Project:	The National Trade Show Services (NTSS)		
Team No.:	Team 7[Saroj Lamichhane, Indra Bhurtel, Roshan KC, Roshan Shrestha, Devi Prasad Tripathy]		
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Contributors:

[Indra Bhurtel, Roshan Kc,
Saroj Lamichhane,
Roshan Shrestha,
Devi Prasad Tripathy]

Revision History

Version number	***Date***	***Originator***	***Reason for change***	***High level description of changes***
1.0	01/25/2019	Devi Prasad Tripathy, Roshan Shrestha, Saroj Lamichhane,Roshan KC, Indra Bhurtel	Initial draft	Section 1, 2, 3, 4, 5 added (initial draft)
1.1	03/07/2019		Revision	
1.2				
1.3				

1. Project requirements specification

1. Introduction and Project Overview

The aim of this document is to gather and analyze and give an in-depth insight of the complete The National Trade Show Services software system by defining the problem statement in detail. Nevertheless, it also concentrates on the capabilities required by stakeholders and their needs while defining high-level product features. The detailed requirements of The National Trade Show Services software system are provided in this document.

1.1 PURPOSE

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers. Also, we shall predict and sort out how we hope this product will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops. In short, the purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle (SDLC) processes.

1.2 SCOPE

1.2.1 Product Description

Primarily, the scope pertains to The National Trade Show Services (NTSS) services to help business customers create, promote, organize, and run national and international trade shows. The application focuses to bring company’s core principles to the hands of every interested business customers, the application will allow NTSS to reflect their services and process on a widely accessible platform.

1.2.2 Product Functions

With the product aimed to make NTSS services accessible via Web. The product must allow business customers to create their trade show account where the customer can select their trade show design from pre-determined designs or they can submit proposal for custom one, they can choose their slogan, locations from curated list and duration of their show. The product must allow customers to promote their trade show by allowing the customer to choose form of advertisement either physical or digital and further the application should also request information for target audience, age group etc. to better target ads. The product will also have option for the customer to invite various well known speakers, search their profile and access their short Bio. The product should give real time updates regarding locations, setup progress etc. Lastly the product will allow NTSS to keep track for their customers, their

requirements, and services they are using. The product will auto update the charges and maintain account balances.

2. User Stories

1. As a business user, I need a website so that I could navigate and look for the information.
2. As a business user, I need to create an account so that mine service charges, payment received could be recorded along with maintaining the account balances.
3. As a business user, I need to know the price of my booth according to the size.
4. As a business user, I want to access the system to change the list of predefined domains.
5. As a user, I need a login page so that I could log into my account.
6. As a user, I need a profile page, so that I could edit my account related information such as name, email, phone number, and others.
7. As a user, I need a notification popup in Notifications button, so that I could know the happenings in the Trade show event.
8. As a participant, I need to register so that I can attend the trade show event.
9. As a participant, I need a confirmation page emailed to me after I register to the event so that I can be assured that I have been registered.
10. As a participant, I need a payment receipt page so that I can print the receipt if I want.
11. As a participant, I need a secure fund transfer from my credit/debit card so that there would be no any fraud involved with the transaction.
12. As an owner, I want my website to be free from the bug.
13. As an owner, I need an inbox setup so that I could know the number of applications that have been submitted.
14. As an owner, I need the report of all the transactions of the users and the participant.
15. As an owner, I want to protect the system from unauthorized access.
16. As an owner, I need the information about all the booths, like how many booths do we have, how many are already rented and how many are remaining.
17. As an exhibitor, I need to know the price of the booth depending on the size of the of the booth.

4.1 FUNCTIONAL REQUIREMENTS

Introduction –

This subsection contains the requirements for The National Trade Show Services (NTSS). These requirements are organized by the feature priority. Features were derived from use case diagrams to best capture the functional requirements of the system. All these functional requirements can be traced using traceability matrix.

R1 The system shall allow a potential user to create an online account identified by a valid email address.

- R1.1 The system shall require the user to specify the account type (event organizer, exhibitor, speaker, or observer). Different types of account shall have different privileges.
- R1.2 The system shall send a temporary password to the email address. The temporary password must comply to commonly adopted password security rules.
- R1.3 The system shall require the user to change the temporary password at the first login. The new password must comply to commonly adopted password security rules.

R2 The system shall allow an event organizer to submit an event proposal using an event proposal form with fields that describe the event.

- R2.1 Upon submission, the system shall generate a payment slip to be sent by the event organizer along with the payment to NTSS.
- R2.2 Upon reception of the payment for an event proposal,
  - R2.2.1 the system shall change the status of the event proposal to “Pending Re- view” from “Submitted,”
  - R2.2.2 the system shall email notify the event organizer that the payment has been received and the proposal is pending review.

R3 The system shall allow an event organizer to cancel an event with a 15% cancellation charge.

R4 The system shall allow an event organizer to edit a “Submitted” or “Pending Review” proposal without charge.

R5 The system shall allow an event organizer or NTSS staff to view an event proposal.

R6 The system shall allow an NTSS staff to evaluate an event proposal and enter feedback and an acceptance decision of either “Accepted” or “Rejected.” If “Rejected,” then the staff must also provide feedback explaining why the proposal is rejected.

R7 The system shall allow an exhibitor to submit a booth lease request.

- R7.1 The system shall display a floor plan with available booths, their sizes and leasing prices. The booth sizes are large, medium, and small, each of which is specified by

width and length.

R7.2 The system shall allow the exhibitor to select one or more available booths to be leased.

R7.3 The system shall generate a summary and total payment slip so that the exhibitor can print and send along with the payment to NTSS.

R7.4 When the payment is received, the system shall change the status of the request to pending review and notify the exhibitor of the status change.

R8 The system shall allow an exhibitor to withdraw a booth lease request with a 10% cancellation charge.

R9 The system shall allow an exhibitor or NTSS staff to view a booth lease request.

R10 The system shall allow an NTSS staff to evaluate a booth lease request.

R10.1 The system shall allow an NTSS staff to enter "Accepted" or "Rejected" decision.

R10.2 If the decision is Rejected, then the system shall require the NTSS staff to enter feedback explaining why the lease request was rejected.

R10.3 The system shall change the status of the request accordingly and notify the exhibitor of the change in request status.

R10.4 The system shall change the status of a booth to "unavailable" once it is leased out.

R11 The system shall allow a potential participant to register for an event.

R11.1 The system shall allow the participant to select from a list of event of her/his interest.

R11.2 The system shall allow a participant to register for one or more events.

R11.3 The system shall generate a payment slip showing a summary and the total payment.

R11.4 The system shall allow the participant to print the payment slip to be sent together with the payment.

R11.5 Once the payment is received, the system shall change the participants' registrations to "Paid" and notify the registering participant of this change.

R12 The system shall allow a registering participant to cancel a registration without charge one week before the event and with a 10% cancellation charge afterwards.

R13 The system shall allow an NTSS staff to specify a floor plan with predefined sizes.

R14 The system shall allow payment by credit card, cashier check, personal check, money order, or PayPal.

5.1. ASSUMPTIONS

The following is a list of assumptions:

1. The client should be prepared for the event with all the booklets, service information or respective representative to showcase during the trade show.
2. The client is expected to be updated of their NTSS account where they can view their charges, payment methods and event details.
3. The client should be transparent about their products or services that they are showcasing in the trade show to organize and manage the event in respective genre.
4. The client should request and rent the booth for the whole duration of the event.

