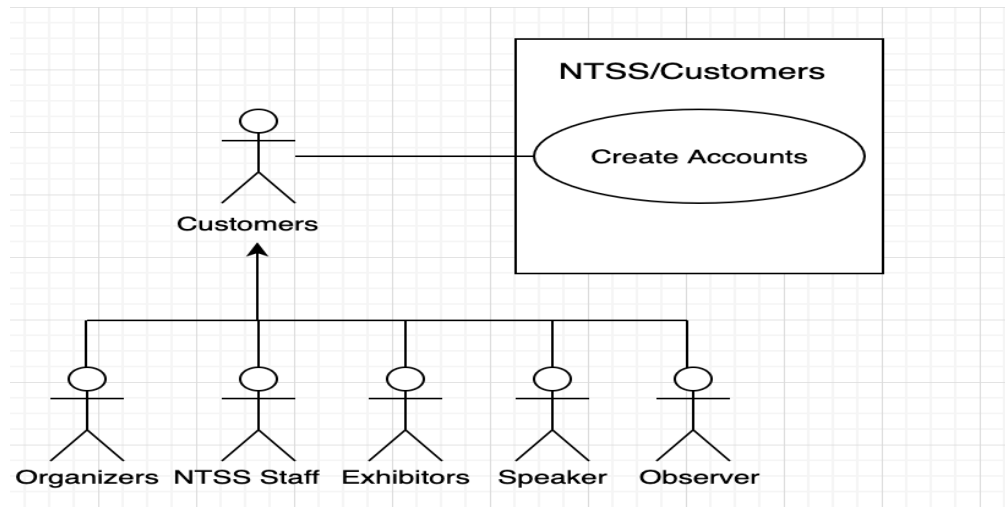
**Use Case 17:** *Evaluate Event Proposal* (Actor: NTSS Staff, System: NTSS)

TUCBW the NTSS staff clicks on “View Proposal” button on the home page.

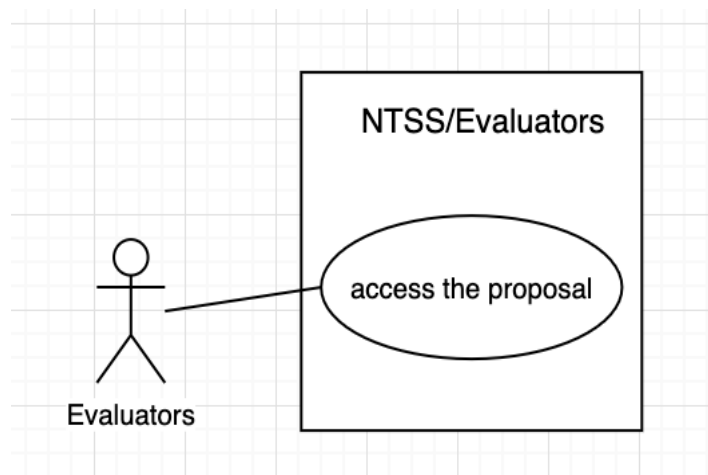
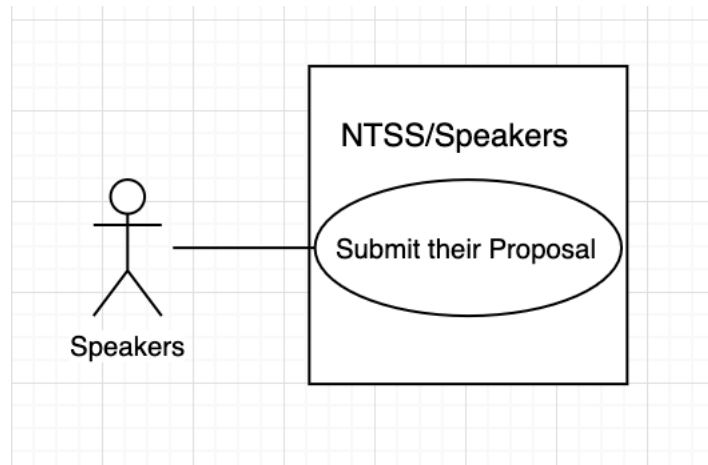
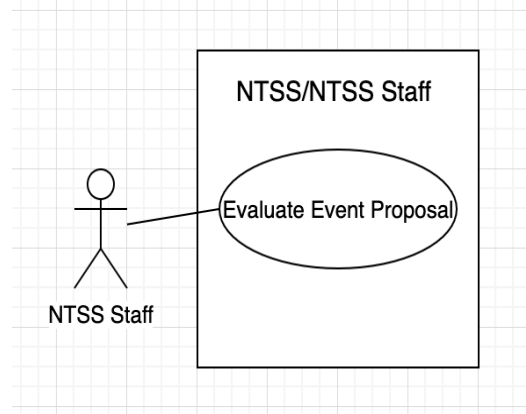
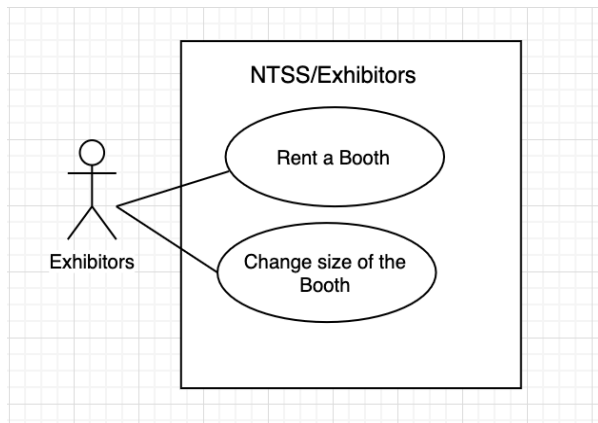
TUCEW the NTSS sees the message saying proposal evaluated successfully.