5.2. CONSTRAINTS

The following is a list of constraints:

1. Last minute change of event location during to sever weather or other conditions could be a possibility.
2. The number of people who attend the show is never the same, so the advertising materials such as booklets could run out or be unused.

2. Brainstorming Sheet

The National Trade Show Services Business

Description David Kung, The University of Texas at Arlington

September 27, 2011

The National Trade Show Services (NTSS)/1 is a/9 service provider that helps business customers create/3, promote/3, organize/3, and run/3 national/4 and international/4 trade shows. Business customers contact NTSS for the services they need. (Creating)/3 a trade show involves the design for the trade show, including/8 professional services ranging from selection of a theme and a slogan to location and duration. Promoting a trade show/1e includes advertisement activities. Organizing a trade show 1/e includes all activities before the trade show except creation and promotion. For example, inviting speakers, registering participants and exhibitors. Running a trade show 1/e 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/1 received, and maintain the account balances/1.

(A trade show can be regarded as an event)/9. 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)/6. The list of predefined domains can change from time to time because new domains need be added and outdated domains need be removed.

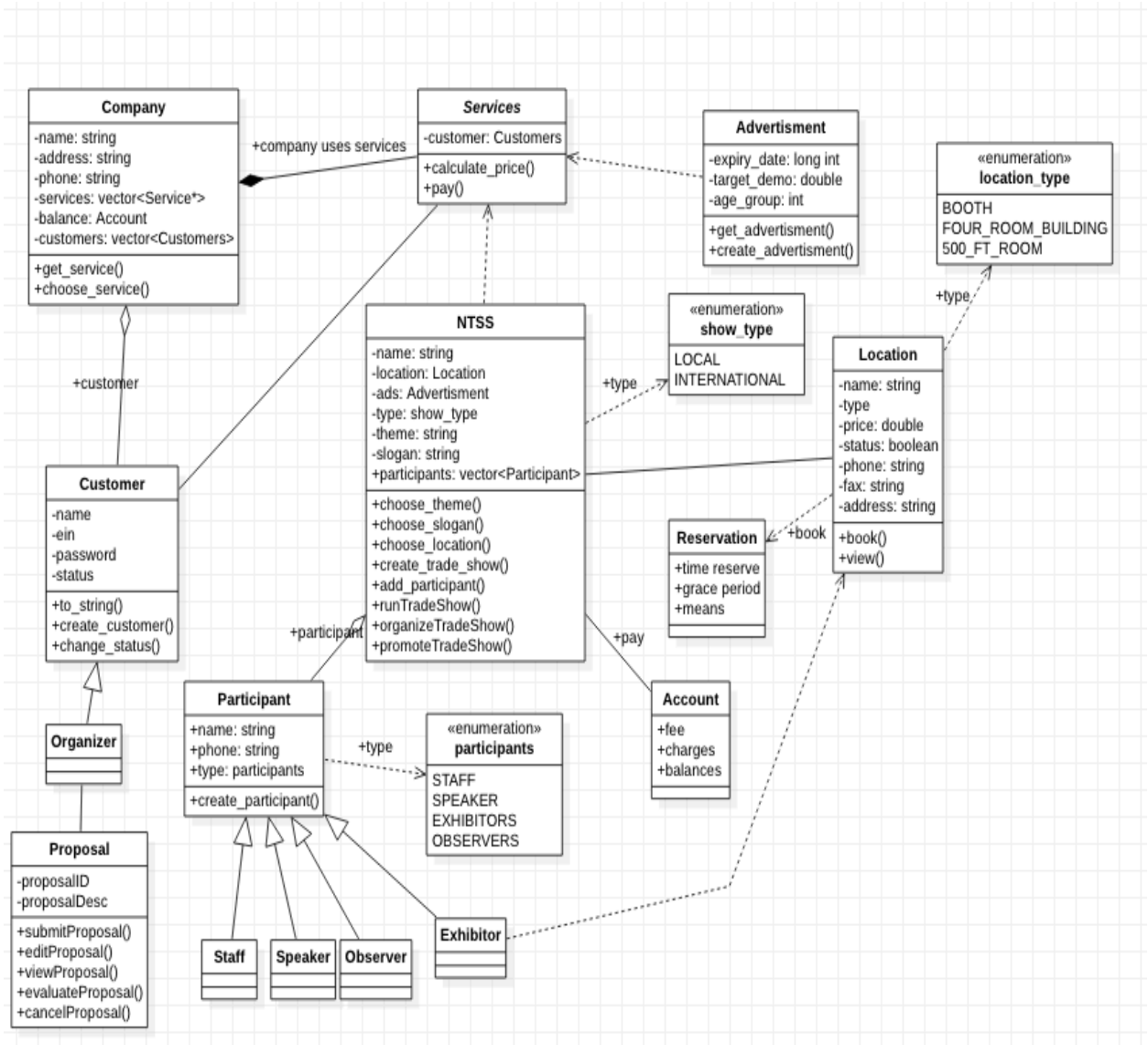
A trade show is attended by different types of participants including the event organization staff, the invited and/or selected speakers, exhibitors, and observers. Except the event organization staff and the event organizer, all participants must (register)/3 to attend a trade show event. The registration charges a fee/3, which is different for different trade show event. The event organization staff creates, prepares and runs the event. (The invited speakers are famous figures)/9 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)/9 in the domain and willing to help. The (status of a proposal)/2 includes pending review, accepted, and rejected. The exhibitors come to the trade show to exhibit their products or services. (The exhibitors)/1 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)/2. Finally, the observers come to visit the trade show for various purposes.

3. Classification sheets

Brainstorming List	Classification Result	Rule
NTSS	NTSS (C)	1(a)
Create	Create (A)	3
User Account	User Account (A)	1(d)
Promote	Promote (V)	3
Advertisements	Advertisements (A)	1(e)
Organize	Organize (V)	3
Invite Speakers	Invite Speakers (A)	2(b)
View Proposals	View (A)	4
Proposal Status	Status: ***Boolean***	4
Trade Show	Trade Show (C)	1(a)
Theme	Theme (A)	1(e)
Slogan	Slogan (A)	1(e)
Location	Location (A)	1(a)
Duration	Duration (A)	2(b)
National	National: ***Boolean***	4
International	International: ***Boolean***	4
Participants	Participants (C)	1(a)
Organizer	Organizer(A)	1(e)
Register	Register (A)	1(e)
Staff	Staff (A)	1(a)
Speakers	Speakers (A)	1(e)
Observers	Observers(A)	1(e)
		1(e)

Exhibitors	Exhibitors(A)	1(a)
Booths	Booths (C)	2(b)
Size	Size (A)	1(e)
Placement	Placement(A)	1(e)
Accounts	Accounts (C)	1(e)
Fees	Fees (A)	1(e)
Charges	Charges (A)	1(e)
Balances	Balances (A)	

4. Domain model class diagram



5. High Level Use Case Sheet and Abstract Use Case Sheet

HighLevel Use Case Sheet

Req.No	VERB/NOUNPHRASE	BUSINESS PROCESS?	BEGIN W/ACTOR?	D W/ACTOR	PLISH SOMETI	USE CASE?	ACTORS
R1	Allow a potential user	N	N	N	N	N	System
R1	Create an online account	Y	Y	Y	Y	Y	User
R1.1	Specify account type	N	N	N	N	N	Event organizer, exhiitor, speaker or observer.
R1.2	Send temporary password	N	N	N	Y	N	System
R1.3	Change temporary password	N	Y	Y	Y	N	User
R2	Submit event proposal	Y	Y	Y	Y	Y	User
R2.1	Generate payment slip	N	N	Y	Y	N	Event organizer, exhibitor, speaker or observer.
R2.2.1	Change status of event	Y	Y	Y	Y	Y	System
R2.2.2	Notify event organizer	N	Y	Y	Y	N	Event organizer, exhibitor, speaker or observer.
R3	Cancel an event	Y	Y	Y	Y	Y	Event Organizer
R4	Edit an event proposal	Y	Y	Y	Y	Y	Event Organizer
R5	View an event proposal	Y	Y	Y	N	Y	Event Organizer , NTTS Staff
R6	Evaluate an event proposal	Y	Y	Y	Y	Y	NTTS Staff
R6	Enter feedback	N	Y	Y	Y	N	NTTS Staff
R6	Acceptance decision	N	Y	Y	Y	N	NTTS Staff
R6	Provide feedback	N	Y	Y	Y	N	NTTS Staff
R7	Submit booth lease request	Y	Y	Y	Y	Y	Exhibitor
R7.1	Display a floor plan	N	N	N	Y	N	System
R7.2	Select Available booth	N	Y	Y	Y	N	Exhibitor
R7.3	Generate Summary and Total Payment Slip	N	Y	Y	Y	N	System
R7.3	Print payment slip	N	Y	Y	N	N	Exhibitor
R7.4	Change status of the request	Y	Y	Y	Y	Y	System
R7.4	Notify status change	N	Y	Y	Y	N	System
R8	Withdraw booth lease	N	Y	Y	Y	N	Exhibitor
R9	View Booth Lease Request	N	Y	Y	N	N	Exhibitor, NTTS Staff
R10	Evaluate an event proposal	Y	Y	Y	Y	Y	NTTS Staff
R10.1	Enter Decision	N	Y	Y	Y	N	NTTS Staff
R10.2	Enter Feedback	N	Y	Y	Y	N	NTTS Staff
R10.3	Change status of the request	N	Y	Y	Y	N	NTTS Staff
R10.3	Notify the exhibitor	N	Y	Y	Y	N	NTTS Staff
R10.4	Change status of booth	N	Y	Y	Y	N	NTTS Staff
R11	Register for an event	Y	Y	Y	Y	Y	Participant
R11.1	Select list of events	N	Y	Y	Y	N	Participant
R11.2	Register for one or more event	N	Y	Y	Y	N	Participant
R11.3	Generate Payment slip	N	Y	Y	Y	N	System
R11.4	Print payment slip	N	Y	Y	Y	N	Participant
R11.5	Change Registration Status	N	Y	Y	Y	N	System
R11.5	Notify the participant	N	Y	Y	Y	N	Sysem
R12	Cancel Registration	Y	Y	Y	Y	Y	Participant
R13	Specify floor plan	Y	Y	Y	Y	Y	NTTS Staff
R14	Allow Payment	Y	Y	Y	Y	Y	User