## Use Case Diagrams:









# Actor-System Interaction Modeling

## Expanded Use Cases

### UC1: Create Online Account

Actor: New User	System: NTSS
	0. System displays a login and signup page.
1. <b>TUCBW</b> the user selects a signup button on the create account page.	2. The system displays the fields for the user to enter credentials. i.e. name, dob, type of participant etc.
3. The user enters their credentials and clicks on create account.	4. The system checks submitted information, displays account created successfully message if no error found.
5. <b>TUCEW</b> the user sees “Account created successfully” message from the system.	

### UC2: Login

Actor: Account User	System: NTSS
	0. System displays a login and signup page.
1. <b>TUCBW</b> account user clicks “Login” button.	2. NTSS website displays the field to enter username and password.
3. Account user enters their username and password and click the submit button.	4. System checks the database for authentication, displays the home screen if no error is found.
5. <b>TUCEW</b> account user sees the home screen.	

### UC3: Submit Event Proposal

Actor: Event Organizer	System: NTSS
	0. System displays the homepage for Event Organizer.
1. <b>TUCBW</b> event organizer clicks on “submit event proposal” on their homepage.	2. NTSS displays the proposal submission page.
3. The event organizer fills out the information like design, theme, location, duration etc. required to create an event and click “Submit”.	4. System checks possible error like time and location collision, displays successful message if no error detected.
5. <b>TUCEW</b> the event organizer sees “Event Proposal submitted Successfully”.	

### UC4: Evaluate Event Proposal

Actor: NTSS Staff	System: NTSS
	0. System displays Home Page for NTSS staff.
1. <b>TUCBW</b> NTSS staff clicks on “Evaluate Proposals” button.	2. System displays list of proposals submitted by organizers.
3. NTSS staff selects one proposal from the list.	4. System opens up the selected proposal.
5. NTSS staff checks the proposal and clicks “next”.	6. System displays option for staff to select the status of the proposals.
7. NTSS staff selects either “Accept” or “Decline” and click submit.	8. System displays successfully evaluated message.
9. <b>TUCEW</b> NTSS staff sees “Proposal Evaluated Successfully” confirmation message.	

# Object-Interaction Modeling

## Scenario Description

### UC1: Create Online Account

3. New users will enter their credentials for a new account and click the create account button.
- 4.1. Signup GUI checks with the signup controller using the user's submitted information.
- 4.2. SignUp controller creates blank msg.
- 4.3. Signup controller sends user info to the DataBase Manager(DBMgr) to confirm required fields.
  - 4.3.1. **If** no error is found in input.
    - 4.3.1.1. SignUp Controller creates Account (a) object using user info and password return success confirmation status to signup controller.
    - 4.3.1.2. Signup Controller saves the Account object with DBMgr.
    - 4.3.1.3. Signup controller appends “account created successfully” message to msg.
  - 4.3.2. **else**,
    - 4.3.2.1. SignUp Controller appends “Failed to create” message to msg.
- 4.4. DBMgr returns confirmation msg to SignUpController.
- 4.5. SignUp Controller returns msg to Sign Up GUI.
- 4.6. Signup GUI displays a message to New user.

### UC2: Login

3. User enters the username and password in the LoginGUI and clicks on the submit button.
- 4.1. LoginGUI verifies with LoginController using username and password.
- 4.2. LoginController gets user from the database (DBMgr) using the username.
- 4.3. DBMgr returns user to the LoginController.
- 4.4. LoginController verifies with User using password.
- 4.5. User returns result to LoginController.
- 4.6. LoginController returns result to LoginGUI.
  - 4.6.1. **If** result is true
    - 4.6.1.1. LoginGUI displays home screen to account user.
  - 4.6.2. **If** result is false
    - 4.6.2.1. LoginGUI displays login error message.
- 4.7. User either sees home screen or error message.