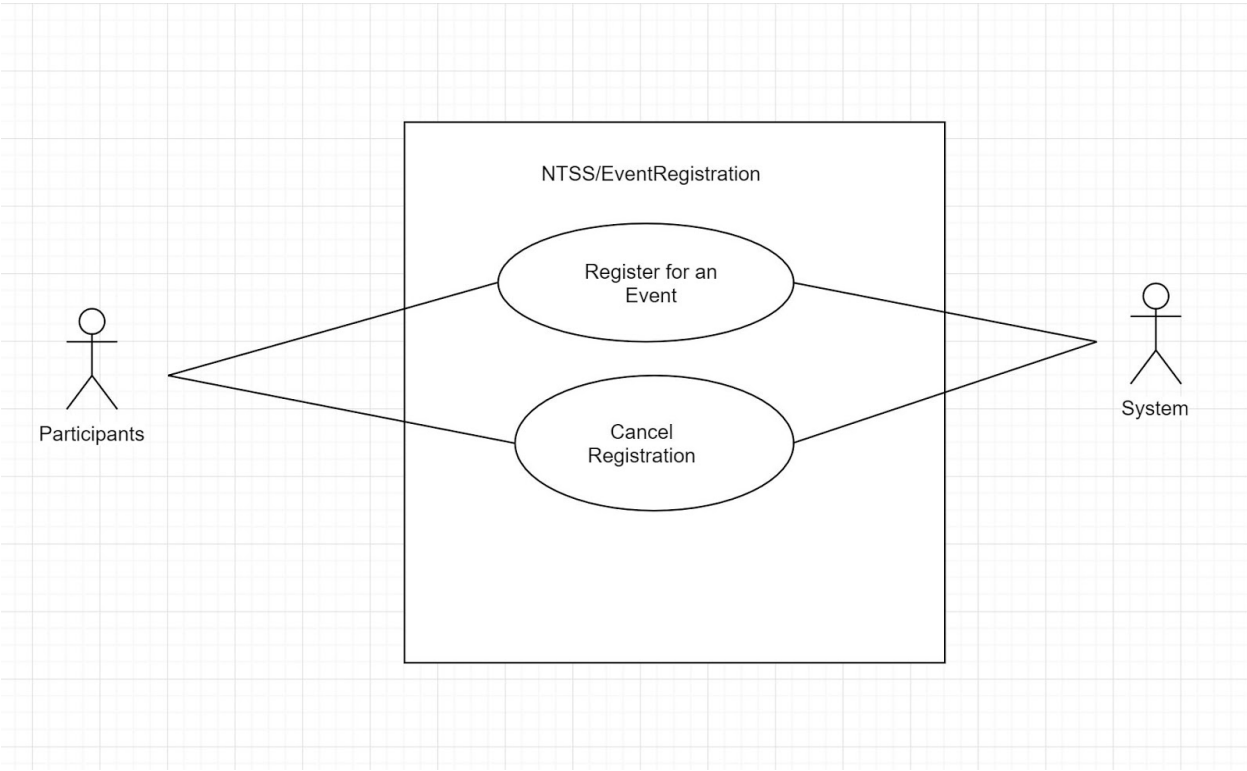
Abstract Use Case Sheet

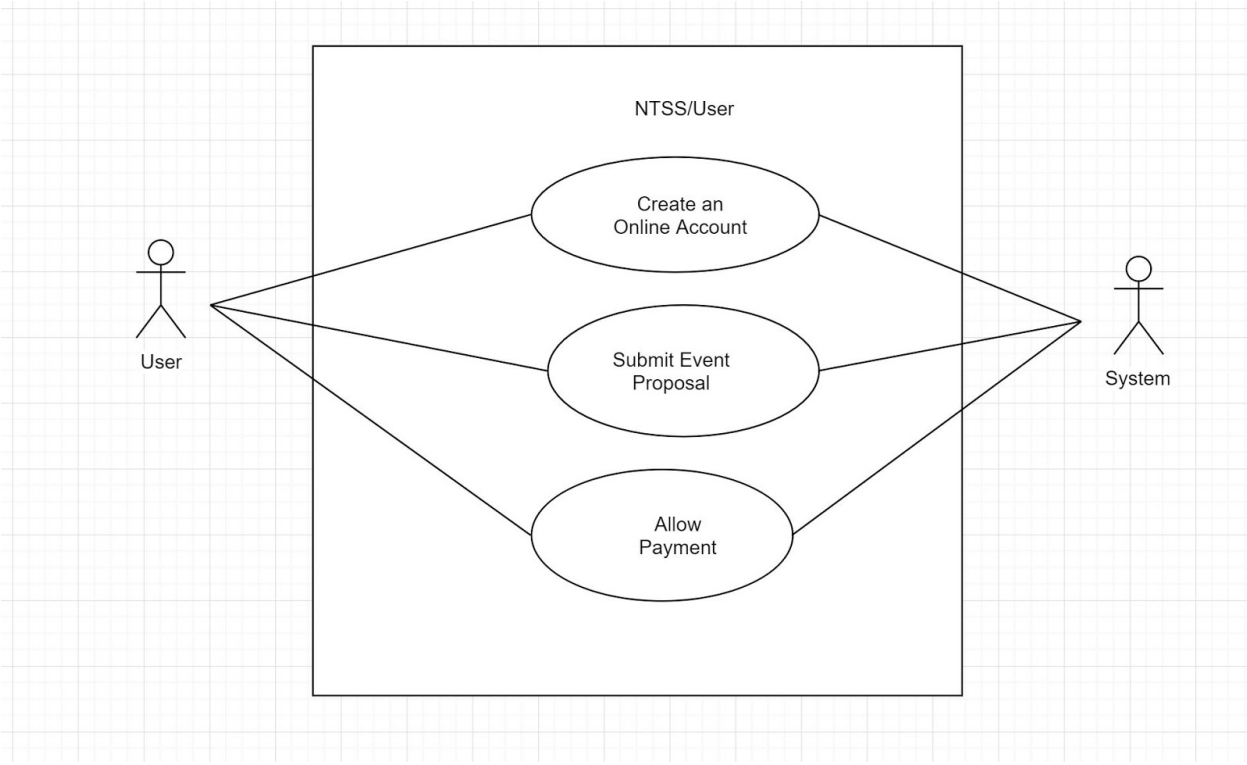
Use Case	VERB/NOUN PHRASE	USE CASE?
UC1	Create an Online Account	Y
UC2	Submit Event Proposal	Y
UC3	Change Status of Event	Y
UC4	Cancel an Event	Y
UC5	Edit an Event Proposal	Y
UC6	View an Event Proposal	Y
UC7	Evaluate an Event Proposal	Y
UC8	Submit Booth Lease Request	Y
UC9	Evaluate Booth Lease Request	Y
UC10	Change Status of the Request	Y
UC11	Register for an Event	Y
UC12	Cancel Registration	Y
UC13	Specify Floor Plan	Y
UC14	Allow Payment	Y

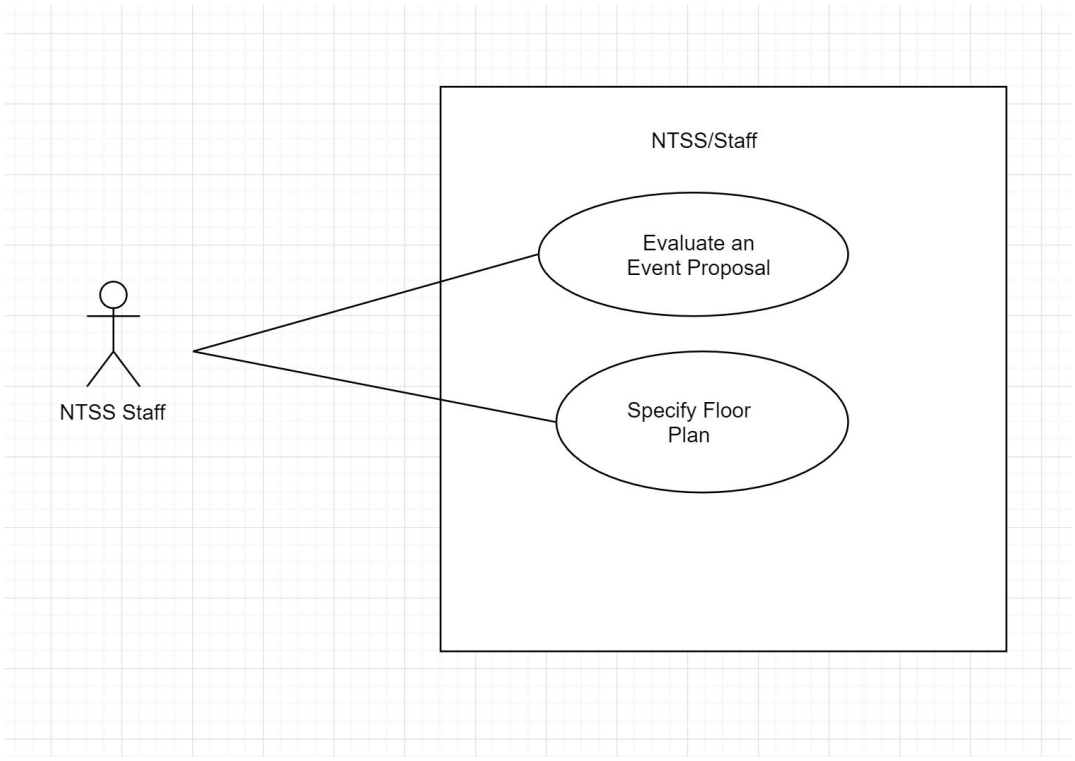
6. High Level Use Case

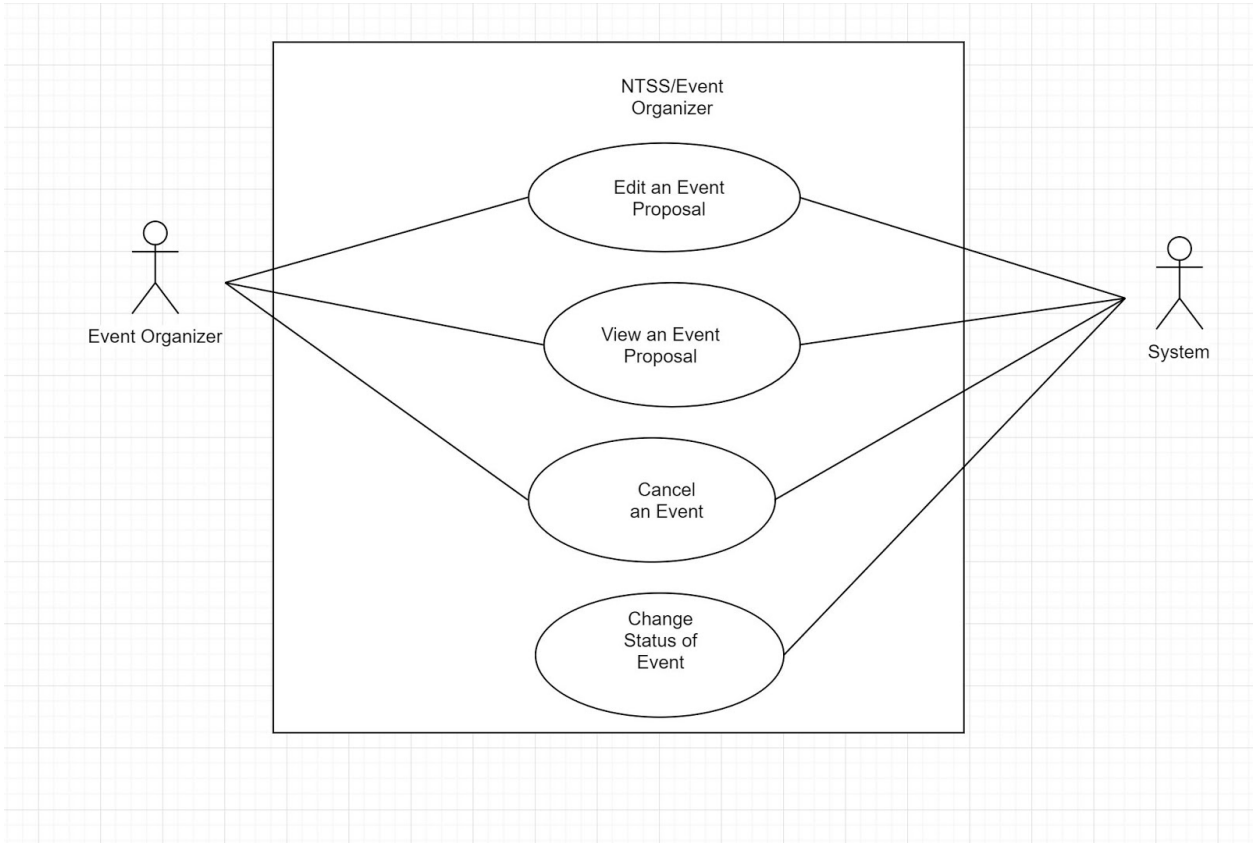
Use Case Number	Use Case	HIGH LEVEL USE CASE
UC1	Create an Online Account	TUCBW: User clicks on create user account button TUCEW: Account is created for the user.
UC2	Submit Event Proposal	TUCBW: User clicks on Submit Event proposal button TUCEW: User gets notification of Event proposal is submitted.
UC3	Change Status of an event	TUCBW: System clicks on change status of an event TUCEW: System gets notification that the status is changed.
UC4	Cancel an Event	TUCBW: User clicks on Cancel an Event proposal TUCEW: User gets notification of Event proposal is cancelled.
UC5	Edit an Event Proposal	TUCBW: User clicks on edit an Event proposal button TUCEW: User gets notification of Event proposal is edited.
UC6	View an Event Proposal	TUCBW: NTTS Staff clicks on View Event proposal button. TUCEW: NTTS Staff views the event proposal.
UC7	Evaluate an Event Proposal	TUCBW: NTTSS Staff clicks on Evaluate an Event proposal button. TUCEW: NTTS Staff completes evaluation of the proposal.
UC8	Submit Booth Lease Request	TUCBW: User clicks on Submit Booth lease request. TUCEW: User gets notification of Even proposal is submitted.
UC9	Evaluate Booth Lease Request	TUCBW: NTTS staff clicks on evaluate booth lease request button. TUCEW: NTTS staff finishes evaluating the booth lease request.
UC10	Change Status of the Request	TUCBW: NTTS staff clicks on change status of the request. TUCEW: NTTS staff finishes changing status of the request.
UC11	Register for an Event	TUCBW: Participant clicks on Register for an event TUCEW: Participant completes with registering an event.
UC12	Cancel Registration	TUCBW: Participant clicks on cancel registration. TUCEW: Participant gets notification of registration is cancelled.
UC13	Specify Floor Plan	TUCBW: NTTS staff clicks on specify floor plan. TUCEW: NTTS staff finishes with specifying the floor plan.
UC14	Allow Payment	TUCBW: User should click on Pay the payment. TUCEW: User gets notification that the payment is received.

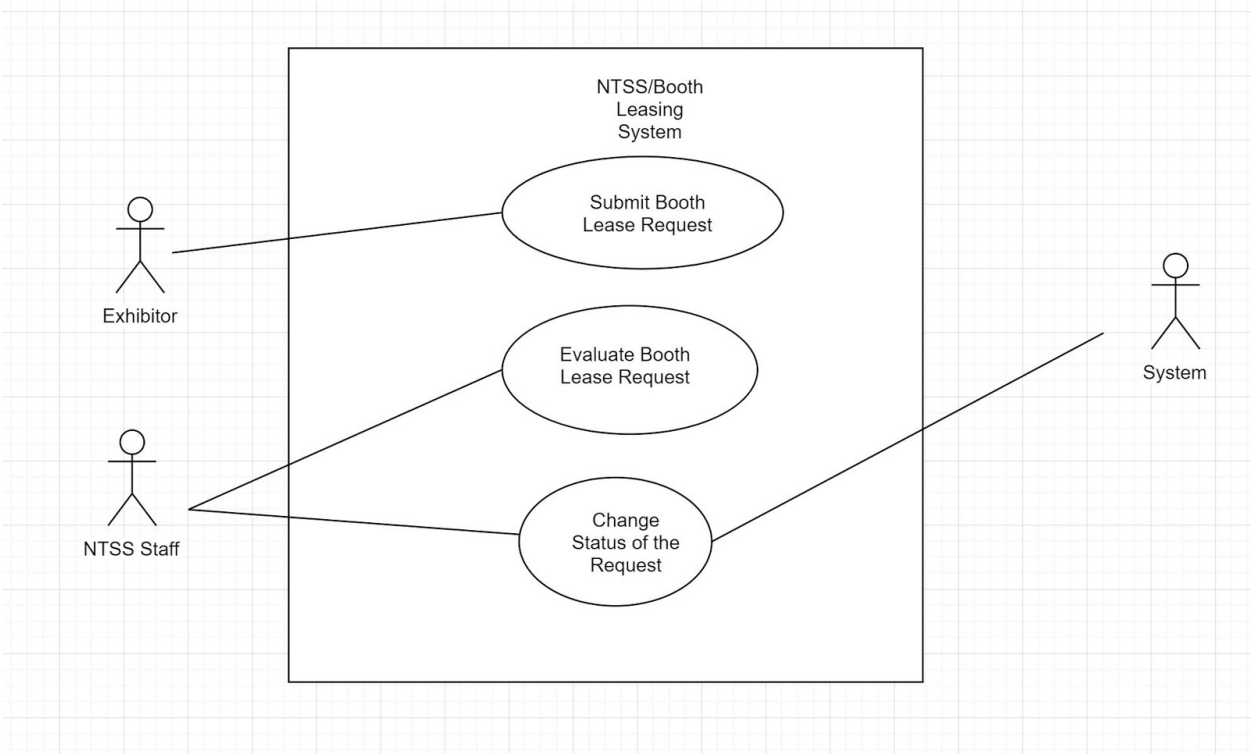
7. Use Case Diagram






NTSS/Staff
Evaluate an Event Proposal
Specify Floor Plan
NTSS Staff


NTSS/Event Organizer
Edit an Event Proposal
View an Event Proposal
Cancel an Event
Change Status of Event
Event Organizer
System


NTSS/Booth
Leasing
System
Submit Booth
Lease Request
Evaluate Booth
Lease Request
Change
Status of the
Request
Exhibitor
NTSS Staff
System

8. **Expanded Use Case**

Nontrivial steps are underlined.

UC1: Create an Online Account

Actor: User	System: Website
	0. The website displays the homepage.
1. TUCBW:User clicks the create account link on the homepage.	2. The website displays the form to input user details.
3. The user provides all the credentials and hits the create account button.	4. When account is created, the website emails the user with the temporary password
5. TUCEW:The user sees the login page with message saying check email for temporary password.	

UC2: LogOn

Actor: User	System: Website
	0. The website displays a homepage.
1. TUCBW: User clicks the Login link on the homepage.	2. The website displays the login page.
3. The user enters the user name and the password and clicks the Login button.	4a. If a user logs in for the first time, TUCCW Reset Password; 4b. If the user had already logged in before, the website displays the welcome page.
5. TUCEW: user sees the welcome page	

UC3: Submit an Event Proposal

Actor: User	System: Website
	0. The website displays a homepage.
1. TUCBW: User clicks the submit event proposal.	2. The website displays the event proposal details entry form.
3. The user enters all the details of the event and hits submit button.	4. The website sends event proposal submitted message back to user page.
5. TUCEW: user sees the the message saying event proposal is submitted.	