### UC3: Submit Event Proposal

3. The event organizer fills out the information like design, theme, location, duration etc. required to create an event in SubmissionGUI and click “Submit”.
- 4.1. SubmissionGUI checks with SubmissionController using information provided by event organizer.
- 4.2. The SubmissionController creates a blank msg.
- 4.3. Submission controller sends the user entered information to Database Manager(DBMgr) to check for similar events for collision.
- 4.4. DBMgr returns query of similar events(based on date) to the SubmissionController
- 4.5. If event at same time or location exists ( event1.time == event2.time or event1.location == event2.location)
  - 4.5.1 the SubmissionController appends “event creation unsuccessful” to msg.
- 4.6. else,
  - 3.6.1 the SubmissionController appends “event creation successful” to msg.
- 4.7. The submission controller returns a msg to SubmissionGUI.
- 4.8. Submission GUI displays a msg to the event organizer.

### UC4: Evaluate Event Proposal

7. NTSS staff selects either “Accept” or “Decline” on EvaluationGUI and click submit.
- 8.1. EvaluationGUI checks with the EvaluationController using status info.
- 8.2. EvaluationController creates blank msg.
- 8.3. EvaluationController send the changes information to the database manager(DBMgr).
- 8.4. DBMgr returns event to EvaluationController.
- 8.5. EvaluationController updates the status of the event.
- 8.6. Event Controller appends “Event Successfully evaluated” to msg.
- 8.7. EvaluationController returns msg to EvaluationGUI.
- 8.8. EvaluationGUI displays msg to the NTSS staff.

## Scenario Table

### UC1: Create Online Account

#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
3.	New User	enter	credentials	Signup GUI

4.1	Signup GUI	checks with	User's submitted information	Signup controller
4.2.	Signup controller	creates		msg
4.3.	Signup controller	sends	user info	DBMgr
4.3.1	If no error is found			
4.3.1.1.	Signup controller	creates	using user info and password	Account
4.3.1.2.	Signup controller	saves	Account	DBMgr
4.3.1.3.	Signup controller	appends	"account created Successfully"	msg
4.3.2.	else,			
4.3.2.1.	Signup controller	appends	"Failed to Create"	msg
4.4.	DBMgr	returns	confirmation msg	signup controller
4.5.	Signup controller	returns	message	Signup GUI
4.6.	Signup GUI	displays	msg	New User

## UC2: Login

#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
3.	User	enters	user's username and password	LoginGUI
4.1	LoginGUI	verifies	Using username & password	LoginController.
4.2	LoginController	Get user	Using username	DBMgr
4.3	DBMgr	returns	User	LoginController
4.4	LoginController	verifies	Using password	User
4.5	User	returns	result	LoginController
4.6.	LoginController	returns	result	LoginGUI
4.6.1.	If result is true,			
4.6.1.1.	LoginGUI	Displays Homescreen		User
4.6.2.	If result is False,			
4.6.2.1.	LoginGUI	Displays	Error message	User

### UC3: Submit Event Proposal

#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
3	Event Organizer	enters	Info like time, location etc.	SubmissionGUI
4.1	SubmissionGUI	Checks with	Using info	SubmissionController
4.2.	SubmissionController	creates		msg
4.3	SubmissionController	sends	User entered info	DBMgr
4.4	DBMgr	returns	query of similar events	SubmissionController
4.5	If event at same time or location exists (event1.time == event2.time or event1.location == event2.time)			
4.5.1	SubmissionController	appends	"event creation unsuccessful"	msg
4.6	else,			
4.6.1	SubmissionController	appends	"event creation successful"	msg
4.7	SubmissionController	returns	msg	SubmissionGUI.
4.8	SubmissionGUI	displays	msg	event organizer

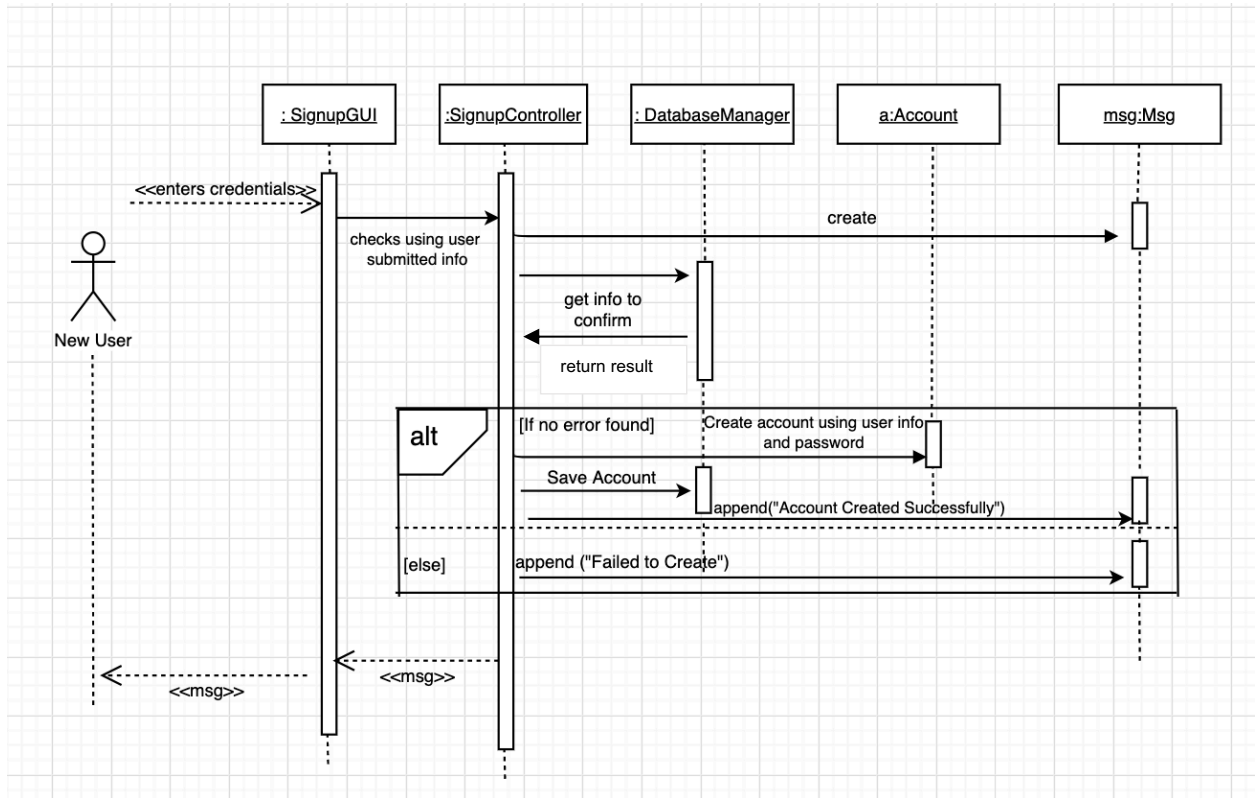


**UC4: Evaluate Event Proposal**

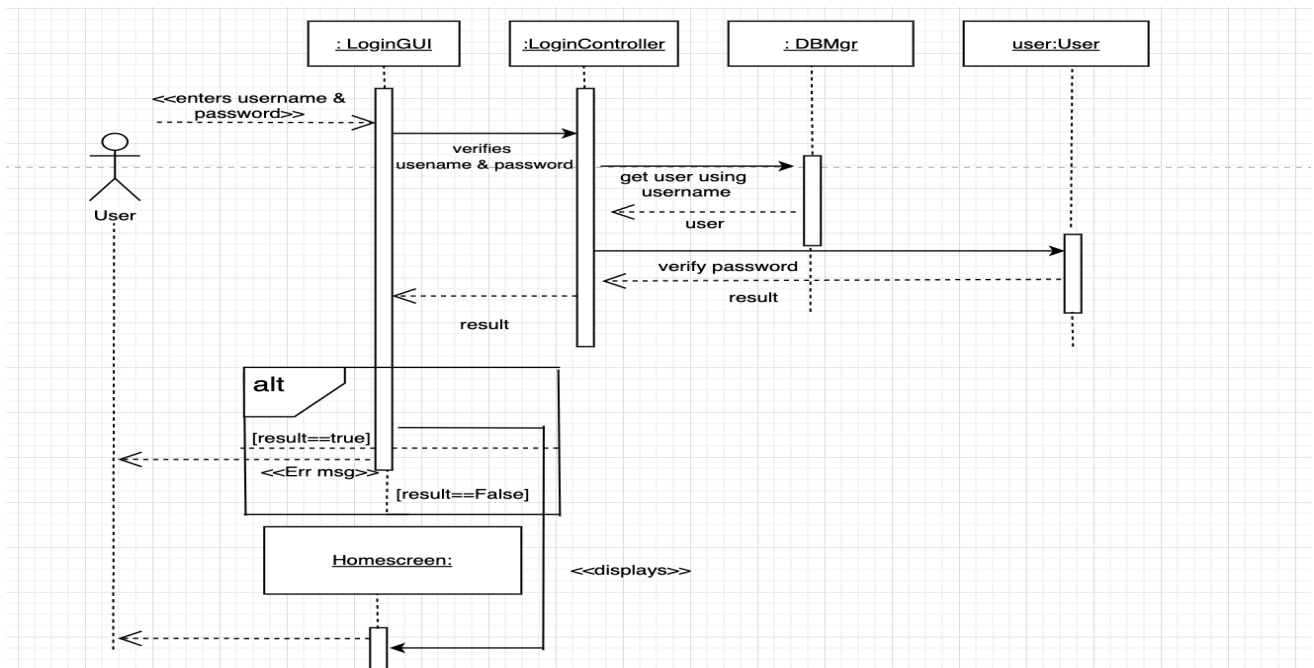
#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
7.	NTSS staff	selects	"Accept" or "Decline"	EvaluationGUI
8.1.	EvaluationGUI	checks with	Status info	EvaluationController
8.2.	EvaluationController	creates		msg
8.3.	EvaluationController	sends	Changes information	DBMgr
8.4.	DBMgr	returns	event	EvaluationController
8.5.	EvaluationController	updates	status	event
8.6.	EvaluationController	appends	"Event Created Successfully"	msg
8.7.	EvaluationController	returns	msg	EvaluationGUI
8.8.	EvaluationGUI	displays	msg	NTSS Staff