UC4: Evaluate an Event Proposal

Actor: User	System: Website
	0. The website displays a homepage.
1. TUCBW: NTTS Staff clicks the Evaluate event proposal link.	2. The website displays the all the list of event proposals that are pending to be evaluated.
3. NTTS Staff clicks on one event from the list of all the events.	4. The website displays the details of the event proposal to the user.
5. NTTS Staff evaluates the proposal and submits back whether the proposal is pending or completed.	6. The websites saves all the records changes and sends back record changes saved message back to the user.
7. TUCEW:NTTS Staff gets message saying record changes saved.	

9. **Scenarios**

Create Online Account

3. User fills in registration info and clicks submit button.
4.1 The SignUp UI sends the registration info to the RegisterUser Controller.
4.2 The RU Controller creates using registration info to a User object.
4.3 The RU Controller saves the User object through DBMgr.
4.4 The RU Controller creates a registration success message.
4.5 The RU Controller returns the message to the web page.
4.6 The system displays the registration successful message.

Login

3. User fills in the login info and clicks submit button.
4.1 The Login UI sends the login info to the LoginUser Controller.
4.2 The Login Controller creates using login info an User Object.
4.3 The LoginController checks the User object against through saved data in database using DbManager.
4.4 If user is logging in for the first time, he will be redirected to Change Password page.
4.5 The Login Controller creates a login success message.
4.6 The Login Controller returns the message to web page.
4.7 The system display the login successful message.

Submit an Event Proposal

3. User fills in Event Proposal info and clicks submit button.
4.1 The NewEvent UI sends the Event Proposal info to the NewEvent Controller.
4.2 The NE Controller creates using event proposal info to an Event object.
4.3 The NE Controller saves the Event object through DBMgr.
4.4 The NE Controller creates an Event Proposal success message.
4.5 The NE Controller returns the message to the web page.
4.6 The system displays the event proposal successful message.

Evaluate an Event Proposal

3. Admin User selects a event proposal form all Event proposal page.
4.1 The Event UI sends the EventID info to the AccessEvent Controller.
4.2 The AE Controller creates using Event info to an Event object.
4.3 The AE Controller fetches all attributes of Event Object through DBMgr.
4.4 The AE Controller creates Event proposal data.
4.5 The AE Controller returns the event proposal data to the web page
4.6 The system displays the event proposal info.
4.6 The Admin User check the data and confirms the Evaluation by clicking submit.
4.7 The Evaluate GUI sends the EventID to EventManger Controller.
4.8 The EM Controller creates using event info to an Event object.
4.9 The EM Controller updates through status of Event through DBMgr.
4.10 The EM Controller creates a creates an Event Proposal success message.

4.11 The EM Controller returns the message to web page.
4.12 The system displays the message and notifies the user.

10. **Scenarios Table**

Create Online Account

#	Subject	Subject Action	Other Data/Object	Object Acted Upon
3.	User	fills in	registration info	and clicks submit button
4.1	The SignUp UI	sends	the registration info	to the RegisterUser Controller
4.2	The RU Controller	creates using	registration info	to a User object
4.3	The RU Controller	saves	the User object	through DBMgr

4.4	The RU Controller	creates		a registration success message
4.5	The RU Controller	returns	the message	to the web page
4.6	The system	displays	the registration successful message	User

Login

#	Subject	Subject Action	Other Data/Object	Object Acted Upon
3.	User	fills in	the login info	and clicks submit button
4.1	The Login UI	sends	the login info	to the LoginUser Controller
4.2	The LoginController	creates using	login info	an User Object
4.3	The Login Controller	checks	the User object	against through saved data in database using DBMgr
4.4	The LoginController	creates		a login success message.
4.5	The Login Controller	checks		If the user is logging in for the first time
4.6	The Login Controller	redirects		The user to change password if user is logging in for the first time.
4.7	The Login Controller	returns	the message	to the web page

4.8	The system	display	the login successful message.	User

Submit an Event Proposal

#	Subject	Subject Action	Other Data/Object	Object Acted Upon
3.	User	fills in	Event Proposal info	and clicks submit button
4.1	The NewEvent UI	sends	the Event Proposal info	to the NewEvent Controller
4.2	The NE Controller	creates using	event proposal info to	an Event object
4.3	The NE Controller	saves	the Event object	through DBMgr
4.4	The NE Controller	creates	an Event Proposal success message.	
4.5	The NE Controller	returns	the message	to the web page
4.6	The system	displays	the event proposal successful message.	User

Evaluate an Event Proposal

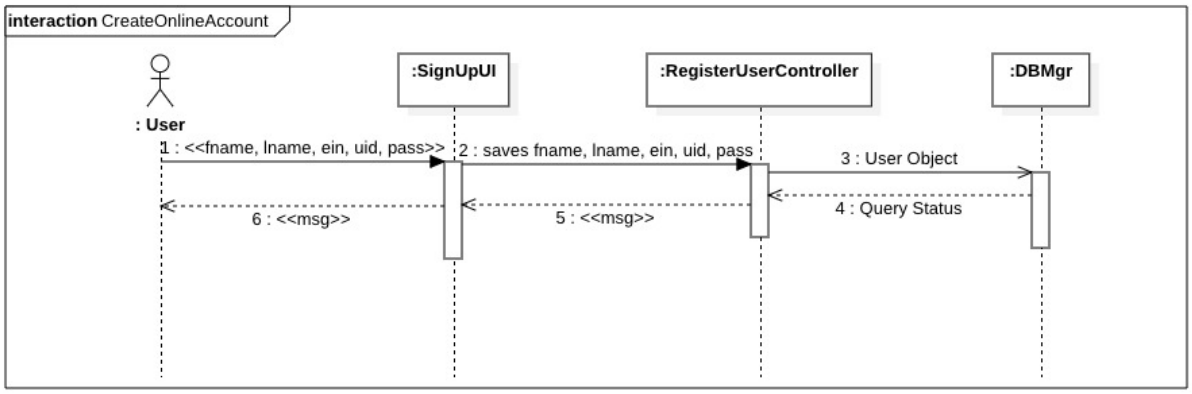
#	Subject	Subject Action	Other Data/Object	Object Acted Upon
3.	Admin User	selects a	event proposal form	Evaluate GUI

4.1	The Event UI	sends	the EventID info	to the AccessEvent Controller
4.2	The AE Controller	creates using	Event info to	an Event object
4.3	The AE Controller	fetches	all attributes of Event Object	through DBMgr
4.4	The AE Controller	creates	Event proposal data.	
4.5	The AE Controller	returns	the event proposal data to the web page	
4.6	The system	displays	the event proposal info	
4.6	The Admin User	check	the data and confirms the Evaluation by	clicking submit.
4.7	Evaluate GUI	sends	the EventID and confirm bool to	EventManager Controller
4.8	The EM Controller	creates	using event info to	an Event object
4.9	The EM Controller	updates	status of Event	through DBMgr
4.10	The EM Controller	creates	an Event Proposal success message.	
4.11	The EM Controller	returns	the message	to web page