# Informal Sequence Diagram

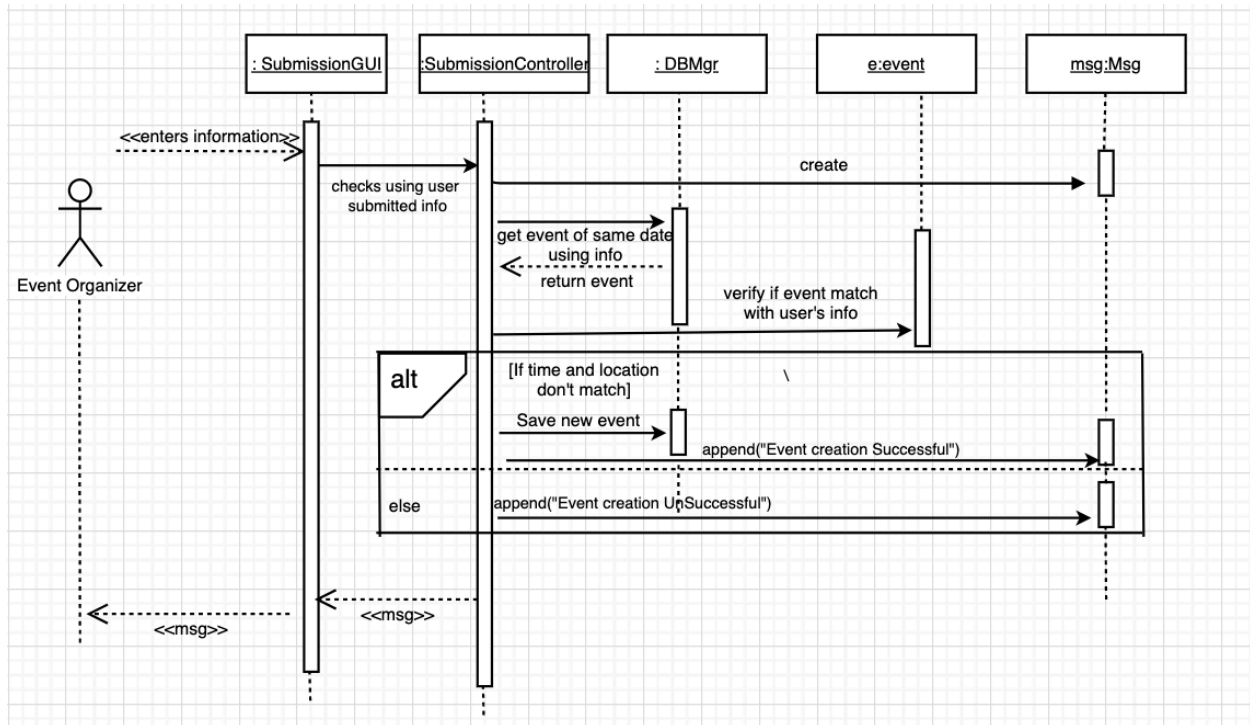
## UC1: Create Online Account



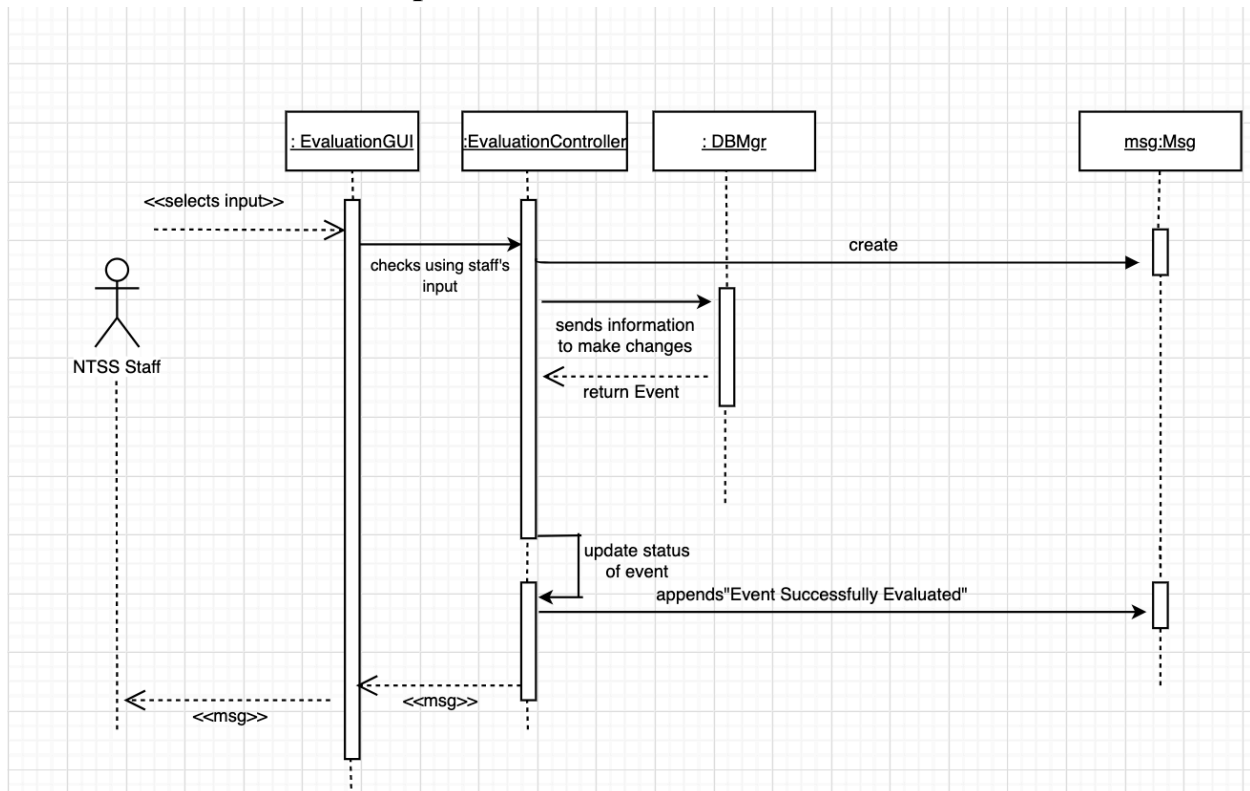