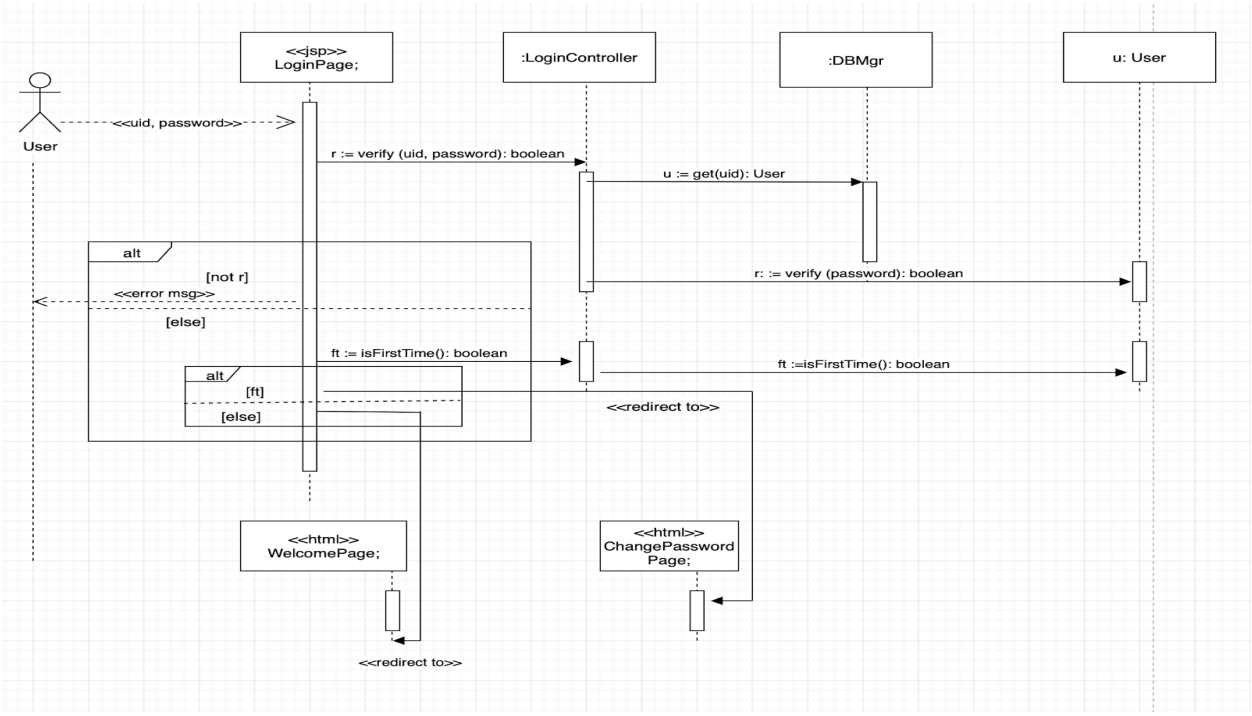
4.12	The system	displays	the message and notifies the user.	Admin User

11. **Informal Sequence Diagram**

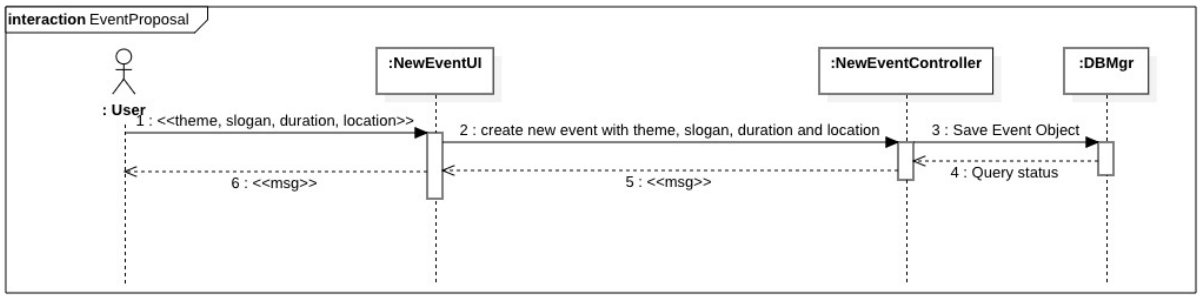
Create Online Account:



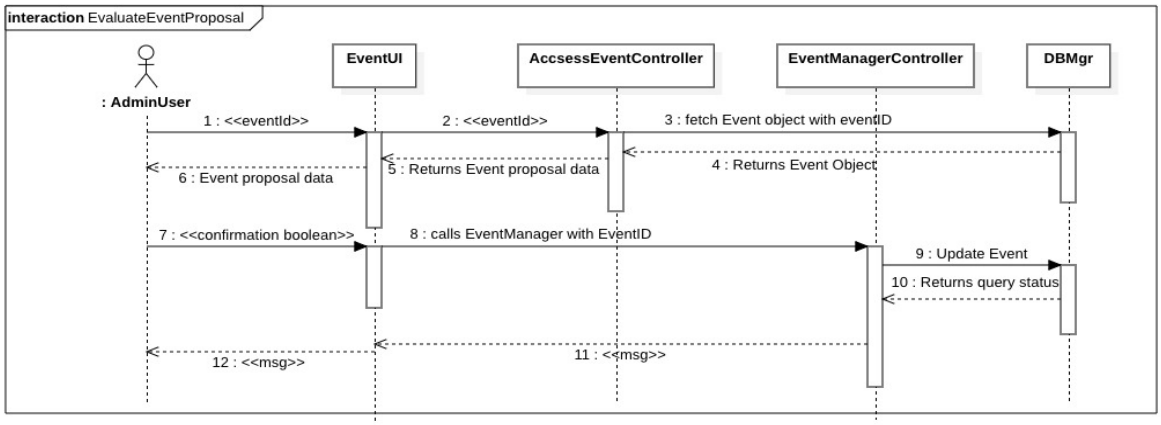
Login:



Event Proposal:

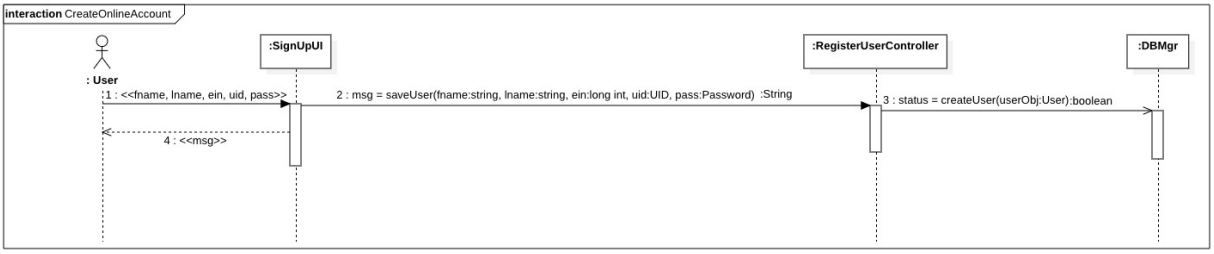


Evaluate Event Proposal:

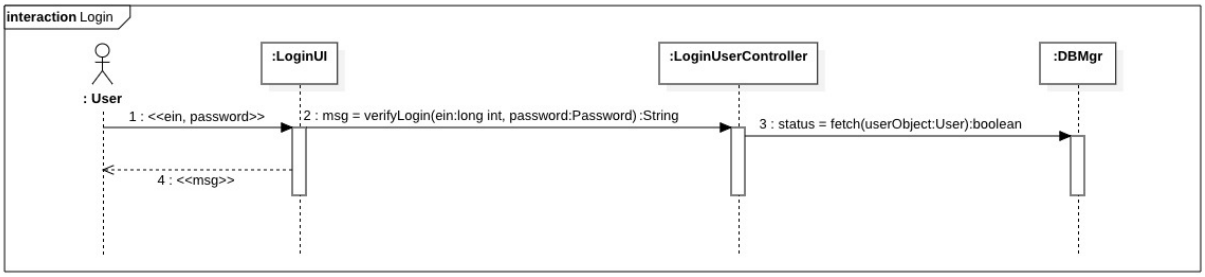


12. Design Sequence Diagram

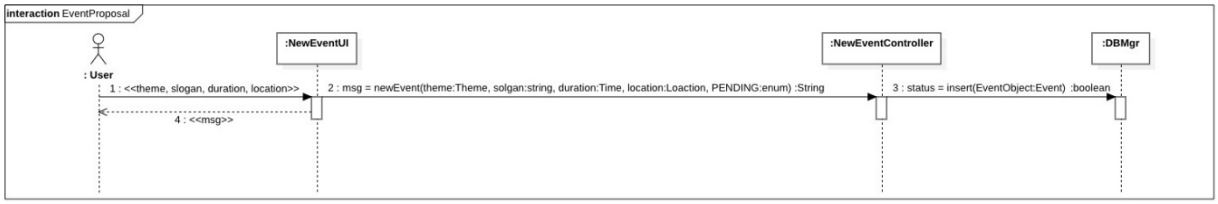
Create Online Account:



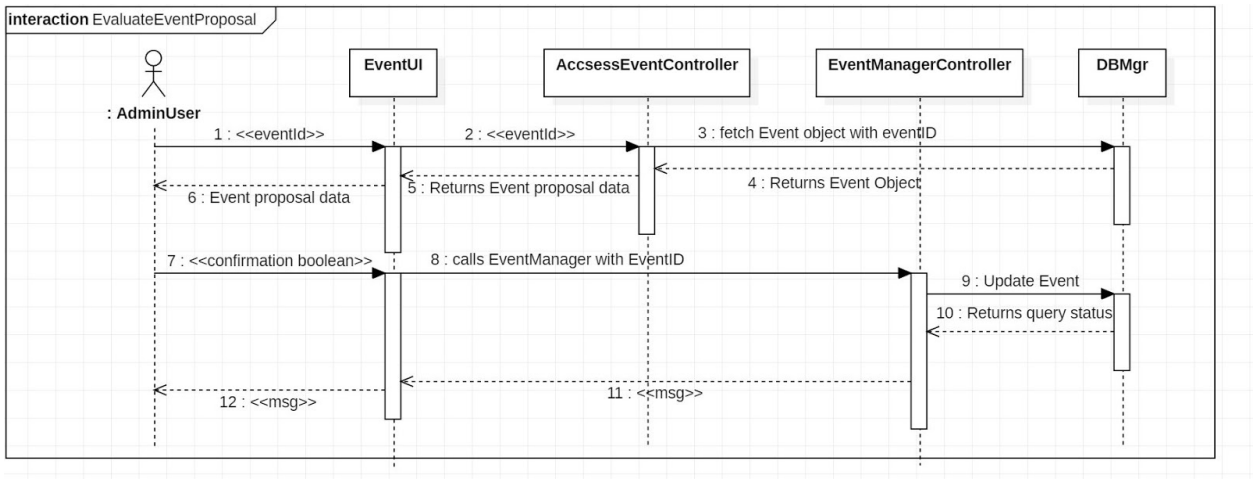
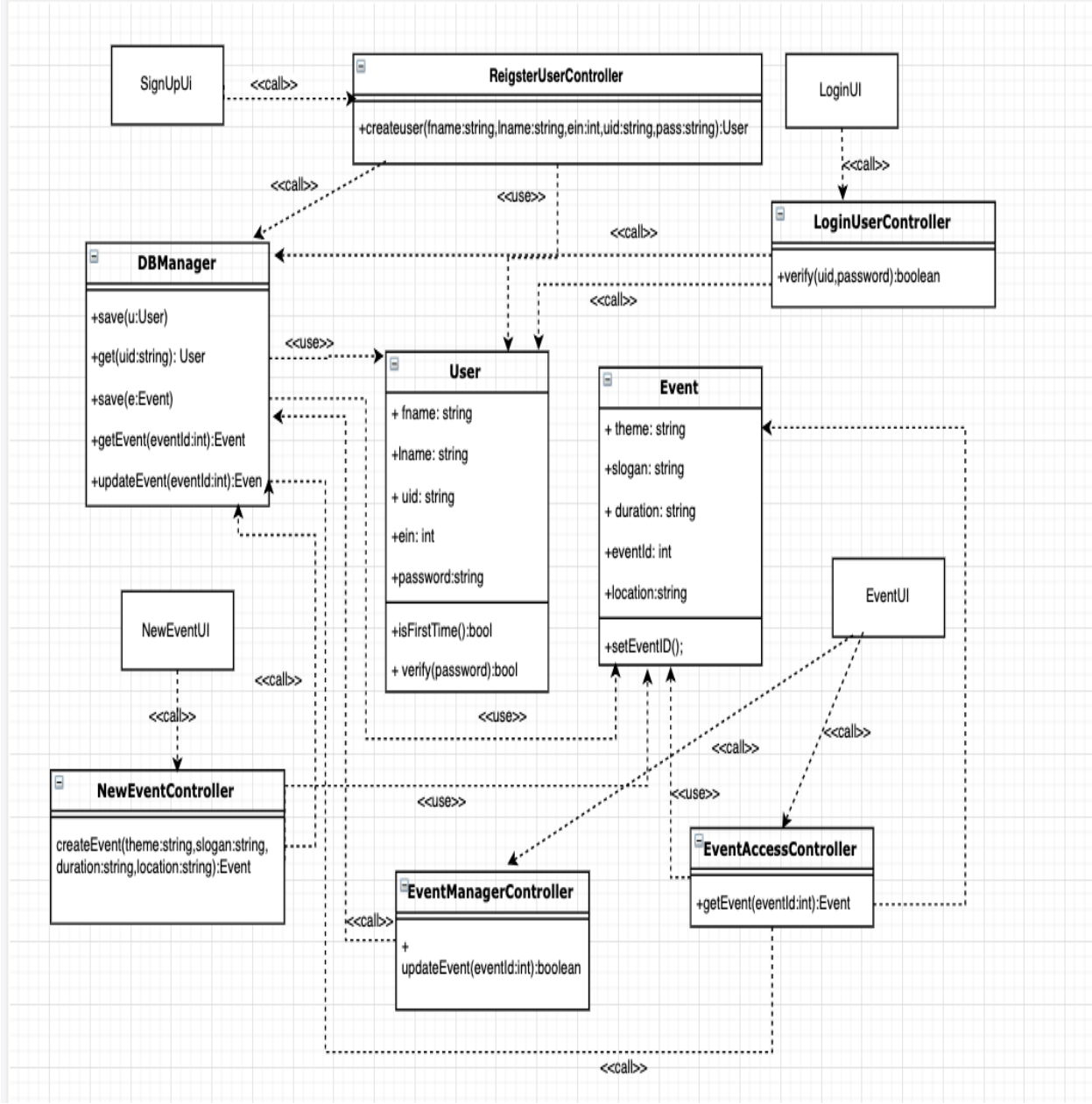
Login:



Event Proposal:



Evaluate an Event Proposal:



13. **Design Class Diagram**