## UC2: Login



### UC3: Submit Event Proposal

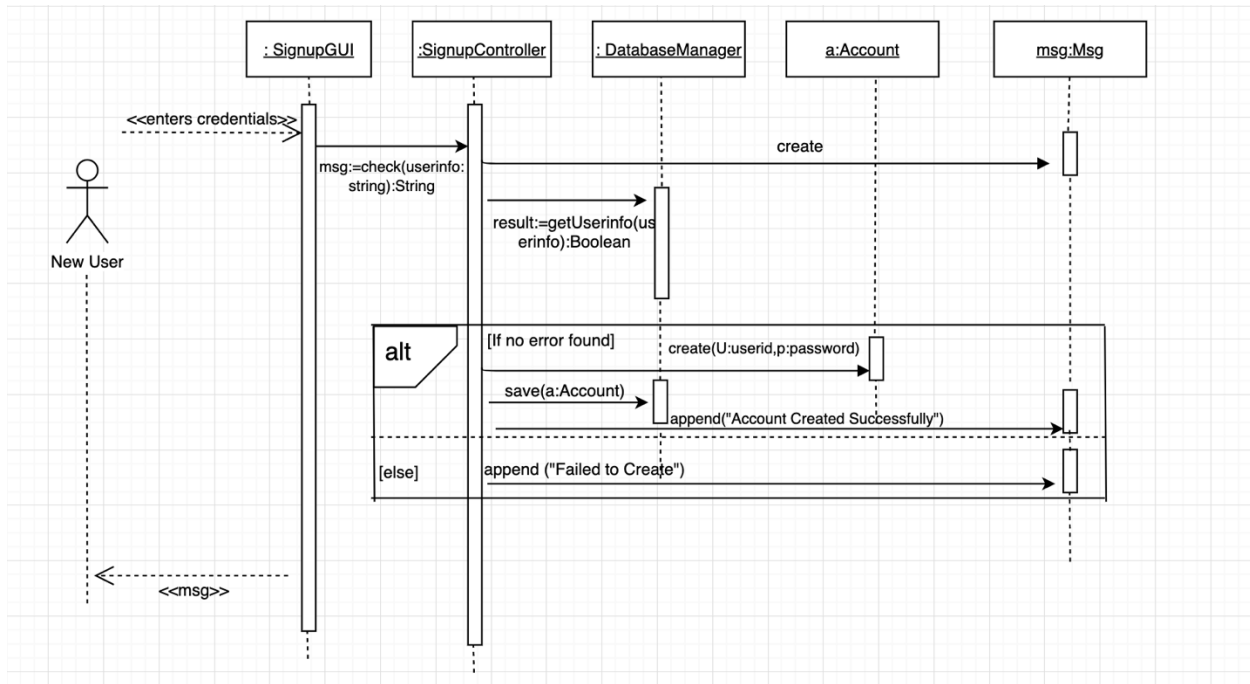


### UC4: Evaluate Event Proposal

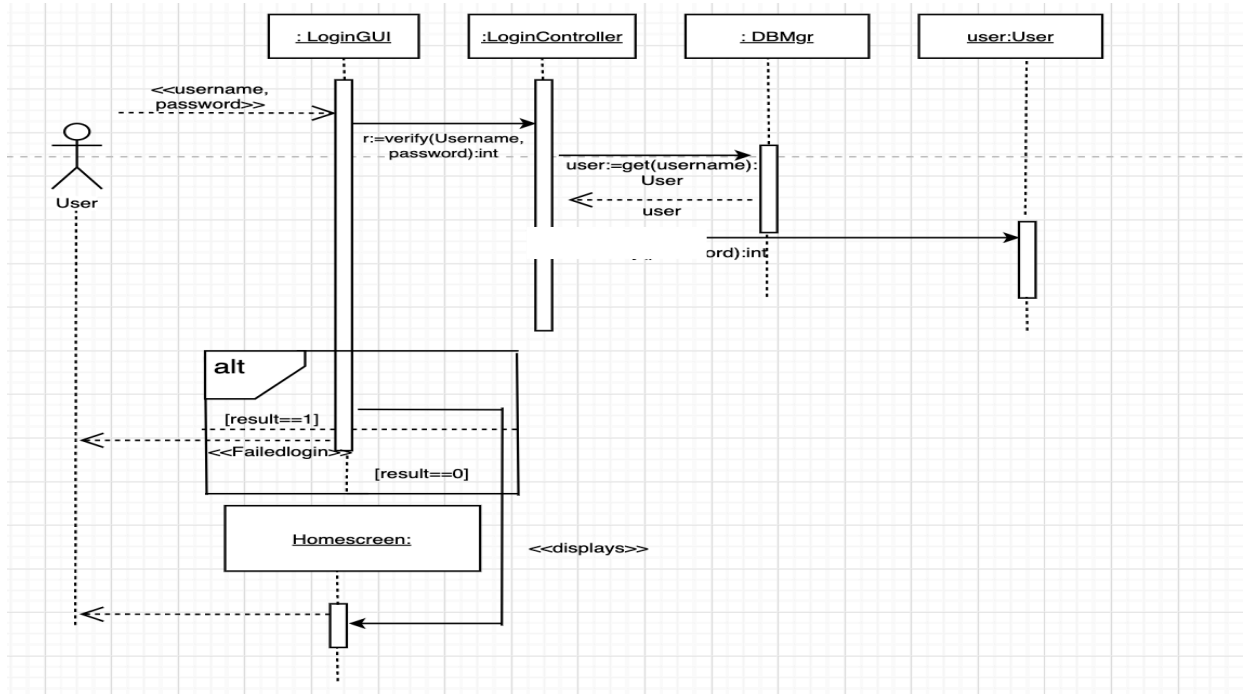


# Design Sequence Diagram

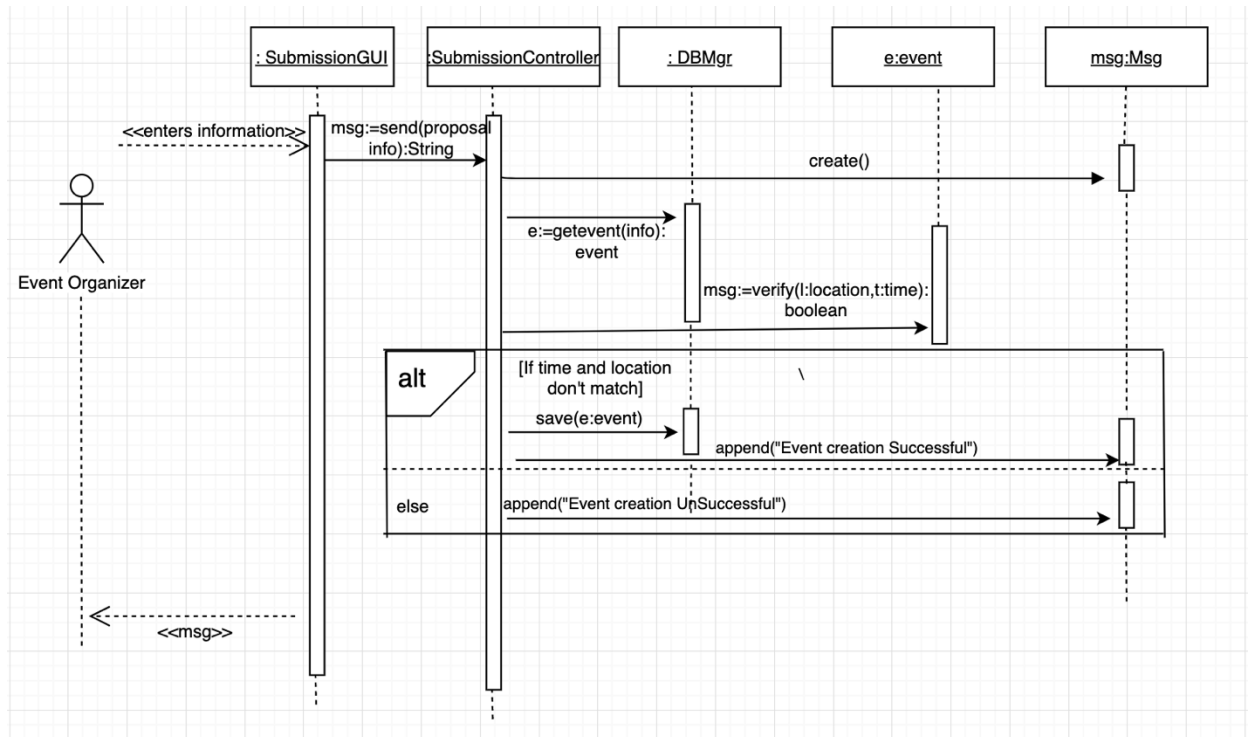
## UC1: Create Online Account



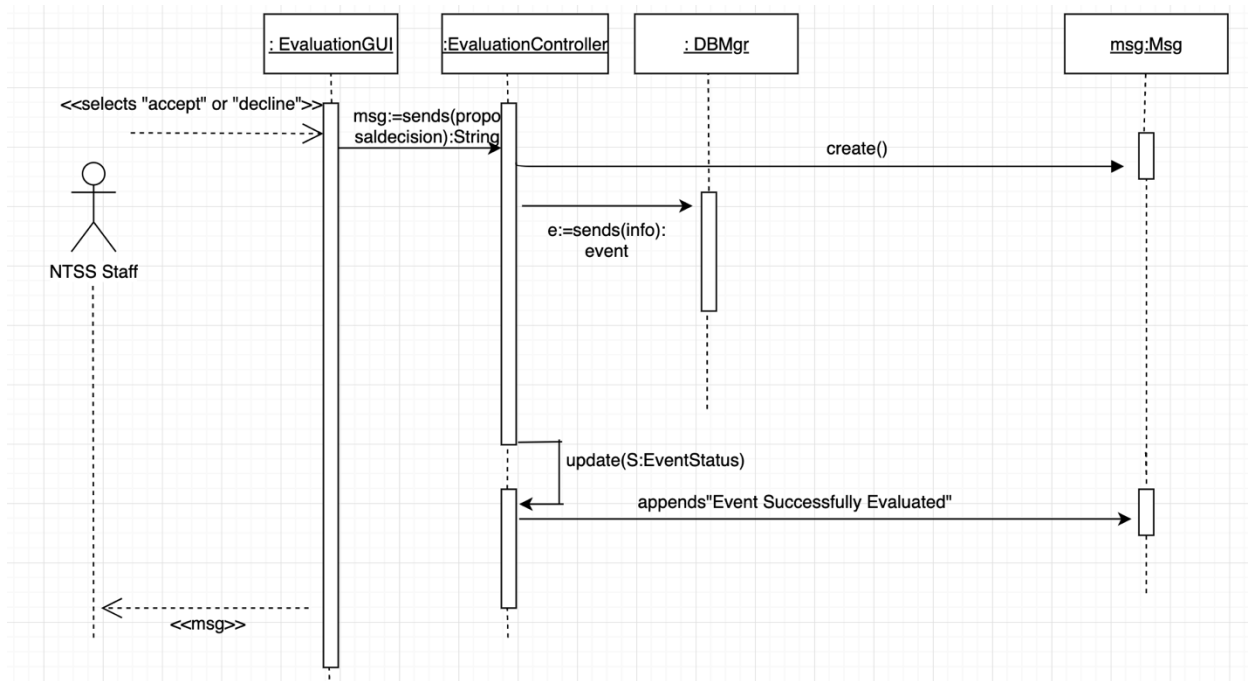
## UC 2. Login



## UC3: Submit Event Proposal



## UC4: Evaluate Event Proposal



# Design Class Diagram (DCD)

